

Cimarex Energy Company

Lea County, NM
Caudill South "21" Fee
#3H

30-025-38690

ST01

Plan: Plan #1

Sperry Drilling Services Proposal Report

09 January, 2008

Well Coordinates 729,526.42 N, 855,805.72 E (33° 00' 04 52" N, 103° 18' 27.36" W)
Ground Level: 3,895.00 ft

Local Coordinate Origin:	Centered on Well #3H
Viewing Datum:	3,895' GL + 23' KB @ 3918 00ft (T&B)
TVDs to System:	N
North Reference:	Grd
Unit System:	API - U S Survey Feet

Version: 2003 16 Build: 42B

HALLIBURTON

HALLIBURTON**Plan Report for #3H - Plan #1**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	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	0.00
300.00	0.00	0.00	300.00	0.00	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	0.00
500.00	0.00	0.00	500.00	0.00	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	0.00
700.00	0.00	0.00	700.00	0.00	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	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	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	0.00
1,300.00	0.00	0.00	1,300.00	0.00	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	0.00
1,500.00	0.00	0.00	1,500.00	0.00	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	0.00
1,700.00	0.00	0.00	1,700.00	0.00	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	0.00
1,900.00	0.00	0.00	1,900.00	0.00	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	0.00
2,100.00	0.00	0.00	2,100.00	0.00	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	0.00
2,300.00	0.00	0.00	2,300.00	0.00	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	0.00
2,500.00	0.00	0.00	2,500.00	0.00	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	0.00
2,700.00	0.00	0.00	2,700.00	0.00	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	0.00
2,900.00	0.00	0.00	2,900.00	0.00	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	0.00
3,100.00	0.00	0.00	3,100.00	0.00	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	0.00
3,300.00	0.00	0.00	3,300.00	0.00	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	0.00
3,500.00	0.00	0.00	3,500.00	0.00	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	0.00
3,700.00	0.00	0.00	3,700.00	0.00	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	0.00
3,900.00	0.00	0.00	3,900.00	0.00	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	0.00
4,100.00	0.00	0.00	4,100.00	0.00	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	0.00
4,300.00	0.00	0.00	4,300.00	0.00	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	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

HALLIBURTON**Plan Report for #3H - Plan #1**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,400.00	0.00	0.00	10,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10,474.20	0.00	0.00	10,474.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP at 10,474' MD - Build 30°/100'										
10,500.00	7.74	0.17	10,499.92	1.74	0.01	1.74	29.99	29.99	0.00	0.17
10,600.00	37.74	0.17	10,591.10	39.95	0.12	39.95	30.00	30.00	0.00	0.00
10,700.00	67.74	0.17	10,650.96	118.63	0.35	118.63	30.00	30.00	0.00	0.00
10,783.17	92.69	0.17	10,664.98	199.95	0.59	199.95	30.00	30.00	0.00	0.00
EOC at 10,783' MD - Hold at 92.69°										
10,800.00	92.69	0.17	10,664.19	216.76	0.64	216.76	0.00	0.00	0.00	0.00
10,900.00	92.69	0.17	10,659.50	316.65	0.94	316.65	0.00	0.00	0.00	0.00
11,000.00	92.69	0.17	10,654.80	416.54	1.23	416.54	0.00	0.00	0.00	0.00
11,100.00	92.69	0.17	10,650.11	516.43	1.53	516.43	0.00	0.00	0.00	0.00
11,200.00	92.69	0.17	10,645.42	616.32	1.82	616.32	0.00	0.00	0.00	0.00
11,300.00	92.69	0.17	10,640.72	716.21	2.12	716.21	0.00	0.00	0.00	0.00

HALLIBURTON**Plan Report for #3H - Plan #1**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
11,400.00	92.69	0.17	10,636.03	816.09	2.41	816.10	0.00	0.00	0.00	0.00
11,500.00	92.69	0.17	10,631.34	915.98	2.71	915.99	0.00	0.00	0.00	0.00
11,600.00	92.69	0.17	10,626.64	1,015.87	3.00	1,015.88	0.00	0.00	0.00	0.00
11,700.00	92.69	0.17	10,621.95	1,115.76	3.30	1,115.77	0.00	0.00	0.00	0.00
11,800.00	92.69	0.17	10,617.26	1,215.65	3.59	1,215.66	0.00	0.00	0.00	0.00
11,900.00	92.69	0.17	10,612.57	1,315.54	3.89	1,315.55	0.00	0.00	0.00	0.00
12,000.00	92.69	0.17	10,607.87	1,415.43	4.18	1,415.44	0.00	0.00	0.00	0.00
12,100.00	92.69	0.17	10,603.18	1,515.32	4.48	1,515.33	0.00	0.00	0.00	0.00
12,167.73	92.69	0.17	10,600.00	1,582.98	4.68	1,582.98	0.00	0.00	0.00	0.00
TD at 12,167.73' MD										

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
10,474.20	10,474.20	0.00	0.00	KOP at 10,474' MD
10,474.20	10,474.20	0.00	0.00	Build 30°/100'
10,783.17	10,664.98	199.95	0.59	EOC at 10,783' MD
10,783.17	10,664.98	199.95	0.59	Hold at 92.69°
12,167.73	10,600.00	1,582.98	4.68	TD at 12,167.73' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	+E/-W (ft)	Start TVD (ft)
Target	C S 21F#3 PBHL(P1)	0.17	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	12,167.73	Plan #1	MWD

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	10,792.00	Wolfcamp D		-2.69	
	10,881.00	Wolfcamp E		-2.69	
9,710.00	9,710.00	Wolfcamp		-2.69	
10,074.00	10,074.00	Wolfcamp B		-2.69	
10,433.00	10,433.00	Wolfcamp C		-2.69	
10,723.12	10,665.00	Wolfcamp C (P.Z.)		-2.69	

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
C.S.21F#3 PBHL(P1)	10,600.00	1,582.98	4.68	Point

HALLIBURTON**North Reference Sheet for Caudill South "21" Fee - #3H - ST01**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to 3,895' GL + 23' KB @ 3918 00ft (T&B) Northing and Easting are relative to #3H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33°, Longitude Origin: 0° 0' 0.000 E°, Latitude Origin 0° 0' 0.000 N°

False Easting 541,337 50ft, False Northing: 0.00ft, Scale Reduction: 1.00002232

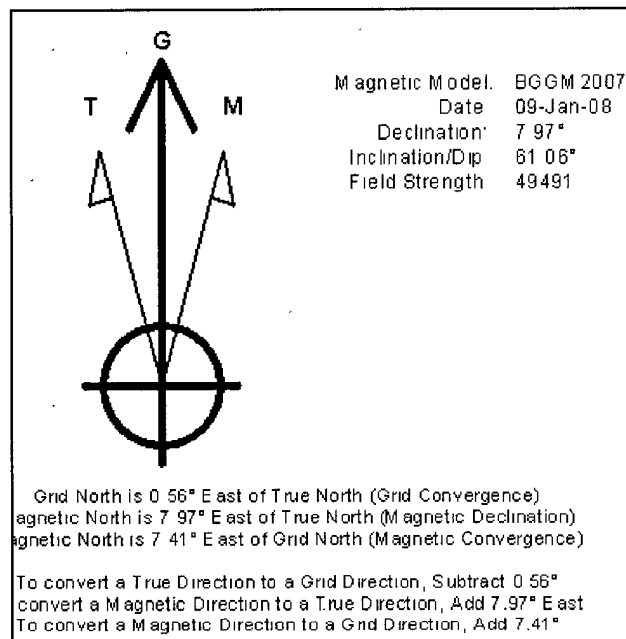
Grid Coordinates of Well: 729,526.42 ft N, 855,805.72 ft E

Geographical Coordinates of Well 33° 00' 04.52" N, 103° 18' 27.36" W

Grid Convergence at Surface is: 0 56°

Based upon Minimum Curvature type calculations, at a Measured Depth of 12,167.73ft
the Bottom Hole Displacement is 1,582.98ft in the Direction of 0 17° (Grid).

Magnetic Convergence at surface is: -7 41° (9 January 2008, , BGGM2007)



30-025-38690

Cimarex Energy Company
#3H - Plan #1

Lea County, NM
Caudill South "21" Fee
Your Ref:

Measured Depth (ft)	Incl.	Azim.	Sub-Sea Depth (ft)	Vertical Depth (ft)	Local Coordinates		UTM Coordinates		Vertical Section (ft)	Dogleg Rate (°/100ft)
					Northings (ft)	Eastings (ft)	Northings (ft)	Eastings (ft)		
0.00	0.000	0.000	-3918.00	0.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
30.00	0.000	0.000	-3888.00	30.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
60.00	0.000	0.000	-3858.00	60.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
90.00	0.000	0.000	-3828.00	90.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
120.00	0.000	0.000	-3798.00	120.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
150.00	0.000	0.000	-3768.00	150.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
180.00	0.000	0.000	-3738.00	180.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
210.00	0.000	0.000	-3708.00	210.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
240.00	0.000	0.000	-3678.00	240.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
270.00	0.000	0.000	-3648.00	270.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
300.00	0.000	0.000	-3618.00	300.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
330.00	0.000	0.000	-3588.00	330.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
360.00	0.000	0.000	-3558.00	360.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
390.00	0.000	0.000	-3528.00	390.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
420.00	0.000	0.000	-3498.00	420.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
450.00	0.000	0.000	-3468.00	450.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
480.00	0.000	0.000	-3438.00	480.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
510.00	0.000	0.000	-3408.00	510.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
540.00	0.000	0.000	-3378.00	540.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
570.00	0.000	0.000	-3348.00	570.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
600.00	0.000	0.000	-3318.00	600.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
630.00	0.000	0.000	-3288.00	630.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
660.00	0.000	0.000	-3258.00	660.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
690.00	0.000	0.000	-3228.00	690.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
720.00	0.000	0.000	-3198.00	720.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
750.00	0.000	0.000	-3168.00	750.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
780.00	0.000	0.000	-3138.00	780.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
810.00	0.000	0.000	-3108.00	810.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
840.00	0.000	0.000	-3078.00	840.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
870.00	0.000	0.000	-3048.00	870.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
900.00	0.000	0.000	-3018.00	900.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
930.00	0.000	0.000	-2988.00	930.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
960.00	0.000	0.000	-2958.00	960.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
990.00	0.000	0.000	-2928.00	990.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1020.00	0.000	0.000	-2898.00	1020.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1050.00	0.000	0.000	-2868.00	1050.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1080.00	0.000	0.000	-2838.00	1080.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1110.00	0.000	0.000	-2808.00	1110.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1140.00	0.000	0.000	-2778.00	1140.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1170.00	0.000	0.000	-2748.00	1170.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1200.00	0.000	0.000	-2718.00	1200.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1230.00	0.000	0.000	-2688.00	1230.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1260.00	0.000	0.000	-2658.00	1260.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1290.00	0.000	0.000	-2628.00	1290.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1320.00	0.000	0.000	-2598.00	1320.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1350.00	0.000	0.000	-2568.00	1350.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1380.00	0.000	0.000	-2538.00	1380.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1410.00	0.000	0.000	-2508.00	1410.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1440.00	0.000	0.000	-2478.00	1440.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1470.00	0.000	0.000	-2448.00	1470.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1500.00	0.000	0.000	-2418.00	1500.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1530.00	0.000	0.000	-2388.00	1530.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1560.00	0.000	0.000	-2358.00	1560.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1590.00	0.000	0.000	-2328.00	1590.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1620.00	0.000	0.000	-2298.00	1620.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1650.00	0.000	0.000	-2268.00	1650.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1680.00	0.000	0.000	-2238.00	1680.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1710.00	0.000	0.000	-2208.00	1710.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1740.00	0.000	0.000	-2178.00	1740.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1770.00	0.000	0.000	-2148.00	1770.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1800.00	0.000	0.000	-2118.00	1800.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1830.00	0.000	0.000	-2088.00	1830.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1860.00	0.000	0.000	-2058.00	1860.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1890.00	0.000	0.000	-2028.00	1890.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1920.00	0.000	0.000	-1998.00	1920.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1950.00	0.000	0.000	-1968.00	1950.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
1980.00	0.000	0.000	-1938.00	1980.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2010.00	0.000	0.000	-1908.00	2010.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2040.00	0.000	0.000	-1878.00	2040.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2070.00	0.000	0.000	-1848.00	2070.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2100.00	0.000	0.000	-1818.00	2100.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2130.00	0.000	0.000	-1788.00	2130.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2160.00	0.000	0.000	-1758.00	2160.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2190.00	0.000	0.000	-1728.00	2190.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2220.00	0.000	0.000	-1698.00	2220.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2250.00	0.000	0.000	-1668.00	2250.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2280.00	0.000	0.000	-1638.00	2280.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2310.00	0.000	0.000	-1608.00	2310.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2340.00	0.000	0.000	-1578.00	2340.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2370.00	0.000	0.000	-1548.00	2370.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2400.00	0.000	0.000	-1518.00	2400.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2430.00	0.000	0.000	-1488.00	2430.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2460.00	0.000	0.000	-1458.00	2460.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2490.00	0.000	0.000	-1428.00	2490.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00

2520.00	0.000	0.000	-1398.00	2520.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2550.00	0.000	0.000	-1368.00	2550.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2580.00	0.000	0.000	-1338.00	2580.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2610.00	0.000	0.000	-1308.00	2610.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2640.00	0.000	0.000	-1278.00	2640.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2670.00	0.000	0.000	-1248.00	2670.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2700.00	0.000	0.000	-1218.00	2700.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2730.00	0.000	0.000	-1188.00	2730.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2760.00	0.000	0.000	-1158.00	2760.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2790.00	0.000	0.000	-1128.00	2790.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2820.00	0.000	0.000	-1098.00	2820.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2850.00	0.000	0.000	-1068.00	2850.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2880.00	0.000	0.000	-1038.00	2880.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2910.00	0.000	0.000	-1008.00	2910.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2940.00	0.000	0.000	-978.00	2940.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
2970.00	0.000	0.000	-948.00	2970.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3000.00	0.000	0.000	-918.00	3000.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3030.00	0.000	0.000	-888.00	3030.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3060.00	0.000	0.000	-858.00	3060.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3090.00	0.000	0.000	-828.00	3090.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3120.00	0.000	0.000	-798.00	3120.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3150.00	0.000	0.000	-768.00	3150.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3180.00	0.000	0.000	-738.00	3180.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3210.00	0.000	0.000	-708.00	3210.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3240.00	0.000	0.000	-678.00	3240.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3270.00	0.000	0.000	-648.00	3270.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3300.00	0.000	0.000	-618.00	3300.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3330.00	0.000	0.000	-588.00	3330.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3360.00	0.000	0.000	-558.00	3360.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3390.00	0.000	0.000	-528.00	3390.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3420.00	0.000	0.000	-498.00	3420.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
3450.00	0.000	0.000	-468.00	3450.00	0.00 N	0.00 E	72			

8340.00	0.000	0.000	4422.00	8340.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8370.00	0.000	0.000	4452.00	8370.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8400.00	0.000	0.000	4482.00	8400.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8430.00	0.000	0.000	4512.00	8430.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8460.00	0.000	0.000	4542.00	8460.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8490.00	0.000	0.000	4572.00	8490.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8520.00	0.000	0.000	4602.00	8520.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8550.00	0.000	0.000	4632.00	8550.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8580.00	0.000	0.000	4662.00	8580.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8610.00	0.000	0.000	4692.00	8610.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8640.00	0.000	0.000	4722.00	8640.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8670.00	0.000	0.000	4752.00	8670.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8700.00	0.000	0.000	4782.00	8700.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8730.00	0.000	0.000	4812.00	8730.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8760.00	0.000	0.000	4842.00	8760.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8790.00	0.000	0.000	4872.00	8790.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8820.00	0.000	0.000	4902.00	8820.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8850.00	0.000	0.000	4932.00	8850.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8880.00	0.000	0.000	4962.00	8880.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8910.00	0.000	0.000	4992.00	8910.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8940.00	0.000	0.000	5022.00	8940.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
8970.00	0.000	0.000	5052.00	8970.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9000.00	0.000	0.000	5082.00	9000.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9030.00	0.000	0.000	5112.00	9030.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9060.00	0.000	0.000	5142.00	9060.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9090.00	0.000	0.000	5172.00	9090.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9120.00	0.000	0.000	5202.00	9120.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9150.00	0.000	0.000	5232.00	9150.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9180.00	0.000	0.000	5262.00	9180.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9210.00	0.000	0.000	5292.00	9210.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9240.00	0.000	0.000	5322.00	9240.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9270.00	0.000	0.000	5352.00	9270.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9300.00	0.000	0.000	5382.00	9300.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9330.00	0.000	0.000	5412.00	9330.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9360.00	0.000	0.000	5442.00	9360.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9390.00	0.000	0.000	5472.00	9390.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9420.00	0.000	0.000	5502.00	9420.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9450.00	0.000	0.000	5532.00	9450.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9480.00	0.000	0.000	5562.00	9480.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9510.00	0.000	0.000	5592.00	9510.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9540.00	0.000	0.000	5622.00	9540.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9570.00	0.000	0.000	5652.00	9570.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9600.00	0.000	0.000	5682.00	9600.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9630.00	0.000	0.000	5712.00	9630.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9660.00	0.000	0.000	5742.00	9660.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9690.00	0.000	0.000	5772.00	9690.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9720.00	0.000	0.000	5802.00	9720.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9750.00	0.000	0.000	5832.00	9750.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9780.00	0.000	0.000	5862.00	9780.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9810.00	0.000	0.000	5892.00	9810.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9840.00	0.000	0.000	5922.00	9840.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9870.00	0.000	0.000	5952.00	9870.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9900.00	0.000	0.000	5982.00	9900.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9930.00	0.000	0.000	6012.00	9930.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9960.00	0.000	0.000	6042.00	9960.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
9990.00	0.000	0.000	6072.00	9990.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10020.00	0.000	0.000	6102.00	10020.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10050.00	0.000	0.000	6132.00	10050.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10080.00	0.000	0.000	6162.00	10080.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10110.00	0.000	0.000	6192.00	10110.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10140.00	0.000	0.000	6222.00	10140.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10170.00	0.000	0.000	6252.00	10170.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10200.00	0.000	0.000	6282.00	10200.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10230.00	0.000	0.000	6312.00	10230.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10260.00	0.000	0.000	6342.00	10260.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10290.00	0.000	0.000	6372.00	10290.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10320.00	0.000	0.000	6402.00	10320.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10350.00	0.000	0.000	6432.00	10350.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10380.00	0.000	0.000	6462.00	10380.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10410.00	0.000	0.000	6492.00	10410.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10440.00	0.000	0.000	6522.00	10440.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10470.00	0.000	0.000	6552.00	10470.00	0.00 N	0.00 E	729526.420 N	855805.720 E	0.00	0.00
10500.00	7.739	0.169	6581.92	10499.92	1.74 N	0.01 E	729528.159 N	855805.725 E	1.74	25.80
10530.00	16.739	0.169	6611.21	10529.21	8.09 N	0.02 E	729534.512 N	855805.744 E	8.09	30.00
10560.00	25.739	0.169	6639.14	10557.14	18.95 N	0.06 E	729545.369 N	855805.776 E	18.95	30.00
10590.00	34.739	0.169	6665.03	10583.03	34.04 N	0.10 E	729560.461 N	855805.821 E	34.04	30.00
10620.00	43.739	0.169	6688.25	10606.25	53.00 N	0.16 E	729579.418 N	855805.877 E	53.00	30.00
10650.00	52.739	0.169	6708.21	10626.21	75.35 N	0.22 E	729601.772 N	855805.943 E	75.35	30.00
10680.00	61.739	0.169	6724.42	10642.42	100.55 N	0.30 E	729626.974 N	855806.017 E	100.55	30.00
10710.00	70.739	0.169	6736.50	10654.50	127.98 N	0.38 E	729654.403 N	855806.098 E	127.98	30.00
10740.00	79.739	0.169	6744.14	10662.14	156.96 N	0.46 E	729683.383 N	855806.184 E	156.96	30.00
10770.00	88.739	0.169	6747.14	10665.14	186.78 N	0.55 E	729713.200 N	855806.272 E	186.78	30.00
10800.00	92.690	0.169	6746.19	10664.19	216.76 N	0.64 E	729743.178 N	855806.361 E	216.76	13.17
10830.00	92.690	0.169	6744.78	10662.78	246.72 N	0.73 E	729773.145 N	855806.449 E	246.73	0.00
10860.00	92.690	0.169	6743.37	10661.37	276.69 N	0.82 E	729803.112 N	855806.538 E	276.69	0.00
10890.00	92.690	0.169	6741.97	10659.97	306.66 N	0.91 E	729833.079 N	855806.627 E	306.66	0.00
10920.00	92.690	0.169	6740.56	10658.56	336.63 N	1.00 E	729863.045 N	855806.715 E	336.63	0.00
10950.00	92.690	0.169	6739.15	10657.15	366.59 N	1.08 E	729893.012 N	855806.804 E	366.59	0.00
10980.00	92.690	0.169	6737.74	10655.74	396.56 N	1.17 E	729922.979 N	855806.892 E	396.56	0.00
11010.00	92.690	0.169	6736.33	10654.33	426.53 N	1.26 E	729952.946 N	855806.981 E	426.53	0.00
11040.00	92.690	0.169	6734.93	10652.93	456.49 N	1.35 E	729982.913 N	855807.070 E	456.49	0.00
11070.00	92.690	0.169	6733.52	10651.52	486.46 N	1.44 E	730012.879 N	855807.158 E	486.46	0.00
11100.00	92.690	0.169	6732.11	10650.11	516.43 N	1.53 E	730042.846 N			

11250.00	92.690	0.169	6725.07	10643.07	666.26 N	1.97 E	730192.680 N	855807.690 E	666.26	0.00
11280.00	92.690	0.169	6723.66	10641.66	696.23 N	2.06 E	730222.647 N	855807.778 E	696.23	0.00
11310.00	92.690	0.169	6722.26	10640.26	726.19 N	2.15 E	730252.614 N	855807.867 E	726.20	0.00
11340.00	92.690	0.169	6720.85	10638.85	756.16 N	2.24 E	730282.581 N	855807.956 E	756.16	0.00
11370.00	92.690	0.169	6719.44	10637.44	786.13 N	2.32 E	730312.548 N	855808.044 E	786.13	0.00
11400.00	92.690	0.169	6718.03	10636.03	816.09 N	2.41 E	730342.514 N	855808.133 E	816.10	0.00
11430.00	92.690	0.169	6716.62	10634.62	846.06 N	2.50 E	730372.481 N	855808.221 E	846.06	0.00
11460.00	92.690	0.169	6715.22	10633.22	876.03 N	2.59 E	730402.448 N	855808.310 E	876.03	0.00
11490.00	92.690	0.169	6713.81	10631.81	905.99 N	2.68 E	730432.415 N	855808.399 E	906.00	0.00
11520.00	92.690	0.169	6712.40	10630.40	935.96 N	2.77 E	730462.382 N	855808.487 E	935.97	0.00
11550.00	92.690	0.169	6710.99	10628.99	965.93 N	2.86 E	730492.348 N	855808.576 E	965.93	0.00
11580.00	92.690	0.169	6709.58	10627.58	995.90 N	2.94 E	730522.315 N	855808.664 E	995.90	0.00
11610.00	92.690	0.169	6708.18	10626.18	1025.86 N	3.03 E	730552.282 N	855808.753 E	1025.87	0.00
11640.00	92.690	0.169	6706.77	10624.77	1055.83 N	3.12 E	730582.249 N	855808.842 E	1055.83	0.00
11670.00	92.690	0.169	6705.36	10623.36	1085.80 N	3.21 E	730612.216 N	855808.930 E	1085.80	0.00
11700.00	92.690	0.169	6703.95	10621.95	1115.76 N	3.30 E	730642.182 N	855809.019 E	1115.77	0.00
11730.00	92.690	0.169	6702.54	10620.54	1145.73 N	3.39 E	730672.149 N	855809.107 E	1145.73	0.00
11760.00	92.690	0.169	6701.14	10619.14	1175.70 N	3.48 E	730702.116 N	855809.196 E	1175.70	0.00
11790.00	92.690	0.169	6699.73	10617.73	1205.66 N	3.56 E	730732.083 N	855809.284 E	1205.67	0.00
11820.00	92.690	0.169	6698.32	10616.32	1235.63 N	3.65 E	730762.050 N	855809.373 E	1235.64	0.00
11850.00	92.690	0.169	6696.91	10614.91	1265.60 N	3.74 E	730792.017 N	855809.462 E	1265.60	0.00
11880.00	92.690	0.169	6695.50	10613.50	1295.56 N	3.83 E	730821.983 N	855809.550 E	1295.57	0.00
11910.00	92.690	0.169	6694.10	10612.10	1325.53 N	3.92 E	730851.950 N	855809.639 E	1325.54	0.00
11940.00	92.690	0.169	6692.69	10610.69	1355.50 N	4.01 E	730881.917 N	855809.727 E	1355.50	0.00
11970.00	92.690	0.169	6691.28	10609.28	1385.46 N	4.10 E	730911.884 N	855809.816 E	1385.47	0.00
12000.00	92.690	0.169	6689.87	10607.87	1415.43 N	4.18 E	730941.851 N	855809.905 E	1415.44	0.00
12030.00	92.690	0.169	6688.46	10606.46	1445.40 N	4.27 E	730971.817 N	855809.993 E	1445.40	0.00
12060.00	92.690	0.169	6687.06	10605.06	1475.36 N	4.36 E	731001.784 N	855810.082 E	1475.37	0.00
12090.00	92.690	0.169	6685.65	10603.65	1505.33 N	4.45 E	731031.751 N	855810.170 E	1505.34	0.00
12120.00	92.690	0.169	6684.24	10602.24	1535.30 N	4.54 E	731061.718 N	855810.259 E	1535.30	0.00
12150.00	92.690	0.169	6682.83	10600.83	1565.26 N	4.63 E	731091.685 N	855810.348 E	1565.27	0.00
12167.73	92.690	0.169	6682.00	10600.00	1582.98 N	4.68 E	731109.400 N	855810.400 E	1582.99	0.00

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to 3,895' GL + 23' KB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.
Vertical Section is from Slot and calculated along an Azimuth of 0 169° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.
Grid Convergence at Surface is 0.559°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 12167.73ft.,
the Bottom Hole Displacement is 1582.99ft., in the Direction of 0.169° (Grid).