

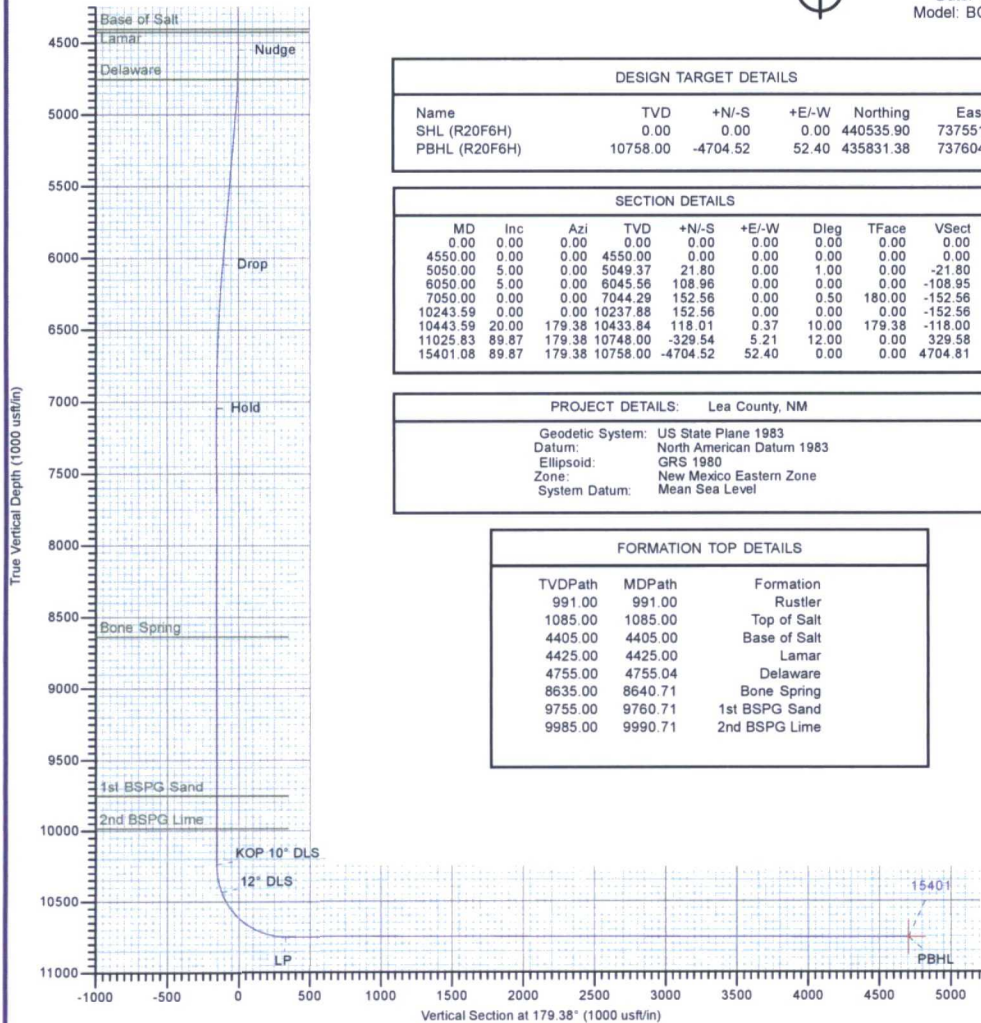


Project: Lea County, NM (NAD-83)
Site: Rebel 20 Fed
Well: 6Y
Wellbore: OH
Design: ADP Plan #1 Rev



Azimuths to Grid North
True North: -0.34°
Magnetic North: 6.93°

Magnetic Field
Strength: 48131.7snT
Dip Angle: 60.09°
Date: 1/28/2016
Model: BGGM2015

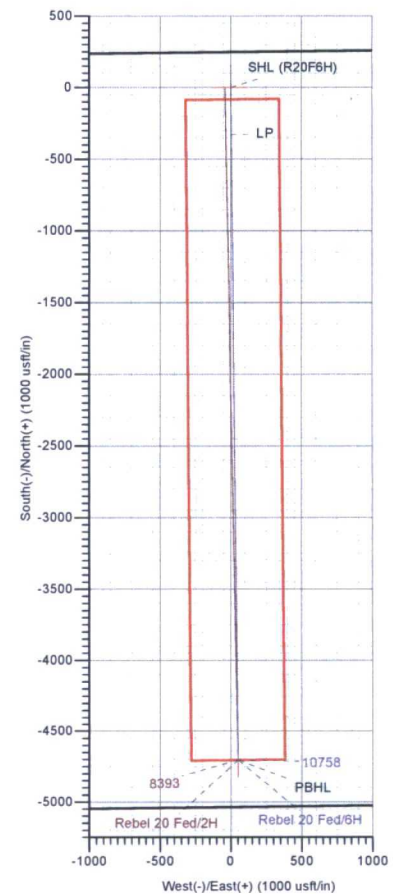


DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
SHL (R20F6H)	0.00	0.00	0.00	440535.90	737551.89
PBHL (R20F6H)	10758.00	-4704.52	52.40	435831.38	737604.29

SECTION DETAILS								
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4550.00	0.00	0.00	4550.00	0.00	0.00	0.00	0.00	0.00
5050.00	5.00	0.00	5049.37	21.80	0.00	1.00	0.00	-21.80
6050.00	5.00	0.00	6045.56	108.96	0.00	0.00	0.00	-108.95
7050.00	0.00	0.00	7044.29	152.56	0.00	0.50	180.00	-152.56
10243.59	0.00	0.00	10237.88	152.56	0.00	0.00	0.00	-152.56
10443.59	20.00	179.38	10433.84	118.01	0.37	10.00	179.38	-118.00
11025.83	89.87	179.38	10748.00	-329.54	5.21	12.00	0.00	329.58
15401.08	89.87	179.38	10758.00	-4704.52	52.40	0.00	0.00	4704.81

PROJECT DETAILS:		Lea County, NM
Geodetic System:	US State Plane 1983	
Datum:	North American Datum 1983	
Ellipsoid:	GRS 1980	
Zone:	New Mexico Eastern Zone	
System Datum:	Mean Sea Level	

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
991.00	991.00	Rustler
1085.00	1085.00	Top of Salt
4405.00	4405.00	Base of Salt
4425.00	4425.00	Lamar
4755.00	4755.04	Delaware
8635.00	8640.71	Bone Spring
9755.00	9760.71	1st BSPG Sand
9985.00	9990.71	2nd BSPG Lime



DEVON ENERGY

Lea County, NM (NAD-83)

Rebel 20 Fed

6Y

OH

Plan: ADP Plan #1 Rev

Standard Planning Report

24 March, 2016

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 6Y
Company:	DEVON ENERGY	TVD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Site:	Rebel 20 Fed	North Reference:	Grid
Well:	6Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	ADP Plan #1 Rev		

Project	Lea County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Rebel 20 Fed		
Site Position:		Northing:	440,550.57 usft
From:	Map	Easting:	738,886.46 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 12' 34.333 N
		Longitude:	103° 41' 40.571 W
		Grid Convergence:	0.34 °

Well	6Y		
Well Position	+N/-S	-14.67 usft	Northing: 440,535.90 usft
	+E/-W	-1,334.57 usft	Easting: 737,551.89 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,587.30 usft
		Latitude:	32° 12' 34.266 N
		Longitude:	103° 41' 56.105 W
		Ground Level:	3,563.80 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2015	1/28/2016	7.27
			Dip Angle (°)
			60.09
			Field Strength (nT)
			48,132

Design	ADP Plan #1 Rev		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			179.38

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,550.00	0.00	0.00	4,550.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,050.00	5.00	0.00	5,049.37	21.80	0.00	1.00	1.00	0.00	0.00	
6,050.00	5.00	0.00	6,045.56	108.96	0.00	0.00	0.00	0.00	0.00	
7,050.00	0.00	0.00	7,044.29	152.56	0.00	0.50	-0.50	0.00	180.00	
10,243.59	0.00	0.00	10,237.88	152.56	0.00	0.00	0.00	0.00	0.00	
10,443.59	20.00	179.38	10,433.84	118.01	0.37	10.00	10.00	0.00	179.38	
11,025.83	89.87	179.38	10,748.00	-329.54	5.21	12.00	12.00	0.00	0.00	
15,401.08	89.87	179.38	10,758.00	-4,704.52	52.40	0.00	0.00	0.00	0.00	PBHL (R20F6H)

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Single User Db
Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)
Site: Rebel 20 Fed
Well: 6Y
Wellbore: OH
Design: ADP Plan #1 Rev

Local Co-ordinate Reference: Well 6Y
TVD Reference: 3563.8' GE + 23.5' KB @ 3587.30usft
MD Reference: 3563.8' GE + 23.5' KB @ 3587.30usft
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (R20F6H)									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
991.00	0.00	0.00	991.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,085.00	0.00	0.00	1,085.00	0.00	0.00	0.00	0.00	0.00	0.00
Top of Salt									
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,405.00	0.00	0.00	4,405.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt									
4,425.00	0.00	0.00	4,425.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 6Y
Company:	DEVON ENERGY	TVD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Site:	Rebel 20 Fed	North Reference:	Grid
Well:	6Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	ADP Plan #1 Rev		

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)
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,550.00	0.00	0.00	4,550.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge									
4,600.00	0.50	0.00	4,600.00	0.22	0.00	-0.22	1.00	1.00	0.00
4,700.00	1.50	0.00	4,699.98	1.96	0.00	-1.96	1.00	1.00	0.00
4,755.04	2.05	0.00	4,755.00	3.67	0.00	-3.67	1.00	1.00	0.00
Delaware									
4,800.00	2.50	0.00	4,799.92	5.45	0.00	-5.45	1.00	1.00	0.00
4,900.00	3.50	0.00	4,899.78	10.69	0.00	-10.69	1.00	1.00	0.00
5,000.00	4.50	0.00	4,999.54	17.66	0.00	-17.66	1.00	1.00	0.00
5,050.00	5.00	0.00	5,049.37	21.80	0.00	-21.80	1.00	1.00	0.00
Hold									
5,100.00	5.00	0.00	5,099.18	26.16	0.00	-26.16	0.00	0.00	0.00
5,200.00	5.00	0.00	5,198.79	34.88	0.00	-34.87	0.00	0.00	0.00
5,300.00	5.00	0.00	5,298.41	43.59	0.00	-43.59	0.00	0.00	0.00
5,400.00	5.00	0.00	5,398.03	52.31	0.00	-52.30	0.00	0.00	0.00
5,500.00	5.00	0.00	5,497.65	61.02	0.00	-61.02	0.00	0.00	0.00
5,600.00	5.00	0.00	5,597.27	69.74	0.00	-69.73	0.00	0.00	0.00
5,700.00	5.00	0.00	5,696.89	78.45	0.00	-78.45	0.00	0.00	0.00
5,800.00	5.00	0.00	5,796.51	87.17	0.00	-87.16	0.00	0.00	0.00
5,900.00	5.00	0.00	5,896.13	95.89	0.00	-95.88	0.00	0.00	0.00
6,000.00	5.00	0.00	5,995.75	104.60	0.00	-104.59	0.00	0.00	0.00
6,050.00	5.00	0.00	6,045.56	108.96	0.00	-108.95	0.00	0.00	0.00
Drop									
6,100.00	4.75	0.00	6,095.38	113.21	0.00	-113.20	0.50	-0.50	0.00
6,200.00	4.25	0.00	6,195.07	121.05	0.00	-121.05	0.50	-0.50	0.00
6,300.00	3.75	0.00	6,294.83	128.03	0.00	-128.02	0.50	-0.50	0.00
6,400.00	3.25	0.00	6,394.64	134.13	0.00	-134.13	0.50	-0.50	0.00
6,500.00	2.75	0.00	6,494.50	139.37	0.00	-139.36	0.50	-0.50	0.00
6,600.00	2.25	0.00	6,594.41	143.73	0.00	-143.72	0.50	-0.50	0.00
6,700.00	1.75	0.00	6,694.35	147.22	0.00	-147.21	0.50	-0.50	0.00
6,800.00	1.25	0.00	6,794.31	149.84	0.00	-149.83	0.50	-0.50	0.00
6,900.00	0.75	0.00	6,894.30	151.58	0.00	-151.57	0.50	-0.50	0.00
7,000.00	0.25	0.00	6,994.29	152.45	0.00	-152.45	0.50	-0.50	0.00
7,050.00	0.00	0.00	7,044.29	152.56	0.00	-152.56	0.50	-0.50	0.00
Hold									
7,100.00	0.00	0.00	7,094.29	152.56	0.00	-152.56	0.00	0.00	0.00
7,200.00	0.00	0.00	7,194.29	152.56	0.00	-152.56	0.00	0.00	0.00
7,300.00	0.00	0.00	7,294.29	152.56	0.00	-152.56	0.00	0.00	0.00
7,400.00	0.00	0.00	7,394.29	152.56	0.00	-152.56	0.00	0.00	0.00
7,500.00	0.00	0.00	7,494.29	152.56	0.00	-152.56	0.00	0.00	0.00
7,600.00	0.00	0.00	7,594.29	152.56	0.00	-152.56	0.00	0.00	0.00
7,700.00	0.00	0.00	7,694.29	152.56	0.00	-152.56	0.00	0.00	0.00
7,800.00	0.00	0.00	7,794.29	152.56	0.00	-152.56	0.00	0.00	0.00
7,900.00	0.00	0.00	7,894.29	152.56	0.00	-152.56	0.00	0.00	0.00
8,000.00	0.00	0.00	7,994.29	152.56	0.00	-152.56	0.00	0.00	0.00
8,100.00	0.00	0.00	8,094.29	152.56	0.00	-152.56	0.00	0.00	0.00
8,200.00	0.00	0.00	8,194.29	152.56	0.00	-152.56	0.00	0.00	0.00
8,300.00	0.00	0.00	8,294.29	152.56	0.00	-152.56	0.00	0.00	0.00
8,400.00	0.00	0.00	8,394.29	152.56	0.00	-152.56	0.00	0.00	0.00
8,500.00	0.00	0.00	8,494.29	152.56	0.00	-152.56	0.00	0.00	0.00
8,600.00	0.00	0.00	8,594.29	152.56	0.00	-152.56	0.00	0.00	0.00
8,640.71	0.00	0.00	8,635.00	152.56	0.00	-152.56	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database: EDM 5000.1 Single User Db
Company: DEVON ENERGY
Project: Lea County, NM (NAD-83)
Site: Rebel 20 Fed
Well: 6Y
Wellbore: OH
Design: ADP Plan #1 Rev

Local Co-ordinate Reference: Well 6Y
TVD Reference: 3563.8' GE + 23.5' KB @ 3587.30usft
MD Reference: 3563.8' GE + 23.5' KB @ 3587.30usft
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)
Bone Spring									
8,700.00	0.00	0.00	8,694.29	152.56	0.00	-152.56	0.00	0.00	0.00
8,800.00	0.00	0.00	8,794.29	152.56	0.00	-152.56	0.00	0.00	0.00
8,900.00	0.00	0.00	8,894.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,000.00	0.00	0.00	8,994.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,100.00	0.00	0.00	9,094.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,200.00	0.00	0.00	9,194.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,300.00	0.00	0.00	9,294.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,400.00	0.00	0.00	9,394.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,500.00	0.00	0.00	9,494.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,600.00	0.00	0.00	9,594.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,700.00	0.00	0.00	9,694.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,760.71	0.00	0.00	9,755.00	152.56	0.00	-152.56	0.00	0.00	0.00
1st BSPG Sand									
9,800.00	0.00	0.00	9,794.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,900.00	0.00	0.00	9,894.29	152.56	0.00	-152.56	0.00	0.00	0.00
9,990.71	0.00	0.00	9,985.00	152.56	0.00	-152.56	0.00	0.00	0.00
2nd BSPG Lime									
10,000.00	0.00	0.00	9,994.29	152.56	0.00	-152.56	0.00	0.00	0.00
10,100.00	0.00	0.00	10,094.29	152.56	0.00	-152.56	0.00	0.00	0.00
10,200.00	0.00	0.00	10,194.29	152.56	0.00	-152.56	0.00	0.00	0.00
10,243.59	0.00	0.00	10,237.88	152.56	0.00	-152.56	0.00	0.00	0.00
KOP 10° DLS									
10,250.00	0.64	179.38	10,244.29	152.53	0.00	-152.52	10.00	10.00	0.00
10,300.00	5.64	179.38	10,294.20	149.79	0.03	-149.78	10.00	10.00	0.00
10,350.00	10.64	179.38	10,343.68	142.71	0.11	-142.70	10.00	10.00	0.00
10,400.00	15.64	179.38	10,392.36	131.35	0.23	-131.34	10.00	10.00	0.00
10,443.59	20.00	179.38	10,433.84	118.01	0.37	-118.00	10.00	10.00	0.00
12° DLS									
10,450.00	20.77	179.38	10,439.85	115.78	0.40	-115.77	12.00	12.00	0.00
10,475.00	23.77	179.38	10,462.99	106.31	0.50	-106.30	12.00	12.00	0.00
10,500.00	26.77	179.38	10,485.59	95.64	0.62	-95.62	12.00	12.00	0.00
10,525.00	29.77	179.38	10,507.61	83.80	0.74	-83.79	12.00	12.00	0.00
10,550.00	32.77	179.38	10,528.97	70.82	0.88	-70.81	12.00	12.00	0.00
10,575.00	35.77	179.38	10,549.63	56.75	1.04	-56.73	12.00	12.00	0.00
10,600.00	38.77	179.38	10,569.52	41.61	1.20	-41.60	12.00	12.00	0.00
10,625.00	41.77	179.38	10,588.60	25.46	1.37	-25.44	12.00	12.00	0.00
10,650.00	44.77	179.38	10,606.80	8.32	1.56	-8.31	12.00	12.00	0.00
10,675.00	47.77	179.38	10,624.08	-9.74	1.75	9.76	12.00	12.00	0.00
10,700.00	50.77	179.38	10,640.39	-28.68	1.96	28.70	12.00	12.00	0.00
10,725.00	53.77	179.38	10,655.69	-48.45	2.17	48.47	12.00	12.00	0.00
10,750.00	56.77	179.38	10,669.93	-68.99	2.39	69.01	12.00	12.00	0.00
10,775.00	59.77	179.38	10,683.07	-90.25	2.62	90.27	12.00	12.00	0.00
10,800.00	62.77	179.38	10,695.09	-112.17	2.86	112.19	12.00	12.00	0.00
10,825.00	65.77	179.38	10,705.94	-134.69	3.10	134.71	12.00	12.00	0.00
10,850.00	68.77	179.38	10,715.60	-157.74	3.35	157.77	12.00	12.00	0.00
10,875.00	71.77	179.38	10,724.04	-181.27	3.61	181.30	12.00	12.00	0.00
10,900.00	74.77	179.38	10,731.24	-205.21	3.86	205.24	12.00	12.00	0.00
10,925.00	77.77	179.38	10,737.17	-229.49	4.13	229.52	12.00	12.00	0.00
10,950.00	80.77	179.38	10,741.82	-254.05	4.39	254.08	12.00	12.00	0.00
10,975.00	83.77	179.38	10,745.19	-278.82	4.66	278.85	12.00	12.00	0.00
11,000.00	86.77	179.38	10,747.25	-303.73	4.93	303.76	12.00	12.00	0.00
11,025.83	89.87	179.38	10,748.00	-329.54	5.21	329.58	12.00	12.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 6Y
Company:	DEVON ENERGY	TVD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Site:	Rebel 20 Fed	North Reference:	Grid
Well:	6Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	ADP Plan #1 Rev		

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)
LP									
11,100.00	89.87	179.38	10,748.17	-403.71	6.01	403.75	0.00	0.00	0.00
11,200.00	89.87	179.38	10,748.40	-503.70	7.08	503.75	0.00	0.00	0.00
11,300.00	89.87	179.38	10,748.63	-603.69	8.16	603.75	0.00	0.00	0.00
11,400.00	89.87	179.38	10,748.86	-703.69	9.24	703.75	0.00	0.00	0.00
11,500.00	89.87	179.38	10,749.09	-803.68	10.32	803.75	0.00	0.00	0.00
11,600.00	89.87	179.38	10,749.32	-903.67	11.40	903.75	0.00	0.00	0.00
11,700.00	89.87	179.38	10,749.54	-1,003.67	12.48	1,003.75	0.00	0.00	0.00
11,800.00	89.87	179.38	10,749.77	-1,103.66	13.56	1,103.74	0.00	0.00	0.00
11,900.00	89.87	179.38	10,750.00	-1,203.66	14.64	1,203.74	0.00	0.00	0.00
12,000.00	89.87	179.38	10,750.23	-1,303.65	15.71	1,303.74	0.00	0.00	0.00
12,100.00	89.87	179.38	10,750.46	-1,403.64	16.79	1,403.74	0.00	0.00	0.00
12,200.00	89.87	179.38	10,750.69	-1,503.64	17.87	1,503.74	0.00	0.00	0.00
12,300.00	89.87	179.38	10,750.92	-1,603.63	18.95	1,603.74	0.00	0.00	0.00
12,400.00	89.87	179.38	10,751.14	-1,703.63	20.03	1,703.74	0.00	0.00	0.00
12,500.00	89.87	179.38	10,751.37	-1,803.62	21.11	1,803.74	0.00	0.00	0.00
12,600.00	89.87	179.38	10,751.60	-1,903.61	22.19	1,903.74	0.00	0.00	0.00
12,700.00	89.87	179.38	10,751.83	-2,003.61	23.26	2,003.74	0.00	0.00	0.00
12,800.00	89.87	179.38	10,752.06	-2,103.60	24.34	2,103.74	0.00	0.00	0.00
12,900.00	89.87	179.38	10,752.29	-2,203.60	25.42	2,203.74	0.00	0.00	0.00
13,000.00	89.87	179.38	10,752.51	-2,303.59	26.50	2,303.74	0.00	0.00	0.00
13,100.00	89.87	179.38	10,752.74	-2,403.58	27.58	2,403.74	0.00	0.00	0.00
13,200.00	89.87	179.38	10,752.97	-2,503.58	28.66	2,503.74	0.00	0.00	0.00
13,300.00	89.87	179.38	10,753.20	-2,603.57	29.74	2,603.74	0.00	0.00	0.00
13,400.00	89.87	179.38	10,753.43	-2,703.57	30.82	2,703.74	0.00	0.00	0.00
13,500.00	89.87	179.38	10,753.66	-2,803.56	31.89	2,803.74	0.00	0.00	0.00
13,600.00	89.87	179.38	10,753.89	-2,903.55	32.97	2,903.74	0.00	0.00	0.00
13,700.00	89.87	179.38	10,754.11	-3,003.55	34.05	3,003.74	0.00	0.00	0.00
13,800.00	89.87	179.38	10,754.34	-3,103.54	35.13	3,103.74	0.00	0.00	0.00
13,900.00	89.87	179.38	10,754.57	-3,203.54	36.21	3,203.74	0.00	0.00	0.00
14,000.00	89.87	179.38	10,754.80	-3,303.53	37.29	3,303.74	0.00	0.00	0.00
14,100.00	89.87	179.38	10,755.03	-3,403.52	38.37	3,403.74	0.00	0.00	0.00
14,200.00	89.87	179.38	10,755.26	-3,503.52	39.44	3,503.74	0.00	0.00	0.00
14,300.00	89.87	179.38	10,755.48	-3,603.51	40.52	3,603.74	0.00	0.00	0.00
14,400.00	89.87	179.38	10,755.71	-3,703.50	41.60	3,703.74	0.00	0.00	0.00
14,500.00	89.87	179.38	10,755.94	-3,803.50	42.68	3,803.74	0.00	0.00	0.00
14,600.00	89.87	179.38	10,756.17	-3,903.49	43.76	3,903.74	0.00	0.00	0.00
14,700.00	89.87	179.38	10,756.40	-4,003.49	44.84	4,003.74	0.00	0.00	0.00
14,800.00	89.87	179.38	10,756.63	-4,103.48	45.92	4,103.74	0.00	0.00	0.00
14,900.00	89.87	179.38	10,756.86	-4,203.47	47.00	4,203.74	0.00	0.00	0.00
15,000.00	89.87	179.38	10,757.08	-4,303.47	48.07	4,303.74	0.00	0.00	0.00
15,100.00	89.87	179.38	10,757.31	-4,403.46	49.15	4,403.74	0.00	0.00	0.00
15,200.00	89.87	179.38	10,757.54	-4,503.46	50.23	4,503.74	0.00	0.00	0.00
15,300.00	89.87	179.38	10,757.77	-4,603.45	51.31	4,603.74	0.00	0.00	0.00
15,401.08	89.87	179.38	10,758.00	-4,704.52	52.40	4,704.81	0.00	0.00	0.00
TD - PBHL (R20F6H)									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 6Y
Company:	DEVON ENERGY	TVD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Site:	Rebel 20 Fed	North Reference:	Grid
Well:	6Y	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	ADP Plan #1 Rev		

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
SHL (R20F6H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	440,535.90	737,551.89	32° 12' 34.266 N	103° 41' 56.105 W
PBHL (R20F6H) - plan hits target center - Point	0.00	0.00	10,758.00	-4,704.52	52.40	435,831.38	737,604.29	32° 11' 47.709 N	103° 41' 55.818 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
991.00	991.00	Rustler		0.00	
1,085.00	1,085.00	Top of Salt		0.00	
4,405.00	4,405.00	Base of Salt		0.00	
4,425.00	4,425.00	Lamar		0.00	
4,755.04	4,755.00	Delaware		0.00	
8,640.71	8,635.00	Bone Spring		0.00	
9,760.71	9,755.00	1st BSPG Sand		0.00	
9,990.71	9,985.00	2nd BSPG Lime		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,550.00	4,550.00	0.00	0.00	Nudge
5,050.00	5,049.37	21.80	0.00	Hold
6,050.00	6,045.56	108.96	0.00	Drop
7,050.00	7,044.29	152.56	0.00	Hold
10,243.59	10,237.88	152.56	0.00	KOP 10° DLS
10,443.59	10,433.84	118.01	0.37	12° DLS
11,025.83	10,748.00	-329.54	5.21	LP
15,401.08	10,758.00	-4,704.52	52.40	TD

DEVON ENERGY

Lea County, NM (NAD-83)

Rebel 20 Fed

6Y

OH

ADP Plan #1 Rev

Anticollision Report

24 March, 2016

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6Y
Project:	Lea County, NM (NAD-83)	TVD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Reference Site:	Rebel 20 Fed	MD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6Y	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	ADP Plan #1 Rev	Offset TVD Reference:	Offset Datum

Reference	ADP Plan #1 Rev		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Elliptical Conic
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	3/24/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	15,401.08	ADP Plan #1 Rev (OH)	LEAM MWD-ADJ	MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Rebel 20 Fed						
2H - OH - Plan #1	4,500.00	4,500.30	39.99	20.04	2.004 CC	
2H - OH - Plan #1	4,800.00	4,800.22	40.42	19.13	1.898 ES, SF	

Offset Design												
Rebel 20 Fed - 2H - OH - Plan #1												
Survey Program: 0-LEAM MWD-ADJ												
Offset Site Error: 0.00 usft												
Offset Well Error: 0.00 usft												
Reference	Offset	Semi Major Axis		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
												Warning
0.00	0.00	0.30	0.30	0.00	0.00	-90.64	-0.45	-39.99	39.99			
100.00	100.00	100.30	100.30	0.09	0.09	-90.64	-0.45	-39.99	39.99	39.82	0.17	231.679
200.00	200.00	200.30	200.30	0.31	0.31	-90.64	-0.45	-39.99	39.99	39.37	0.62	64.281
300.00	300.00	300.30	300.30	0.54	0.54	-90.64	-0.45	-39.99	39.99	38.92	1.07	37.317
400.00	400.00	400.30	400.30	0.76	0.76	-90.64	-0.45	-39.99	39.99	38.47	1.52	26.290
500.00	500.00	500.30	500.30	0.99	0.99	-90.64	-0.45	-39.99	39.99	38.02	1.97	20.293
600.00	600.00	600.30	600.30	1.21	1.21	-90.64	-0.45	-39.99	39.99	37.57	2.42	16.524
700.00	700.00	700.30	700.30	1.43	1.44	-90.64	-0.45	-39.99	39.99	37.12	2.87	13.936
800.00	800.00	800.30	800.30	1.66	1.66	-90.64	-0.45	-39.99	39.99	36.67	3.32	12.048
900.00	900.00	900.30	900.30	1.88	1.88	-90.64	-0.45	-39.99	39.99	36.22	3.77	10.611
1,000.00	1,000.00	1,000.30	1,000.30	2.11	2.11	-90.64	-0.45	-39.99	39.99	35.77	4.22	9.480
1,100.00	1,100.00	1,100.30	1,100.30	2.33	2.33	-90.64	-0.45	-39.99	39.99	35.32	4.67	8.567
1,200.00	1,200.00	1,200.30	1,200.30	2.56	2.56	-90.64	-0.45	-39.99	39.99	34.88	5.12	7.815
1,300.00	1,300.00	1,300.30	1,300.30	2.78	2.78	-90.64	-0.45	-39.99	39.99	34.43	5.57	7.184
1,400.00	1,400.00	1,400.30	1,400.30	3.01	3.01	-90.64	-0.45	-39.99	39.99	33.98	6.02	6.647
1,500.00	1,500.00	1,500.30	1,500.30	3.23	3.23	-90.64	-0.45	-39.99	39.99	33.53	6.47	6.185
1,600.00	1,600.00	1,600.30	1,600.30	3.46	3.46	-90.64	-0.45	-39.99	39.99	33.08	6.92	5.783
1,700.00	1,700.00	1,700.30	1,700.30	3.68	3.68	-90.64	-0.45	-39.99	39.99	32.63	7.37	5.430
1,800.00	1,800.00	1,800.30	1,800.30	3.91	3.91	-90.64	-0.45	-39.99	39.99	32.18	7.81	5.118
1,900.00	1,900.00	1,900.30	1,900.30	4.13	4.13	-90.64	-0.45	-39.99	39.99	31.73	8.26	4.839
2,000.00	2,000.00	2,000.30	2,000.30	4.36	4.36	-90.64	-0.45	-39.99	39.99	31.28	8.71	4.590
2,100.00	2,100.00	2,100.30	2,100.30	4.58	4.58	-90.64	-0.45	-39.99	39.99	30.83	9.16	4.364
2,200.00	2,200.00	2,200.30	2,200.30	4.81	4.81	-90.64	-0.45	-39.99	39.99	30.38	9.61	4.160
2,300.00	2,300.00	2,300.30	2,300.30	5.03	5.03	-90.64	-0.45	-39.99	39.99	29.93	10.06	3.974
2,400.00	2,400.00	2,400.30	2,400.30	5.26	5.26	-90.64	-0.45	-39.99	39.99	29.48	10.51	3.805

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6Y
Project:	Lea County, NM (NAD-83)	TVD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Reference Site:	Rebel 20 Fed	MD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6Y	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	ADP Plan #1 Rev	Offset TVD Reference:	Offset Datum

Offset Design													Rebel 20 Fed - 2H - OH - Plan #1		Offset Site Error:		0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
2,500.00	2,500.00	2,500.30	2,500.30	5.48	5.48	-90.64	-0.45	-39.99	39.99	29.03	10.96	3.648	ES, SF				
2,600.00	2,600.00	2,600.30	2,600.30	5.71	5.71	-90.64	-0.45	-39.99	39.99	28.58	11.41	3.505					
2,700.00	2,700.00	2,700.30	2,700.30	5.93	5.93	-90.64	-0.45	-39.99	39.99	28.13	11.86	3.372					
2,800.00	2,800.00	2,800.30	2,800.30	6.15	6.16	-90.64	-0.45	-39.99	39.99	27.68	12.31	3.249					
2,900.00	2,900.00	2,900.30	2,900.30	6.38	6.38	-90.64	-0.45	-39.99	39.99	27.23	12.76	3.134					
3,000.00	3,000.00	3,000.30	3,000.30	6.60	6.60	-90.64	-0.45	-39.99	39.99	26.78	13.21	3.028					
3,100.00	3,100.00	3,100.30	3,100.30	6.83	6.83	-90.64	-0.45	-39.99	39.99	26.33	13.66	2.928					
3,200.00	3,200.00	3,200.30	3,200.30	7.05	7.05	-90.64	-0.45	-39.99	39.99	25.88	14.11	2.835					
3,300.00	3,300.00	3,300.30	3,300.30	7.28	7.28	-90.64	-0.45	-39.99	39.99	25.43	14.56	2.747					
3,400.00	3,400.00	3,400.30	3,400.30	7.50	7.50	-90.64	-0.45	-39.99	39.99	24.99	15.01	2.665					
3,500.00	3,500.00	3,500.30	3,500.30	7.73	7.73	-90.64	-0.45	-39.99	39.99	24.54	15.46	2.587					
3,600.00	3,600.00	3,600.30	3,600.30	7.95	7.95	-90.64	-0.45	-39.99	39.99	24.09	15.91	2.514					
3,700.00	3,700.00	3,700.30	3,700.30	8.18	8.18	-90.64	-0.45	-39.99	39.99	23.64	16.36	2.445					
3,800.00	3,800.00	3,800.30	3,800.30	8.40	8.40	-90.64	-0.45	-39.99	39.99	23.19	16.81	2.380					
3,900.00	3,900.00	3,900.30	3,900.30	8.63	8.63	-90.64	-0.45	-39.99	39.99	22.74	17.25	2.318					
4,000.00	4,000.00	4,000.30	4,000.30	8.85	8.85	-90.64	-0.45	-39.99	39.99	22.29	17.70	2.259					
4,100.00	4,100.00	4,100.30	4,100.30	9.08	9.08	-90.64	-0.45	-39.99	39.99	21.84	18.15	2.203					
4,200.00	4,200.00	4,200.30	4,200.30	9.30	9.30	-90.64	-0.45	-39.99	39.99	21.39	18.60	2.150					
4,300.00	4,300.00	4,300.30	4,300.30	9.53	9.53	-90.64	-0.45	-39.99	39.99	20.94	19.05	2.099					
4,400.00	4,400.00	4,400.30	4,400.30	9.75	9.75	-90.64	-0.45	-39.99	39.99	20.49	19.50	2.051					
4,500.00	4,500.00	4,500.30	4,500.30	9.98	9.98	-90.64	-0.45	-39.99	39.99	20.04	19.95	2.004 CC					
4,537.13	4,537.13	4,537.43	4,537.43	10.06	10.06	-90.73	-0.45	-39.99	39.99	19.87	20.12	1.988					
4,600.00	4,600.00	4,600.30	4,600.30	10.20	10.20	-90.96	-0.45	-39.99	40.00	19.59	20.40	1.960					
4,700.00	4,699.98	4,700.28	4,700.28	10.43	10.43	-93.45	-0.45	-39.99	40.06	19.21	20.85	1.921					
4,800.00	4,799.92	4,800.22	4,800.22	10.65	10.65	-98.39	-0.45	-39.99	40.42	19.13	21.30	1.898					
4,900.00	4,899.78	4,900.08	4,900.08	10.87	10.87	-105.53	-0.45	-39.99	41.51	19.77	21.74	1.909					
5,000.00	4,999.54	4,999.84	4,999.84	11.10	11.10	-114.30	-0.45	-39.99	43.90	21.72	22.18	1.979					
5,100.00	5,099.18	5,099.48	5,099.48	11.32	11.32	-123.54	-0.45	-39.99	48.03	25.41	22.62	2.124					
5,200.00	5,198.79	5,199.09	5,199.09	11.55	11.55	-131.35	-0.45	-39.99	53.36	30.30	23.06	2.314					
5,300.00	5,298.41	5,298.71	5,298.71	11.78	11.77	-137.65	-0.45	-39.99	59.49	35.99	23.50	2.531					
5,400.00	5,398.03	5,398.33	5,398.33	12.01	11.99	-142.73	-0.45	-39.99	66.20	42.25	23.95	2.764					
5,500.00	5,497.65	5,497.95	5,497.95	12.24	12.22	-146.85	-0.45	-39.99	73.34	48.94	24.39	3.006					
5,600.00	5,597.27	5,597.57	5,597.57	12.47	12.44	-150.23	-0.45	-39.99	80.78	55.94	24.84	3.252					
5,700.00	5,696.89	5,697.19	5,697.19	12.71	12.67	-153.04	-0.45	-39.99	88.46	63.17	25.29	3.498					
5,800.00	5,796.51	5,796.81	5,796.81	12.94	12.89	-155.39	-0.45	-39.99	96.31	70.58	25.74	3.742					
5,900.00	5,896.13	5,896.43	5,896.43	13.18	13.11	-157.38	-0.45	-39.99	104.31	78.12	26.19	3.983					
6,000.00	5,995.75	5,996.05	5,996.05	13.42	13.34	-159.09	-0.45	-39.99	112.40	85.77	26.63	4.220					
6,100.00	6,095.38	6,095.68	6,095.68	13.65	13.56	-160.55	-0.45	-39.99	120.49	93.41	27.08	4.450					
6,200.00	6,195.07	6,195.37	6,195.37	13.83	13.79	-161.74	-0.45	-39.99	127.92	100.43	27.48	4.654					
6,300.00	6,294.83	6,295.13	6,295.13	14.02	14.01	-162.68	-0.45	-39.99	134.56	106.67	27.89	4.825					
6,400.00	6,394.64	6,394.94	6,394.94	14.21	14.23	-163.43	-0.45	-39.99	140.40	112.10	28.30	4.962					
6,500.00	6,494.50	6,494.80	6,494.80	14.39	14.46	-164.02	-0.45	-39.99	145.42	116.72	28.70	5.066					
6,600.00	6,594.41	6,594.71	6,594.71	14.58	14.68	-164.49	-0.45	-39.99	149.62	120.51	29.11	5.140					
6,700.00	6,694.35	6,694.65	6,694.65	14.76	14.91	-164.84	-0.45	-39.99	152.99	123.47	29.52	5.183					
6,800.00	6,794.31	6,794.61	6,794.61	14.94	15.13	-165.10	-0.45	-39.99	155.52	125.60	29.92	5.198					
6,900.00	6,894.30	6,894.60	6,894.60	15.12	15.36	-165.26	-0.45	-39.99	157.20	126.88	30.33	5.184					
7,000.00	6,994.29	6,994.59	6,994.59	15.30	15.58	-165.34	-0.45	-39.99	158.05	127.32	30.73	5.143					
7,100.00	7,094.29	7,094.59	7,094.59	15.49	15.81	-165.35	-0.45	-39.99	158.15	127.01	31.14	5.078					
7,200.00	7,194.29	7,194.59	7,194.59	15.71	16.03	-165.35	-0.45	-39.99	158.15	126.56	31.59	5.006					
7,300.00	7,294.29	7,294.59	7,294.59	15.93	16.26	-165.35	-0.45	-39.99	158.15	126.12	32.04	4.936					
7,400.00	7,394.29	7,394.59	7,394.59	16.15	16.48	-165.35	-0.45	-39.99	158.15	125.67	32.49	4.868					
7,500.00	7,494.29	7,494.59	7,494.59	16.37	16.71	-165.35	-0.45	-39.99	158.15	125.22	32.93	4.802					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6Y
Project:	Lea County, NM (NAD-83)	TVD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Reference Site:	Rebel 20 Fed	MD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6Y	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	ADP Plan #1 Rev	Offset TVD Reference:	Offset Datum

Offset Design													Rebel 20 Fed - 2H - OH - Plan #1		Offset Site Error:	0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:	0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
7,600.00	7,594.29	7,594.59	7,594.59	16.59	16.93	-165.35	-0.45	-39.99	158.15	124.77	33.38	4.738				
7,700.00	7,694.29	7,694.59	7,694.59	16.81	17.16	-165.35	-0.45	-39.99	158.15	124.32	33.83	4.675				
7,800.00	7,794.29	7,794.59	7,794.59	17.04	17.38	-165.35	-0.45	-39.99	158.15	123.88	34.28	4.614				
7,842.82	7,837.11	7,837.41	7,837.41	17.13	17.48	-165.35	-0.45	-39.99	158.15	123.68	34.47	4.588				
7,900.00	7,894.29	7,885.80	7,885.78	17.26	17.58	-165.45	-1.39	-39.97	159.31	124.61	34.70	4.592				
8,000.00	7,994.29	7,963.46	7,962.77	17.48	17.71	-166.34	-11.08	-39.78	171.39	136.34	35.05	4.889				
8,100.00	8,094.29	8,037.23	8,034.06	17.70	17.84	-167.81	-29.84	-39.42	196.19	160.79	35.40	5.542				
8,200.00	8,194.29	8,100.00	8,092.26	17.92	17.95	-169.28	-53.26	-38.96	233.14	197.41	35.73	6.525				
8,300.00	8,294.29	8,159.31	8,143.99	18.14	18.04	-170.71	-82.18	-38.39	281.53	245.48	36.05	7.809				
8,400.00	8,394.29	8,208.71	8,184.07	18.36	18.14	-171.83	-111.02	-37.83	339.45	303.10	36.35	9.338				
8,500.00	8,494.29	8,250.00	8,215.14	18.59	18.24	-172.69	-138.19	-37.29	404.99	368.36	36.63	11.055				
8,600.00	8,594.29	8,287.34	8,241.12	18.81	18.35	-173.40	-164.99	-36.77	476.58	439.67	36.91	12.913				
8,700.00	8,694.29	8,325.00	8,265.12	19.03	18.47	-174.04	-193.99	-36.20	553.04	515.86	37.18	14.875				
8,800.00	8,794.29	8,350.00	8,279.76	19.25	18.56	-174.43	-214.25	-35.80	633.15	595.72	37.43	16.915				
8,900.00	8,894.29	8,375.00	8,293.32	19.47	18.65	-174.79	-235.24	-35.39	716.36	678.68	37.68	19.010				
9,000.00	8,994.29	8,387.80	8,299.83	19.69	18.71	-174.96	-246.26	-35.17	801.87	763.95	37.92	21.147				
9,100.00	9,094.29	8,400.00	8,305.76	19.92	18.76	-175.12	-256.92	-34.97	889.47	851.31	38.15	23.312				
9,200.00	9,194.29	8,425.00	8,317.05	20.14	18.87	-175.43	-279.22	-34.53	978.62	940.22	38.40	25.484				
9,300.00	9,294.29	8,433.94	8,320.80	20.36	18.92	-175.53	-287.34	-34.37	1,069.09	1,030.46	38.63	27.674				
9,400.00	9,394.29	8,450.00	8,327.16	20.58	19.00	-175.71	-302.08	-34.08	1,160.72	1,121.85	38.87	29.862				
9,500.00	9,494.29	8,450.00	8,327.16	20.80	19.00	-175.71	-302.08	-34.08	1,253.30	1,214.21	39.09	32.060				
9,600.00	9,594.29	8,475.00	8,336.05	21.03	19.13	-175.98	-325.43	-33.62	1,346.67	1,307.34	39.33	34.236				
9,700.00	9,694.29	8,475.00	8,336.05	21.25	19.13	-175.98	-325.43	-33.62	1,440.57	1,401.01	39.56	36.416				
9,800.00	9,794.29	8,475.00	8,336.05	21.47	19.13	-175.98	-325.43	-33.62	1,535.24	1,495.45	39.78	38.591				
9,900.00	9,894.29	8,489.96	8,340.79	21.69	19.21	-176.12	-339.63	-33.34	1,630.24	1,590.22	40.02	40.740				
10,000.00	9,994.29	8,500.00	8,343.71	21.92	19.27	-176.22	-349.22	-33.15	1,725.77	1,685.53	40.25	42.881				
10,100.00	10,094.29	8,500.00	8,343.71	22.14	19.27	-176.22	-349.22	-33.15	1,821.66	1,781.20	40.47	45.013				
10,200.00	10,194.29	8,500.00	8,343.71	22.36	19.27	-176.22	-349.22	-33.15	1,917.98	1,877.28	40.69	47.132				
10,300.00	10,294.20	8,513.60	8,347.36	22.55	19.35	3.14	-362.32	-32.90	2,013.63	1,972.89	40.75	49.417				
10,400.00	10,392.36	8,525.00	8,350.12	22.69	19.42	2.12	-373.38	-32.68	2,104.23	2,064.26	39.97	52.644				
10,500.00	10,485.59	8,525.00	8,350.12	22.79	19.42	1.59	-373.38	-32.68	2,186.92	2,148.82	38.10	57.406				
10,600.00	10,569.52	8,550.00	8,355.25	22.92	19.58	1.26	-397.84	-32.20	2,258.00	2,222.89	35.11	64.305				
10,700.00	10,640.39	8,550.00	8,355.25	23.03	19.58	1.09	-397.84	-32.20	2,315.31	2,283.88	31.43	73.667				
10,800.00	10,695.09	8,575.00	8,359.10	23.19	19.75	0.98	-422.54	-31.72	2,357.07	2,329.43	27.64	85.272				
10,900.00	10,731.24	8,600.00	8,361.64	23.46	19.92	0.92	-447.40	-31.23	2,382.49	2,358.00	24.50	97.262				
11,000.00	10,747.25	8,600.00	8,361.64	23.85	19.92	0.90	-447.40	-31.23	2,390.50	2,367.60	22.90	104.399				
11,100.00	10,748.17	8,625.00	8,362.88	24.34	20.10	0.90	-472.36	-30.74	2,386.86	2,363.84	23.02	103.673				
11,200.00	10,748.40	8,674.01	8,363.30	24.95	20.49	0.89	-521.36	-29.78	2,385.76	2,362.42	23.33	102.241				
11,300.00	10,748.63	8,774.01	8,364.01	25.68	21.37	0.87	-621.33	-27.81	2,385.26	2,361.42	23.84	100.034				
11,400.00	10,748.86	8,874.00	8,364.72	26.52	22.36	0.85	-721.31	-25.85	2,384.77	2,360.33	24.43	97.601				
11,500.00	10,749.09	8,974.00	8,365.43	27.46	23.45	0.83	-821.28	-23.89	2,384.27	2,359.17	25.10	94.998				
11,600.00	10,749.32	9,073.99	8,366.14	28.48	24.63	0.81	-921.25	-21.93	2,383.78	2,357.95	25.83	92.285				
11,700.00	10,749.54	9,173.99	8,366.85	29.58	25.89	0.78	-1,021.23	-19.96	2,383.28	2,356.66	26.62	89.513				
11,800.00	10,749.77	9,273.98	8,367.56	30.75	27.21	0.76	-1,121.20	-18.00	2,382.79	2,355.32	27.48	86.725				
11,900.00	10,750.00	9,373.98	8,368.27	31.98	28.58	0.74	-1,221.17	-16.04	2,382.30	2,353.92	28.38	83.955				
12,000.00	10,750.23	9,473.97	8,368.98	33.27	30.01	0.72	-1,321.15	-14.08	2,381.81	2,352.48	29.32	81.230				
12,100.00	10,750.46	9,573.97	8,369.68	34.60	31.48	0.70	-1,421.12	-12.11	2,381.31	2,351.00	30.31	78.568				
12,200.00	10,750.69	9,673.96	8,370.39	35.98	32.99	0.68	-1,521.09	-10.15	2,380.82	2,349.49	31.33	75.985				
12,300.00	10,750.92	9,773.96	8,371.10	37.40	34.52	0.66	-1,621.07	-8.19	2,380.33	2,347.94	32.39	73.490				
12,400.00	10,751.14	9,873.95	8,371.81	38.86	36.09	0.64	-1,721.04	-6.23	2,379.84	2,346.36	33.48	71.089				
12,500.00	10,751.37	9,973.95	8,372.52	40.34	37.68	0.62	-1,821.01	-4.26	2,379.35	2,344.76	34.59	68.785				
12,600.00	10,751.60	10,073.94	8,373.23	41.85	39.29	0.59	-1,920.99	-2.30	2,378.86	2,343.13	35.73	66.578				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6Y
Project:	Lea County, NM (NAD-83)	TVD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Reference Site:	Rebel 20 Fed	MD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6Y	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	ADP Plan #1 Rev	Offset TVD Reference:	Offset Datum

Offset Design													Rebel 20 Fed - 2H - OH - Plan #1		Offset Site Error:		0.00 usft
Survey Program: 0-LEAM MWD-ADJ													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
12,700.00	10,751.83	10,173.94	8,373.94	43.39	40.92	0.57	-2,020.96	-0.34	2,378.37	2,341.47	36.89	64.469					
12,800.00	10,752.06	10,273.93	8,374.65	44.94	42.57	0.55	-2,120.93	1.62	2,377.88	2,339.80	38.07	62.455					
12,900.00	10,752.29	10,373.93	8,375.36	46.52	44.23	0.53	-2,220.91	3.59	2,377.39	2,338.11	39.27	60.534					
13,000.00	10,752.51	10,473.92	8,376.07	48.12	45.90	0.51	-2,320.88	5.55	2,376.90	2,336.41	40.49	58.702					
13,100.00	10,752.74	10,573.92	8,376.78	49.73	47.59	0.49	-2,420.85	7.51	2,376.41	2,334.68	41.72	56.956					
13,200.00	10,752.97	10,673.91	8,377.49	51.36	49.28	0.47	-2,520.82	9.47	2,375.92	2,332.95	42.97	55.292					
13,300.00	10,753.20	10,773.91	8,378.20	53.00	50.99	0.45	-2,620.80	11.44	2,375.43	2,331.20	44.23	53.706					
13,400.00	10,753.43	10,873.90	8,378.91	54.65	52.71	0.42	-2,720.77	13.40	2,374.94	2,329.44	45.50	52.195					
13,500.00	10,753.66	10,973.90	8,379.62	56.31	54.43	0.40	-2,820.74	15.36	2,374.45	2,327.67	46.78	50.753					
13,600.00	10,753.89	11,073.89	8,380.33	57.99	56.16	0.38	-2,920.72	17.32	2,373.97	2,325.89	48.08	49.378					
13,700.00	10,754.11	11,173.89	8,381.04	59.67	57.89	0.36	-3,020.69	19.29	2,373.48	2,324.10	49.38	48.066					
13,800.00	10,754.34	11,273.88	8,381.75	61.36	59.64	0.34	-3,120.66	21.25	2,372.99	2,322.30	50.69	46.813					
13,900.00	10,754.57	11,373.88	8,382.46	63.06	61.38	0.32	-3,220.64	23.21	2,372.50	2,320.50	52.01	45.617					
14,000.00	10,754.80	11,473.87	8,383.17	64.77	63.14	0.30	-3,320.61	25.17	2,372.02	2,318.68	53.34	44.473					
14,100.00	10,755.03	11,573.87	8,383.88	66.48	64.89	0.28	-3,420.58	27.14	2,371.53	2,316.86	54.67	43.379					
14,200.00	10,755.26	11,673.86	8,384.59	68.20	66.65	0.25	-3,520.56	29.10	2,371.05	2,315.04	56.01	42.333					
14,300.00	10,755.48	11,773.86	8,385.30	69.92	68.42	0.23	-3,620.53	31.06	2,370.56	2,313.21	57.36	41.331					
14,400.00	10,755.71	11,873.85	8,386.01	71.65	70.19	0.21	-3,720.50	33.02	2,370.08	2,311.37	58.71	40.371					
14,500.00	10,755.94	11,973.85	8,386.72	73.39	71.96	0.19	-3,820.48	34.99	2,369.59	2,309.53	60.06	39.451					
14,600.00	10,756.17	12,073.84	8,387.43	75.13	73.73	0.17	-3,920.45	36.95	2,369.11	2,307.68	61.43	38.569					
14,700.00	10,756.40	12,173.84	8,388.14	76.87	75.51	0.15	-4,020.42	38.91	2,368.62	2,305.83	62.79	37.722					
14,800.00	10,756.63	12,273.83	8,388.85	78.62	77.29	0.13	-4,120.39	40.87	2,368.14	2,303.98	64.16	36.908					
14,900.00	10,756.86	12,373.82	8,389.56	80.37	79.07	0.11	-4,220.37	42.84	2,367.66	2,302.12	65.54	36.127					
15,000.00	10,757.08	12,473.82	8,390.27	82.13	80.86	0.08	-4,320.34	44.80	2,367.17	2,300.26	66.92	35.375					
15,100.00	10,757.31	12,573.81	8,390.98	83.88	82.64	0.06	-4,420.31	46.76	2,366.69	2,298.39	68.30	34.652					
15,200.00	10,757.54	12,673.81	8,391.69	85.64	84.43	0.04	-4,520.29	48.72	2,366.21	2,296.53	69.68	33.956					
15,300.00	10,757.77	12,773.80	8,392.40	87.41	86.22	0.02	-4,620.26	50.69	2,365.73	2,294.65	71.07	33.286					
15,395.68	10,757.99	12,858.09	8,393.00	89.10	87.54	0.00	-4,704.53	52.34	2,365.29	2,293.18	72.11	32.801					
15,400.00	10,758.00	12,858.09	8,393.00	89.18	87.54	0.00	-4,704.53	52.34	2,365.30	2,293.16	72.14	32.788					
15,401.08	10,758.00	12,858.09	8,393.00	89.19	87.54	0.00	-4,704.53	52.34	2,365.30	2,293.15	72.15	32.785					

LEAM Drilling Systems LLC

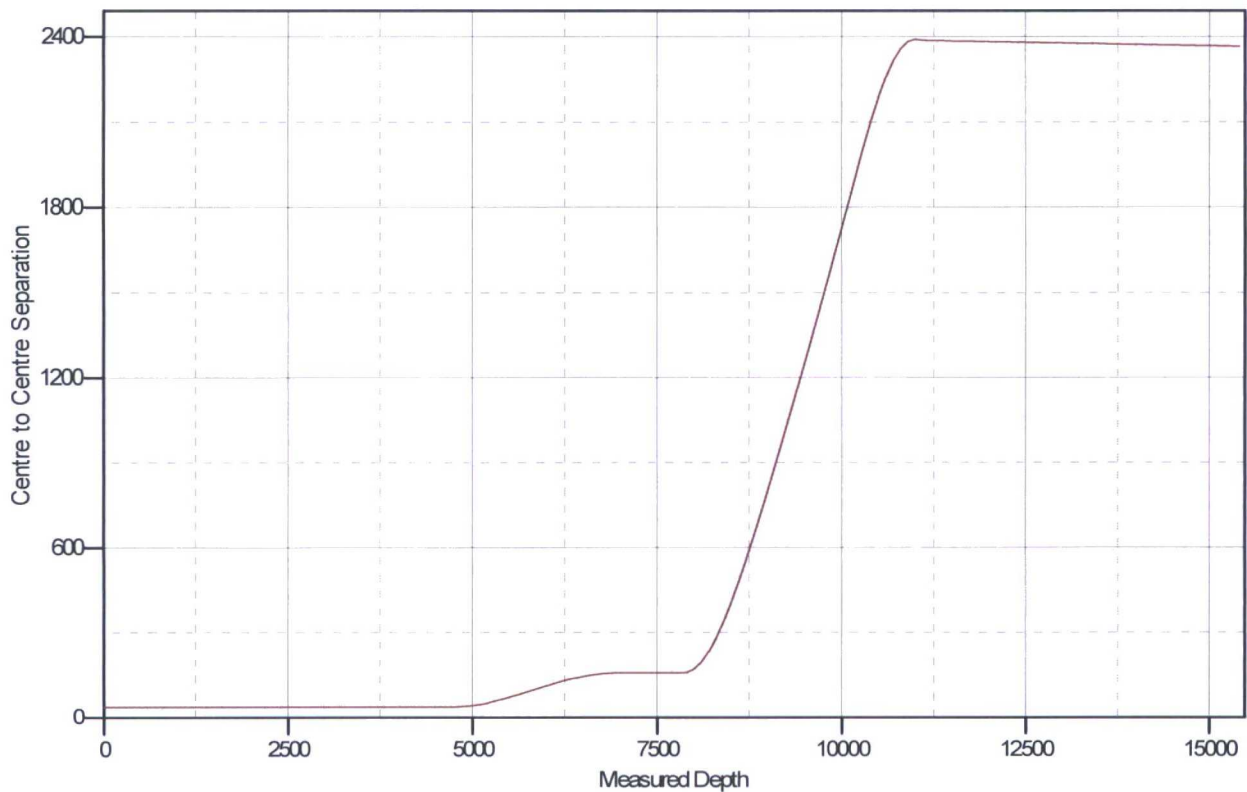
Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6Y
Project:	Lea County, NM (NAD-83)	TVD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Reference Site:	Rebel 20 Fed	MD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6Y	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	ADP Plan #1 Rev	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3563.8' GE + 23.5' KB @ 3587.30usft
Offset Depths are relative to Offset Datum
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 6Y
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.34°

Ladder Plot



LEGEND

◆ 2H, OH, Plan #1 V0

LEAM Drilling Systems LLC

Anticollision Report

Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well 6Y
Project:	Lea County, NM (NAD-83)	TVD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Reference Site:	Rebel 20 Fed	MD Reference:	3563.8' GE + 23.5' KB @ 3587.30usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	6Y	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	EDM 5000.1 Single User Db
Reference Design:	ADP Plan #1 Rev	Offset TVD Reference:	Offset Datum

Reference Depths are relative to 3563.8' GE + 23.5' KB @ 3587.30usft

Offset Depths are relative to Offset Datum

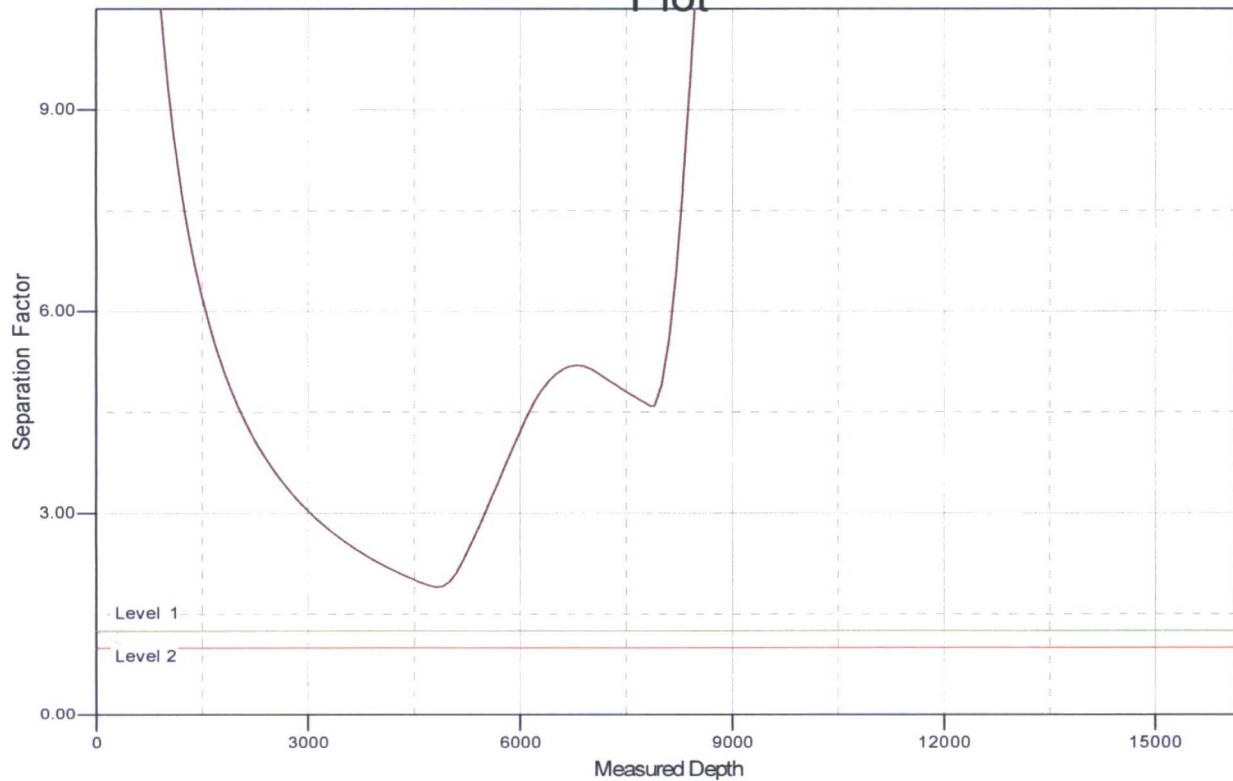
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 6Y

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.34°

Separation Factor Plot



LEGEND

◆ 2H, OH, Plan #1 V0

COMPANY	DEVON ENERGY
FIELD	Lea County, NM (NAD-83)
SITE	Rebel 20 Fed GY
WELL	OH
WELLPATH	ADP Plan #1 Rev
DESIGN	(ft)
DEPTH/HUNT	
WELL INFO	
MAP DATUM	North American Datum 1983
MAP SYSTEM	US State Plane 1983
MAP ZONE	New Mexico Eastern Zone
WELL LAT	32° 12' 34.266 N
WELL LON	103° 41' 56.105 W
WELL EW MAP	737551.89
WELL NS MAP	440535.90
CONVERGENCE	0.34
MAGMODEL	BGM2015
DECLINATION	7.27
NORTH REF	Gtd
GROUND ELEVN	3563.80
K8 ELEVN	3587.30
VS AZI	179.38

SURVEY TYPE INFORMATION

H 0.00 -15401.08 1 REV: LEAM MWD-AD

SURVEY LIST													
MD	INC	AZI	CL	TVD	Subsea TVD	Local N/S	Local E/-	Easting		Northing		LAT	LON
			Length			N/S	E/-	X	Y				
0.00	0.00	0.00	0.00	0.00	3587.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
100.00	0.00	0.00	100.00	100.00	3487.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
200.00	0.00	0.00	100.00	200.00	3387.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
300.00	0.00	0.00	100.00	300.00	3287.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
400.00	0.00	0.00	100.00	400.00	3187.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
500.00	0.00	0.00	100.00	500.00	3087.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
600.00	0.00	0.00	100.00	600.00	2987.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
700.00	0.00	0.00	100.00	700.00	2887.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
800.00	0.00	0.00	100.00	800.00	2787.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
900.00	0.00	0.00	100.00	900.00	2687.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
1000.00	0.00	0.00	100.00	1000.00	2587.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
1100.00	0.00	0.00	100.00	1100.00	2487.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
1200.00	0.00	0.00	100.00	1200.00	2387.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
1300.00	0.00	0.00	100.00	1300.00	2287.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
1400.00	0.00	0.00	100.00	1400.00	2187.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
1500.00	0.00	0.00	100.00	1500.00	2087.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
1600.00	0.00	0.00	100.00	1600.00	1987.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
1700.00	0.00	0.00	100.00	1700.00	1887.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
1800.00	0.00	0.00	100.00	1800.00	1787.30	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00

1900.00	0.00	0.00	100.00	1900.00	1687.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
2000.00	0.00	0.00	100.00	2000.00	1587.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
2100.00	0.00	0.00	100.00	2100.00	1487.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
2200.00	0.00	0.00	100.00	2200.00	1387.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
2300.00	0.00	0.00	100.00	2300.00	1287.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
2400.00	0.00	0.00	100.00	2400.00	1187.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
2500.00	0.00	0.00	100.00	2500.00	1087.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
2600.00	0.00	0.00	100.00	2600.00	987.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
2700.00	0.00	0.00	100.00	2700.00	887.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
2800.00	0.00	0.00	100.00	2800.00	787.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
2900.00	0.00	0.00	100.00	2900.00	687.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
3000.00	0.00	0.00	100.00	3000.00	587.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
3100.00	0.00	0.00	100.00	3100.00	487.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
3200.00	0.00	0.00	100.00	3200.00	387.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
3300.00	0.00	0.00	100.00	3300.00	287.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
3400.00	0.00	0.00	100.00	3400.00	187.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
3500.00	0.00	0.00	100.00	3500.00	87.30	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
3600.00	0.00	0.00	100.00	3600.00	-12.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
3700.00	0.00	0.00	100.00	3700.00	-112.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
3800.00	0.00	0.00	100.00	3800.00	-212.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
3900.00	0.00	0.00	100.00	3900.00	-312.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
4000.00	0.00	0.00	100.00	4000.00	-412.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
4100.00	0.00	0.00	100.00	4100.00	-512.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
4200.00	0.00	0.00	100.00	4200.00	-612.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
4300.00	0.00	0.00	100.00	4300.00	-712.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
4400.00	0.00	0.00	100.00	4400.00	-812.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
4500.00	0.00	0.00	100.00	4500.00	-912.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
4550.00	0.00	0.00	50.00	4550.00	-962.70	0.00	0.00	0.00	737551.89	440535.90	32° 12' 34.2659 N	103° 41' 56.1050 W	0.00	0.00
4600.00	0.50	0.00	50.00	4600.00	-1012.70	0.22	0.00	0.00	737551.89	440536.12	32° 12' 34.2681 N	103° 41' 56.1050 W	1.00	-0.22
4700.00	1.50	0.00	100.00	4699.98	-1112.68	1.96	0.00	0.00	737551.89	440537.86	32° 12' 34.2854 N	103° 41' 56.1049 W	1.00	-1.96
4800.00	2.50	0.00	100.00	4799.92	-1212.62	5.45	0.00	0.00	737551.89	440541.35	32° 12' 34.3199 N	103° 41' 56.1046 W	1.00	-5.45
4900.00	3.50	0.00	100.00	4899.78	-1312.48	10.69	0.00	0.00	737551.89	440546.59	32° 12' 34.3717 N	103° 41' 56.1043 W	1.00	-10.69
5000.00	4.50	0.00	100.00	4999.54	-1412.24	17.66	0.00	0.00	737551.89	440553.56	32° 12' 34.4407 N	103° 41' 56.1038 W	1.00	-17.66
5100.00	5.00	0.00	50.00	5049.37	-1462.07	21.80	0.00	0.00	737551.89	440557.70	32° 12' 34.4817 N	103° 41' 56.1035 W	1.00	-21.80
5200.00	5.00	0.00	50.00	5099.18	-1511.88	26.16	0.00	0.00	737551.89	440562.06	32° 12' 34.5248 N	103° 41' 56.1032 W	0.00	-26.16
5300.00	5.00	0.00	100.00	5198.79	-1611.49	34.88	0.00	0.00	737551.89	440570.78	32° 12' 34.6111 N	103° 41' 56.1026 W	0.00	-34.87
5400.00	5.00	0.00	100.00	5298.41	-1711.11	43.59	0.00	0.00	737551.89	440579.49	32° 12' 34.6973 N	103° 41' 56.1020 W	0.00	-43.59
5500.00	5.00	0.00	100.00	5398.03	-1810.73	52.31	0.00	0.00	737551.89	440588.21	32° 12' 34.7835 N	103° 41' 56.1014 W	0.00	-52.30
5600.00	5.00	0.00	100.00	5497.65	-1910.35	61.02	0.00	0.00	737551.89	440596.92	32° 12' 34.8698 N	103° 41' 56.1008 W	0.00	-61.02
5700.00	5.00	0.00	100.00	5597.27	-2009.97	69.74	0.00	0.00	737551.89	440605.64	32° 12' 34.9560 N	103° 41' 56.1002 W	0.00	-69.73
5800.00	5.00	0.00	100.00	5696.89	-2109.59	78.45	0.00	0.00	737551.89	440614.35	32° 12' 35.0423 N	103° 41' 56.0996 W	0.00	-78.45
5900.00	5.00	0.00	100.00	5796.51	-2209.21	87.17	0.00	0.00	737551.89	440623.07	32° 12' 35.1285 N	103° 41' 56.0990 W	0.00	-87.16
6000.00	5.00	0.00	100.00	5896.13	-2308.83	95.89	0.00	0.00	737551.89	440631.79	32° 12' 35.2148 N	103° 41' 56.0984 W	0.00	-95.88
6100.00	5.00	0.00	100.00	5995.75	-2408.45	104.60	0.00	0.00	737551.89	440640.50	32° 12' 35.3010 N	103° 41' 56.0978 W	0.00	-104.59
6200.00	5.00	0.00	50.00	6045.56	-2458.26	108.96	0.00	0.00	737551.89	440644.86	32° 12' 35.3441 N	103° 41' 56.0975 W	0.00	-108.95
6300.00	4.75	0.00	50.00	6095.38	-2508.08	113.21	0.00	0.00	737551.89	440649.11	32° 12' 35.3862 N	103° 41' 56.0972 W	0.50	-113.20
6400.00	4.25	0.00	100.00	6195.07	-2607.77	121.05	0.00	0.00	737551.89	440656.95	32° 12' 35.4638 N	103° 41' 56.0967 W	0.50	-121.05
6500.00	3.75	0.00	100.00	6294.83	-2707.53	128.03	0.00	0.00	737551.89	440663.99	32° 12' 35.5329 N	103° 41' 56.0962 W	0.50	-128.02
6600.00	3.25	0.00	100.00	6394.64	-2807.34	134.13	0.00	0.00	737551.89	440670.03	32° 12' 35.5933 N	103° 41' 56.0958 W	0.50	-134.13

65000.00	2.75	0.00	100.00	6494.50	-32907.20	139.37	0.00	737551.69	440675.27	32°12'35.6451"N	103°41'56.0954"W	0.50	-139.13
66000.00	2.25	0.00	100.00	6594.41	-32007.11	143.73	0.00	737551.69	440675.69	32°12'35.6682"N	103°41'56.0951"W	0.50	-143.72
67000.00	1.75	0.00	100.00	6694.35	-3107.05	147.22	0.00	737551.69	440683.12	32°12'35.7227"N	103°41'56.0949"W	0.50	-147.21
68000.00	1.25	0.00	100.00	6794.31	-3207.01	151.84	0.00	737551.69	440685.74	32°12'35.7487"N	103°41'56.0947"W	0.50	-149.83
69000.00	0.75	0.00	100.00	6894.30	-3307.00	154.58	0.00	737551.69	440687.48	32°12'35.7659"N	103°41'56.0945"W	0.50	-151.57
70000.00	0.25	0.00	100.00	6994.29	-3406.99	152.46	0.00	737551.69	440688.36	32°12'35.7746"N	103°41'56.0945"W	0.50	-152.45
70500.00	0.00	0.00	50.00	7044.29	-3456.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.50	-152.56
71000.00	0.00	0.00	50.00	7094.29	-3506.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
72000.00	0.00	0.00	100.00	7194.29	-3606.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
73000.00	0.00	0.00	100.00	7294.29	-3706.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
74000.00	0.00	0.00	100.00	7394.29	-3806.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
75000.00	0.00	0.00	100.00	7494.29	-3906.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
76000.00	0.00	0.00	100.00	7594.29	-4006.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
77000.00	0.00	0.00	100.00	7694.29	-4106.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
78000.00	0.00	0.00	100.00	7794.29	-4206.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
79000.00	0.00	0.00	100.00	7894.29	-4306.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
80000.00	0.00	0.00	100.00	7994.29	-4406.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
81000.00	0.00	0.00	100.00	8094.29	-4506.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
82000.00	0.00	0.00	100.00	8194.29	-4606.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
83000.00	0.00	0.00	100.00	8294.29	-4706.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
84000.00	0.00	0.00	100.00	8394.29	-4806.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
85000.00	0.00	0.00	100.00	8494.29	-4906.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
86000.00	0.00	0.00	100.00	8594.29	-5006.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
87000.00	0.00	0.00	100.00	8694.29	-5106.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
88000.00	0.00	0.00	100.00	8794.29	-5206.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
89000.00	0.00	0.00	100.00	8894.29	-5306.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
90000.00	0.00	0.00	100.00	8994.29	-5406.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
91000.00	0.00	0.00	100.00	9094.29	-5506.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
92000.00	0.00	0.00	100.00	9194.29	-5606.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
93000.00	0.00	0.00	100.00	9294.29	-5706.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
94000.00	0.00	0.00	100.00	9394.29	-5806.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
95000.00	0.00	0.00	100.00	9494.29	-5906.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
96000.00	0.00	0.00	100.00	9594.29	-6006.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
97000.00	0.00	0.00	100.00	9694.29	-6106.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
98000.00	0.00	0.00	100.00	9794.29	-6206.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
99000.00	0.00	0.00	100.00	9894.29	-6306.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
100000.00	0.00	0.00	100.00	9994.29	-6406.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
101000.00	0.00	0.00	100.00	10094.29	-6506.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
102000.00	0.00	0.00	100.00	10194.29	-6606.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
103000.00	0.00	0.00	100.00	10294.29	-6706.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
104000.00	0.00	0.00	100.00	10394.29	-6806.99	152.56	0.00	737551.69	440688.46	32°12'35.7756"N	103°41'56.0945"W	0.00	-152.56
104400.00	15.64	179.38	50.00	10392.36	-6805.06	131.35	0.23	737552.26	440667.51	32°12'35.5657"N	103°41'56.0933"W	10.00	-131.34
10444.59	20.00	179.38	43.59	10433.84	-6844.54	118.01	0.37	737552.26	440665.95	32°12'35.4337"N	103°41'56.0935"W	10.00	-118.00
104500.00	20.77	179.38	6.41	10439.85	-6852.55	115.78	0.40	737552.29	440651.68	32°12'35.4318"N	103°41'56.0924"W	12.00	-115.77
10475.00	23.77	179.38	25.00	10462.69	-6875.69	106.31	0.50	737552.29	440634.21	32°12'35.3129"N	103°41'56.0919"W	12.00	-106.30
105000.00	26.77	179.38	25.00	10485.59	-6898.29	95.64	0.62	737552.31	440614.54	32°12'35.2123"N	103°41'56.0913"W	12.00	-95.62
10525.00	29.77	179.38	25.00	10507.61	-6920.31	83.80	0.74	737552.63	440619.70	32°12'35.0951"N	103°41'56.0906"W	12.00	-83.79

10550.00	32.77	179.38	25.00	10528.97	-6941.67	70.82	0.88	737552.77	440606.72	32° 12' 34.9667 N	103° 41' 56.0898 W	12.00	-70.81
10575.00	35.77	179.38	25.00	10549.63	-6962.33	56.75	1.04	737552.93	440592.65	32° 12' 34.8274 N	103° 41' 56.0890 W	12.00	-56.74
10600.00	38.77	179.38	25.00	10569.52	-6982.22	41.61	1.20	737553.09	440577.51	32° 12' 34.6777 N	103° 41' 56.0882 W	12.00	-41.60
10625.00	41.77	179.38	25.00	10588.60	-7001.30	25.46	1.37	737553.26	440561.36	32° 12' 34.5178 N	103° 41' 56.0873 W	12.00	-25.44
10650.00	44.77	179.38	25.00	10606.80	-7019.50	8.32	1.56	737553.45	440544.22	32° 12' 34.3482 N	103° 41' 56.0863 W	12.00	-8.31
10675.00	47.77	179.38	25.00	10624.08	-7036.78	-9.74	1.75	737553.64	440526.16	32° 12' 34.1695 N	103° 41' 56.0852 W	12.00	9.76
10700.00	50.77	179.38	25.00	10640.39	-7053.09	-28.68	1.96	737553.85	440507.22	32° 12' 33.9864 N	103° 41' 56.0842 W	12.00	28.70
10725.00	53.77	179.38	25.00	10655.69	-7068.39	-48.45	2.17	737554.08	440487.45	32° 12' 33.7864 N	103° 41' 56.0830 W	12.00	48.47
10750.00	56.77	179.38	25.00	10669.93	-7082.63	-68.99	2.39	737554.28	440466.91	32° 12' 33.5831 N	103° 41' 56.0819 W	12.00	69.01
10775.00	59.77	179.38	25.00	10683.07	-7095.77	-90.25	2.62	737554.51	440445.65	32° 12' 33.3727 N	103° 41' 56.0807 W	12.00	90.27
10800.00	62.77	179.38	25.00	10695.09	-7107.79	-112.17	2.86	737554.75	440423.73	32° 12' 33.1558 N	103° 41' 56.0794 W	12.00	112.19
10825.00	65.77	179.38	25.00	10705.94	-7118.64	-134.69	3.10	737554.99	440401.21	32° 12' 32.9330 N	103° 41' 56.0781 W	12.00	134.71
10850.00	68.77	179.38	25.00	10715.60	-7128.30	-157.74	3.35	737555.24	440378.16	32° 12' 32.7048 N	103° 41' 56.0768 W	12.00	157.77
10875.00	71.77	179.38	25.00	10724.04	-7136.74	-181.27	3.61	737555.50	440354.63	32° 12' 32.4720 N	103° 41' 56.0755 W	12.00	181.30
10900.00	74.77	179.38	25.00	10731.24	-7143.94	-205.21	3.86	737555.75	440330.69	32° 12' 32.2351 N	103° 41' 56.0741 W	12.00	205.24
10925.00	77.77	179.38	25.00	10737.17	-7149.87	-229.49	4.13	737556.02	440306.41	32° 12' 31.9948 N	103° 41' 56.0727 W	12.00	229.52
10950.00	80.77	179.38	25.00	10741.82	-7154.52	-254.05	4.39	737556.28	440281.85	32° 12' 31.7518 N	103° 41' 56.0713 W	12.00	254.08
10975.00	83.77	179.38	25.00	10745.19	-7157.89	-278.82	4.66	737556.55	440257.09	32° 12' 31.5067 N	103° 41' 56.0699 W	12.00	278.85
11000.00	86.77	179.38	25.00	10747.25	-7159.95	-303.73	4.93	737556.82	440232.17	32° 12' 31.2601 N	103° 41' 56.0685 W	12.00	303.76
11025.83	89.87	179.38	25.83	10748.00	-7160.87	-329.54	5.21	737557.10	440206.36	32° 12' 31.0047 N	103° 41' 56.0670 W	12.00	329.58
11100.00	89.87	179.38	74.17	10748.17	-7160.87	-403.71	6.01	737557.90	440132.19	32° 12' 30.2707 N	103° 41' 56.0628 W	0.00	403.75
11200.00	89.87	179.38	100.00	10748.40	-7161.10	-503.70	7.08	737558.97	440032.20	32° 12' 29.2812 N	103° 41' 56.0571 W	0.00	503.75
11300.00	89.87	179.38	100.00	10748.63	-7161.33	-603.69	8.16	737560.05	439932.21	32° 12' 28.2916 N	103° 41' 56.0515 W	0.00	603.75
11400.00	89.87	179.38	100.00	10748.86	-7161.56	-703.69	9.24	737561.13	439832.21	32° 12' 27.3021 N	103° 41' 56.0458 W	0.00	703.75
11500.00	89.87	179.38	100.00	10749.09	-7161.79	-803.68	10.32	737562.21	439732.22	32° 12' 26.3125 N	103° 41' 56.0401 W	0.00	803.75
11600.00	89.87	179.38	100.00	10749.32	-7162.02	-903.67	11.40	737563.29	439632.23	32° 12' 25.3230 N	103° 41' 56.0344 W	0.00	903.75
11700.00	89.87	179.38	100.00	10749.54	-7162.24	-1003.67	12.48	737564.37	439532.23	32° 12' 24.3334 N	103° 41' 56.0287 W	0.00	1003.75
11800.00	89.87	179.38	100.00	10749.77	-7162.47	-1103.66	13.56	737565.45	439432.24	32° 12' 23.3439 N	103° 41' 56.0230 W	0.00	1103.74
11900.00	89.87	179.38	100.00	10750.00	-7162.70	-1203.66	14.64	737566.53	439332.24	32° 12' 22.3543 N	103° 41' 56.0173 W	0.00	1203.74
12000.00	89.87	179.38	100.00	10750.23	-7162.93	-1303.65	15.71	737567.60	439232.25	32° 12' 21.3648 N	103° 41' 56.0117 W	0.00	1303.74
12100.00	89.87	179.38	100.00	10750.46	-7163.16	-1403.64	16.79	737568.68	439132.26	32° 12' 20.3752 N	103° 41' 56.0060 W	0.00	1403.74
12200.00	89.87	179.38	100.00	10750.69	-7163.39	-1503.64	17.87	737569.76	439032.26	32° 12' 19.3857 N	103° 41' 56.0003 W	0.00	1503.74
12300.00	89.87	179.38	100.00	10750.92	-7163.62	-1603.63	18.95	737570.84	438932.27	32° 12' 18.3961 N	103° 41' 55.9946 W	0.00	1603.74
12400.00	89.87	179.38	100.00	10751.14	-7163.84	-1703.63	20.03	737571.92	438832.27	32° 12' 17.4066 N	103° 41' 55.9889 W	0.00	1703.74
12500.00	89.87	179.38	100.00	10751.37	-7164.07	-1803.62	21.11	737573.00	438732.28	32° 12' 16.4170 N	103° 41' 55.9832 W	0.00	1803.74
12600.00	89.87	179.38	100.00	10751.60	-7164.30	-1903.61	22.19	737574.08	438632.29	32° 12' 15.4275 N	103° 41' 55.9775 W	0.00	1903.74
12700.00	89.87	179.38	100.00	10751.83	-7164.53	-2003.61	23.26	737575.15	438532.29	32° 12' 14.4379 N	103° 41' 55.9719 W	0.00	2003.74
12800.00	89.87	179.38	100.00	10752.06	-7164.76	-2103.60	24.34	737576.23	438432.30	32° 12' 13.4484 N	103° 41' 55.9662 W	0.00	2103.74
12900.00	89.87	179.38	100.00	10752.29	-7164.99	-2203.60	25.42	737577.31	438332.30	32° 12' 12.4588 N	103° 41' 55.9605 W	0.00	2203.74
13000.00	89.87	179.38	100.00	10752.51	-7165.21	-2303.59	26.50	737578.39	438232.31	32° 12' 11.4693 N	103° 41' 55.9548 W	0.00	2303.74
13100.00	89.87	179.38	100.00	10752.74	-7165.44	-2403.58	27.58	737579.47	438132.32	32° 12' 10.4797 N	103° 41' 55.9491 W	0.00	2403.74
13200.00	89.87	179.38	100.00	10752.97	-7165.67	-2503.58	28.66	737580.55	438032.32	32° 12' 9.4902 N	103° 41' 55.9434 W	0.00	2503.74
13300.00	89.87	179.38	100.00	10753.20	-7165.90	-2603.57	29.74	737581.63	437932.33	32° 12' 8.5006 N	103° 41' 55.9377 W	0.00	2603.74
13400.00	89.87	179.38	100.00	10753.43	-7166.13	-2703.57	30.82	737582.71	437832.33	32° 12' 7.5111 N	103° 41' 55.9321 W	0.00	2703.74
13500.00	89.87	179.38	100.00	10753.66	-7166.36	-2803.56	31.89	737583.78	437732.34	32° 12' 6.5215 N	103° 41' 55.9264 W	0.00	2803.74
13600.00	89.87	179.38	100.00	10753.89	-7166.59	-2903.55	32.97	737584.86	437632.35	32° 12' 5.5319 N	103° 41' 55.9207 W	0.00	2903.74
13700.00	89.87	179.38	100.00	10754.11	-7166.81	-3003.55	34.05	737585.94	437532.35	32° 12' 4.5424 N	103° 41' 55.9150 W	0.00	3003.74
13800.00	89.87	179.38	100.00	10754.34	-7167.04	-3103.54	35.13	737587.02	437432.36	32° 12' 3.5528 N	103° 41' 55.9093 W	0.00	3103.74
13900.00	89.87	179.38	100.00	10754.57	-7167.27	-3203.54	36.21	737588.10	437332.36	32° 12' 2.5633 N	103° 41' 55.9036 W	0.00	3203.74

14000.00	89.87	179.38	100.00	10754.80	-7167.50	-3303.53	37.29	737589.18	437232.37	32° 12' 1.5737° N	103° 41' 55.8979° W	0.00	3303.74
14100.00	89.87	179.38	100.00	10755.03	-7167.73	-3403.52	38.37	737590.26	437132.38	32° 12' 0.5842° N	103° 41' 55.8922° W	0.00	3403.74
14200.00	89.87	179.38	100.00	10755.26	-7167.96	-3503.52	39.44	737591.33	437032.38	32° 11' 59.5946° N	103° 41' 55.8866° W	0.00	3503.74
14300.00	89.87	179.38	100.00	10755.48	-7168.18	-3603.51	40.52	737592.41	436932.39	32° 11' 58.6051° N	103° 41' 55.8809° W	0.00	3603.74
14400.00	89.87	179.38	100.00	10755.71	-7168.41	-3703.50	41.60	737593.49	436832.40	32° 11' 57.6155° N	103° 41' 55.8752° W	0.00	3703.74
14500.00	89.87	179.38	100.00	10755.94	-7168.64	-3803.50	42.68	737594.57	436732.40	32° 11' 56.6260° N	103° 41' 55.8695° W	0.00	3803.74
14600.00	89.87	179.38	100.00	10756.17	-7168.87	-3903.49	43.76	737595.65	436632.41	32° 11' 55.6364° N	103° 41' 55.8638° W	0.00	3903.74
14700.00	89.87	179.38	100.00	10756.40	-7169.10	-4003.49	44.84	737596.73	436532.41	32° 11' 54.6469° N	103° 41' 55.8581° W	0.00	4003.74
14800.00	89.87	179.38	100.00	10756.63	-7169.33	-4103.48	45.92	737597.81	436432.42	32° 11' 53.6573° N	103° 41' 55.8524° W	0.00	4103.74
14900.00	89.87	179.38	100.00	10756.86	-7169.56	-4203.47	47.00	737598.89	436332.43	32° 11' 52.6678° N	103° 41' 55.8468° W	0.00	4203.74
15000.00	89.87	179.38	100.00	10757.08	-7169.78	-4303.47	48.07	737599.96	436232.43	32° 11' 51.6782° N	103° 41' 55.8411° W	0.00	4303.74
15100.00	89.87	179.38	100.00	10757.31	-7170.01	-4403.46	49.15	737601.04	436132.44	32° 11' 50.6887° N	103° 41' 55.8354° W	0.00	4403.74
15200.00	89.87	179.38	100.00	10757.54	-7170.24	-4503.46	50.23	737602.12	436032.44	32° 11' 49.6991° N	103° 41' 55.8297° W	0.00	4503.74
15300.00	89.87	179.38	100.00	10757.77	-7170.47	-4603.45	51.31	737603.20	435932.45	32° 11' 48.7096° N	103° 41' 55.8240° W	0.00	4603.74
15401.08	89.87	179.38	101.08	10758.00	-7170.70	-4704.52	52.40	737604.29	435831.38	32° 11' 47.7094° N	103° 41' 55.8183° W	0.00	4704.81

Output Generated by LEAM DRILLING SYSTEMS, LLC