

Cimarex Energy Company

Lea County, NM
Caudill West "17" Fee
#2H

30-025-38691

ST01

Plan: Plan #1

Sperry Drilling Services Proposal Report

09 January, 2008

Well Coordinates: 735,752 10 N, 852,159.40 E (33° 01' 06.46" N, 103° 19' 09.47" W)
Ground Level: 3,913.00 ft

Local Coordinate Origin:	Centered on Well #2H
Viewing Datum	3,913' GL + 23' KB @ 3936.00ft (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 #2H - 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 #2H - 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
10,430.04	0.00	0.00	10,430.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP at 10,430' MD - Build 30°/100'										
10,500.00	20.99	2.45	10,498.45	12.66	0.54	12.67	30.00	30.00	0.00	2.45
10,600.00	50.99	2.45	10,578.44	70.70	3.03	70.77	30.00	30.00	0.00	0.00
10,700.00	80.99	2.45	10,618.67	160.93	6.90	161.07	30.00	30.00	0.00	0.00
10,732.72	90.81	2.45	10,621.00	193.49	8.29	193.67	30.00	30.00	0.00	0.00
EOC at 10,732' MD - Hold at 90.81°										
10,800.00	90.81	2.45	10,620.06	260.70	11.18	260.94	0.00	0.00	0.00	0.00
10,900.00	90.81	2.45	10,618.65	360.60	15.46	360.93	0.00	0.00	0.00	0.00
11,000.00	90.81	2.45	10,617.25	460.50	19.74	460.92	0.00	0.00	0.00	0.00
11,100.00	90.81	2.45	10,615.84	560.40	24.02	560.91	0.00	0.00	0.00	0.00
11,200.00	90.81	2.45	10,614.44	660.30	28.31	660.90	0.00	0.00	0.00	0.00
11,300.00	90.81	2.45	10,613.03	760.20	32.59	760.89	0.00	0.00	0.00	0.00

HALLIBURTON**Plan Report for #2H - 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	90.81	2.45	10,611.63	860.09	36.87	860.88	0.00	0.00	0.00	0.00
11,500.00	90.81	2.45	10,610.22	959.99	41.15	960.87	0.00	0.00	0.00	0.00
11,600.00	90.81	2.45	10,608.82	1,059.89	45.44	1,060.86	0.00	0.00	0.00	0.00
11,700.00	90.81	2.45	10,607.41	1,159.79	49.72	1,160.85	0.00	0.00	0.00	0.00
11,800.00	90.81	2.45	10,606.01	1,259.69	54.00	1,260.84	0.00	0.00	0.00	0.00
11,900.00	90.81	2.45	10,604.60	1,359.59	58.28	1,360.83	0.00	0.00	0.00	0.00
12,000.00	90.81	2.45	10,603.20	1,459.48	62.57	1,460.82	0.00	0.00	0.00	0.00
12,100.00	90.81	2.45	10,601.79	1,559.38	66.85	1,560.81	0.00	0.00	0.00	0.00
12,200.00	90.81	2.45	10,600.39	1,659.28	71.13	1,660.80	0.00	0.00	0.00	0.00
12,300.00	90.81	2.45	10,598.98	1,759.18	75.41	1,760.79	0.00	0.00	0.00	0.00
12,400.00	90.81	2.45	10,597.58	1,859.08	79.70	1,860.78	0.00	0.00	0.00	0.00
12,441.21	90.81	2.45	10,597.00	1,900.25	81.46	1,901.99	0.00	0.00	0.00	0.00
TD at 12,441.21' MD										

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
10,430.04	10,430.04	0.00	0.00	KOP at 10,430' MD
10,430.04	10,430.04	0.00	0.00	Build 30°/100'
10,732.72	10,621.00	193.49	8.29	EOC at 10,732' MD
10,732.72	10,621.00	193.49	8.29	Hold at 90.81°
12,441.21	10,597.00	1,900.25	81.46	TD at 12,441.21' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
TD	No Target (Freehand)	2.45	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	12,441.21	Plan #1	

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	10,708.00	Wolfcamp D		-0.81	
1,406.00	1,406.00	Wolfcamp C		-0.81	
9,710.00	9,710.00	Wolfcamp		-0.81	
10,046.00	10,046.00	Wolfcamp B		-0.81	
10,700.35	10,621.00	Wolfcamp C (P.Z.)		-0.81	

HALLIBURTON**Plan Report for #2H - Plan #1**

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
C W 17F#2 PBHL(P1)	10,597.00	1,900 25	81 46	Point

HALLIBURTON**North Reference Sheet for Caudill West "17" Fee - #2H - ST01**

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

Vertical Depths are relative to 3,913' GL + 23' KB @ 3936.00ft (T&B). Northing and Easting are relative to #2H.

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 00001971.

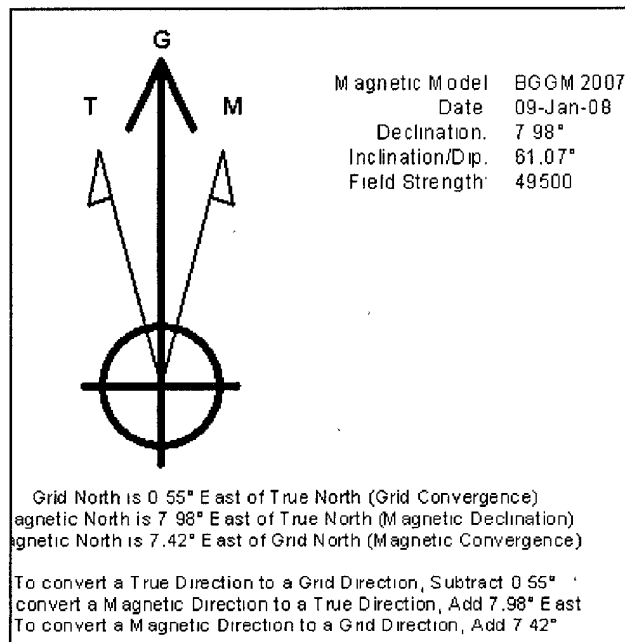
Grid Coordinates of Well: 735,752.10 ft N, 852,159.40 ft E.

Geographical Coordinates of Well: 33° 01' 06.46" N, 103° 19' 09.47" W.

Grid Convergence at Surface is: 0.55°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 12,441.21ft the Bottom Hole Displacement is 1,901.99ft in the Direction of 2.45° (Grid).

Magnetic Convergence at surface is -7.42° (9 January 2008, BGGM2007).



Cimarex Energy Company
#2H - Plan #1

30-025-38691

Lea County, NM
Caudill West "17" 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	-3936.00	0.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
30.00	0.000	0.000	-3906.00	30.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
60.00	0.000	0.000	-3876.00	60.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
90.00	0.000	0.000	-3846.00	90.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
120.00	0.000	0.000	-3816.00	120.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
150.00	0.000	0.000	-3786.00	150.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
180.00	0.000	0.000	-3756.00	180.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
210.00	0.000	0.000	-3726.00	210.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
240.00	0.000	0.000	-3696.00	240.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
270.00	0.000	0.000	-3666.00	270.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
300.00	0.000	0.000	-3636.00	300.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
330.00	0.000	0.000	-3606.00	330.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
360.00	0.000	0.000	-3576.00	360.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
390.00	0.000	0.000	-3546.00	390.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
420.00	0.000	0.000	-3516.00	420.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
450.00	0.000	0.000	-3486.00	450.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
480.00	0.000	0.000	-3456.00	480.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
510.00	0.000	0.000	-3426.00	510.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
540.00	0.000	0.000	-3396.00	540.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
570.00	0.000	0.000	-3366.00	570.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
600.00	0.000	0.000	-3336.00	600.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
630.00	0.000	0.000	-3306.00	630.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
660.00	0.000	0.000	-3276.00	660.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
690.00	0.000	0.000	-3246.00	690.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
720.00	0.000	0.000	-3216.00	720.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
750.00	0.000	0.000	-3186.00	750.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
780.00	0.000	0.000	-3156.00	780.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
810.00	0.000	0.000	-3126.00	810.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
840.00	0.000	0.000	-3096.00	840.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
870.00	0.000	0.000	-3066.00	870.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
900.00	0.000	0.000	-3036.00	900.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
930.00	0.000	0.000	-3006.00	930.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
960.00	0.000	0.000	-2976.00	960.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
990.00	0.000	0.000	-2946.00	990.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1020.00	0.000	0.000	-2916.00	1020.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1050.00	0.000	0.000	-2886.00	1050.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1080.00	0.000	0.000	-2856.00	1080.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1110.00	0.000	0.000	-2826.00	1110.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1140.00	0.000	0.000	-2796.00	1140.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1170.00	0.000	0.000	-2766.00	1170.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1200.00	0.000	0.000	-2736.00	1200.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1230.00	0.000	0.000	-2706.00	1230.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1260.00	0.000	0.000	-2676.00	1260.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1290.00	0.000	0.000	-2646.00	1290.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1320.00	0.000	0.000	-2616.00	1320.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1350.00	0.000	0.000	-2586.00	1350.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1380.00	0.000	0.000	-2556.00	1380.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1410.00	0.000	0.000	-2526.00	1410.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1440.00	0.000	0.000	-2496.00	1440.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1470.00	0.000	0.000	-2466.00	1470.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1500.00	0.000	0.000	-2436.00	1500.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1530.00	0.000	0.000	-2406.00	1530.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1560.00	0.000	0.000	-2376.00	1560.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1590.00	0.000	0.000	-2346.00	1590.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1620.00	0.000	0.000	-2316.00	1620.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1650.00	0.000	0.000	-2286.00	1650.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1680.00	0.000	0.000	-2256.00	1680.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1710.00	0.000	0.000	-2226.00	1710.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1740.00	0.000	0.000	-2196.00	1740.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1770.00	0.000	0.000	-2166.00	1770.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1800.00	0.000	0.000	-2136.00	1800.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1830.00	0.000	0.000	-2106.00	1830.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1860.00	0.000	0.000	-2076.00	1860.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1890.00	0.000	0.000	-2046.00	1890.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1920.00	0.000	0.000	-2016.00	1920.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1950.00	0.000	0.000	-1986.00	1950.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
1980.00	0.000	0.000	-1956.00	1980.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2010.00	0.000	0.000	-1926.00	2010.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2040.00	0.000	0.000	-1896.00	2040.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2070.00	0.000	0.000	-1866.00	2070.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2100.00	0.000	0.000	-1836.00	2100.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2130.00	0.000	0.000	-1806.00	2130.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2160.00	0.000	0.000	-1776.00	2160.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2190.00	0.000	0.000	-1746.00	2190.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2220.00	0.000	0.000	-1716.00	2220.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2250.00	0.000	0.000	-1686.00	2250.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2280.00	0.000	0.000	-1656.00	2280.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2310.00	0.000	0.000	-1626.00	2310.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2340.00	0.000	0.000	-1596.00	2340.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2370.00	0.000	0.000	-1566.00	2370.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2400.00	0.000	0.000	-1536.00	2400.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2430.00	0.000	0.000	-1506.00	2430.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2460.00	0.000	0.000	-1476.00	2460.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
2490.00	0.000	0.000	-1446.00	2490.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00

2520.00	0.000	0.000	-1416.00	2520.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2550.00	0.000	0.000	-1386.00	2550.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2580.00	0.000	0.000	-1356.00	2580.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2610.00	0.000	0.000	-1326.00	2610.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2640.00	0.000	0.000	-1296.00	2640.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2670.00	0.000	0.000	-1266.00	2670.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2700.00	0.000	0.000	-1236.00	2700.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2730.00	0.000	0.000	-1206.00	2730.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2760.00	0.000	0.000	-1176.00	2760.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2790.00	0.000	0.000	-1146.00	2790.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2820.00	0.000	0.000	-1116.00	2820.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2850.00	0.000	0.000	-1086.00	2850.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2880.00	0.000	0.000	-1056.00	2880.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2910.00	0.000	0.000	-1026.00	2910.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2940.00	0.000	0.000	-996.00	2940.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
2970.00	0.000	0.000	-966.00	2970.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3000.00	0.000	0.000	-936.00	3000.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3030.00	0.000	0.000	-906.00	3030.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3060.00	0.000	0.000	-876.00	3060.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3090.00	0.000	0.000	-846.00	3090.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3120.00	0.000	0.000	-816.00	3120.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3150.00	0.000	0.000	-786.00	3150.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3180.00	0.000	0.000	-756.00	3180.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3210.00	0.000	0.000	-726.00	3210.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3240.00	0.000	0.000	-696.00	3240.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3270.00	0.000	0.000	-666.00	3270.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3300.00	0.000	0.000	-636.00	3300.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3330.00	0.000	0.000	-606.00	3330.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00
3360.00	0.00													

5430.00	0.000	0.000	1494.00	5430.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5460.00	0.000	0.000	1524.00	5460.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5490.00	0.000	0.000	1554.00	5490.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5520.00	0.000	0.000	1584.00	5520.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5550.00	0.000	0.000	1614.00	5550.00	0.00	N	0	0	E	735752.100	N	852159.400	E	0.00	0.00
5580.00	0.000	0.000	1644.00	5580.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5610.00	0.000	0.000	1674.00	5610.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5640.00	0.000	0.000	1704.00	5640.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0	0	
5670.00	0.000	0.000	1734.00	5670.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5700.00	0.000	0.000	1764.00	5700.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5730.00	0.000	0.000	1794.00	5730.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5760.00	0.000	0.000	1824.00	5760.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5790.00	0.000	0.000	1854.00	5790.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5820.00	0.000	0.000	1884.00	5820.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5850.00	0.000	0.000	1914.00	5850.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5880.00	0.000	0.000	1944.00	5880.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5910.00	0.000	0.000	1974.00	5910.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5940.00	0.000	0.000	2004.00	5940.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
5970.00	0.000	0.000	2034.00	5970.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
6000.00	0.000	0.000	2064.00	6000.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
6030.00	0.000	0.000	2094.00	6030.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
6060.00	0.000	0.000	2124.00	6060.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
6090.00	0.000	0.000	2154.00	6090.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
6120.00	0.000	0.000	2184.00	6120.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
6150.00	0.000	0.000	2214.00	6150.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
6180.00	0.000	0.000	2244.00	6180.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
6210.00	0.000	0.000	2274.00	6210.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
6240.00	0.000	0.000	2304.00	6240.00	0.00	N	0.00	E	735752.100	N	852159.400	E	0.00	0.00	
6270.															

8340.00	0.000	0.000	4404.00	8340.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8370.00	0.000	0.000	4434.00	8370.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8400.00	0.000	0.000	4464.00	8400.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8430.00	0.000	0.000	4494.00	8430.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8460.00	0.000	0.000	4524.00	8460.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8490.00	0.000	0.000	4554.00	8490.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8520.00	0.000	0.000	4584.00	8520.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8550.00	0.000	0.000	4614.00	8550.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8580.00	0.000	0.000	4644.00	8580.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8610.00	0.000	0.000	4674.00	8610.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8640.00	0.000	0.000	4704.00	8640.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8670.00	0.000	0.000	4734.00	8670.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8700.00	0.000	0.000	4764.00	8700.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8730.00	0.000	0.000	4794.00	8730.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8760.00	0.000	0.000	4824.00	8760.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8790.00	0.000	0.000	4854.00	8790.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8820.00	0.000	0.000	4884.00	8820.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8850.00	0.000	0.000	4914.00	8850.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8880.00	0.000	0.000	4944.00	8880.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8910.00	0.000	0.000	4974.00	8910.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8940.00	0.000	0.000	5004.00	8940.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
8970.00	0.000	0.000	5034.00	8970.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9000.00	0.000	0.000	5064.00	9000.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9030.00	0.000	0.000	5094.00	9030.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9060.00	0.000	0.000	5124.00	9060.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9090.00	0.000	0.000	5154.00	9090.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9120.00	0.000	0.000	5184.00	9120.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9150.00	0.000	0.000	5214.00	9150.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9180.00	0.000	0.000	5244.00	9180.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9210.00	0.000	0.000	5274.00	9210.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9240.00	0.000	0.000	5304.00	9240.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9270.00	0.000	0.000	5334.00	9270.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9300.00	0.000	0.000	5364.00	9300.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9330.00	0.000	0.000	5394.00	9330.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9360.00	0.000	0.000	5424.00	9360.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9390.00	0.000	0.000	5454.00	9390.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9420.00	0.000	0.000	5484.00	9420.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9450.00	0.000	0.000	5514.00	9450.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9480.00	0.000	0.000	5544.00	9480.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9510.00	0.000	0.000	5574.00	9510.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9540.00	0.000	0.000	5604.00	9540.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9570.00	0.000	0.000	5634.00	9570.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9600.00	0.000	0.000	5664.00	9600.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9630.00	0.000	0.000	5694.00	9630.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9660.00	0.000	0.000	5724.00	9660.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9690.00	0.000	0.000	5754.00	9690.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9720.00	0.000	0.000	5784.00	9720.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9750.00	0.000	0.000	5814.00	9750.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9780.00	0.000	0.000	5844.00	9780.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9810.00	0.000	0.000	5874.00	9810.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9840.00	0.000	0.000	5904.00	9840.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9870.00	0.000	0.000	5934.00	9870.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9900.00	0.000	0.000	5964.00	9900.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9930.00	0.000	0.000	5994.00	9930.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9960.00	0.000	0.000	6024.00	9960.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
9990.00	0.000	0.000	6054.00	9990.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10020.00	0.000	0.000	6084.00	10020.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10050.00	0.000	0.000	6114.00	10050.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10080.00	0.000	0.000	6144.00	10080.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10110.00	0.000	0.000	6174.00	10110.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10140.00	0.000	0.000	6204.00	10140.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10170.00	0.000	0.000	6234.00	10170.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10200.00	0.000	0.000	6264.00	10200.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10230.00	0.000	0.000	6294.00	10230.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10260.00	0.000	0.000	6324.00	10260.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10290.00	0.000	0.000	6354.00	10290.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10320.00	0.000	0.000	6384.00	10320.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10350.00	0.000	0.000	6414.00	10350.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10380.00	0.000	0.000	6444.00	10380.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10410.00	0.000	0.000	6474.00	10410.00	0.00 N	0.00 E	735752.100 N	852159.400 E	0.00	0.00
10440.00	2.989	2.455	6504.00	10440.00	0.26 N	0.01 E	735752.360 N	852159.411 E	0.26	9.96
10470.00	11.989	2.455	6533.71	10469.71	4.16 N	0.18 E	735756.262 N	852159.578 E	4.17	30.00
10500.00	20.989	2.455	6562.45	10498.45	12.66 N	0.54 E	735764.761 N	852159.943 E	12.67	30.00
10530.00	29.989	2.455	6589.50	10525.50	25.55 N	1.10 E	735777.646 N	852160.495 E	25.57	30.00
10560.00	38.989	2.455	6614.20	10550.20	42.50 N	1.82 E	735794.600 N	852161.222 E	42.54	30.00
10590.00	47.989	2.455	6635.94	10571.94	63.11 N	2.71 E	735815.206 N	852162.105 E	63.16	30.00
10620.00	56.989	2.455	6654.19	10590.19	86.86 N	3.72 E	735838.957 N	852163.123 E	86.94	30.00
10650.00	65.989	2.455	6668.50	10604.50	113.17 N	4.85 E	735865.268 N	852164.251 E	113.27	30.00
10680.00	74.989	2.455	6678.51	10614.51	141.39 N	6.06 E	735893.490 N	852165.461 E	141.52	30.00
10710.00	83.989	2.455	6683.97	10619.97	170.83 N	7.32 E	735922.929 N	852166.723 E	170.99	30.00
10740.00	90.805	2.455	6684.90	10620.90	200.76 N	8.61 E	735952.864 N	852168.006 E	200.95	22.72
10770.00	90.805	2.455	6684.48	10620.48	230.73 N	9.89 E	735982.834 N	852169.291 E	230.95	0.00
10800.00	90.805	2.455	6684.06	10620.06	260.70 N	11.18 E	736012.803 N	852170.576 E	260.94	0.00
10830.00	90.805	2.455	6683.64	10619.64	290.67 N	12.46 E	736042.773 N	852171.861 E	290.94	0.00
10860.00	90.805	2.455	6683.22	10619.22	320.64 N	13.75 E	736072.742 N	852173.145 E	320.94	0.00
10890.00	90.805	2.455	6682.79	10618.79	350.61 N	15.03 E	736102.712 N	852174.430 E	350.93	0.00
10920.00	90.805	2.455	6682.37	10618.37	380.58 N	16.31 E	736132.682 N	852175.715 E	380.93	0.00
10950.00	90.805	2.455	6681.95	10617.95	410.55 N	17.60 E	736162.651 N	852177.000 E	410.93	0.00
10980.00	90.805	2.455	6681.53	10617.53	440.52 N	18.88 E	736192.621 N	852178.284 E	440.93	0.00
11010.00	90.805	2.455	6681.11	10617.11	470.49 N	20.17 E	736222.590 N	852179.569 E	470.92	0.00
11040.00	90.805	2.455	6680.69	10616.69	500.46 N	21.45 E	736252.560 N	852180.854 E	500.92	0.00
11070.00	90.805	2.455	6680.26	10616.26	530.43 N	22.74 E	736282.529 N	852182.138 E	530.92	0.00
11100.00	90.805	2.455	6679.84	10615.84	560.40 N	24.02 E				

11250.00	90.805	2.455	6677.74	10613.74	710.25 N	30.45 E	736462.346 N	852189.847 E	710.90	0.00
11280.00	90.805	2.455	6677.31	10613.31	740.22 N	31.73 E	736492.316 N	852191.132 E	740.90	0.00
11310.00	90.805	2.455	6676.89	10612.89	770.19 N	33.02 E	736522.285 N	852192.416 E	770.89	0.00
11340.00	90.805	2.455	6676.47	10612.47	800.15 N	34.30 E	736552.255 N	852193.701 E	800.89	0.00
11370.00	90.805	2.455	6676.05	10612.05	830.12 N	35.59 E	736582.224 N	852194.986 E	830.89	0.00
11400.00	90.805	2.455	6675.63	10611.63	860.09 N	36.87 E	736612.194 N	852196.271 E	860.88	0.00
11430.00	90.805	2.455	6675.21	10611.21	890.06 N	38.16 E	736642.163 N	852197.555 E	890.88	0.00
11460.00	90.805	2.455	6674.79	10610.79	920.03 N	39.44 E	736672.133 N	852198.840 E	920.88	0.00
11490.00	90.805	2.455	6674.36	10610.36	950.00 N	40.72 E	736702.102 N	852200.125 E	950.87	0.00
11520.00	90.805	2.455	6673.94	10609.94	979.97 N	42.01 E	736732.072 N	852201.409 E	980.87	0.00
11550.00	90.805	2.455	6673.52	10609.52	1009.94 N	43.29 E	736762.041 N	852202.694 E	1010.87	0.00
11580.00	90.805	2.455	6673.10	10609.10	1039.91 N	44.58 E	736792.011 N	852203.979 E	1040.87	0.00
11610.00	90.805	2.455	6672.68	10608.68	1069.88 N	45.86 E	736821.980 N	852205.264 E	1070.86	0.00
11640.00	90.805	2.455	6672.26	10608.26	1099.85 N	47.15 E	736851.950 N	852206.548 E	1100.86	0.00
11670.00	90.805	2.455	6671.84	10607.84	1129.82 N	48.43 E	736881.919 N	852207.833 E	1130.86	0.00
11700.00	90.805	2.455	6671.41	10607.41	1159.79 N	49.72 E	736911.889 N	852209.118 E	1160.85	0.00
11730.00	90.805	2.455	6670.99	10606.99	1189.76 N	51.00 E	736941.858 N	852210.403 E	1190.85	0.00
11760.00	90.805	2.455	6670.57	10606.57	1219.73 N	52.29 E	736971.828 N	852211.687 E	1220.85	0.00
11790.00	90.805	2.455	6670.15	10606.15	1249.70 N	53.57 E	737001.797 N	852212.972 E	1250.85	0.00
11820.00	90.805	2.455	6669.73	10605.73	1279.67 N	54.86 E	737031.767 N	852214.257 E	1280.84	0.00
11850.00	90.805	2.455	6669.31	10605.31	1309.64 N	56.14 E	737061.736 N	852215.542 E	1310.84	0.00
11880.00	90.805	2.455	6668.88	10604.88	1339.61 N	57.43 E	737091.706 N	852216.826 E	1340.84	0.00
11910.00	90.805	2.455	6668.46	10604.46	1369.58 N	58.71 E	737121.676 N	852218.111 E	1370.83	0.00
11940.00	90.805	2.455	6668.04	10604.04	1399.55 N	60.00 E	737151.645 N	852219.396 E	1400.83	0.00
11970.00	90.805	2.455	6667.62	10603.62	1429.51 N	61.28 E	737181.615 N	852220.680 E	1430.83	0.00
12000.00	90.805	2.455	6667.20	10603.20	1459.48 N	62.57 E	737211.584 N	852221.965 E	1460.82	0.00
12030.00	90.805	2.455	6666.78	10602.78	1489.45 N	63.85 E	737241.554 N	852223.250 E	1490.82	0.00
12060.00	90.805	2.455	6666.36	10602.36	1519.42 N	65.13 E	737271.523 N	852224.535 E	1520.82	0.00
12090.00	90.805	2.455	6665.93	10601.93	1549.39 N	66.42 E	737301.493 N	852225.819 E	1550.82	0.00
12120.00	90.805	2.455	6665.51	10601.51	1579.36 N	67.70 E	737331.462 N	852227.104 E	1580.81	0.00
12150.00	90.805	2.455	6665.09	10601.09	1609.33 N	68.99 E	737361.432 N	852228.389 E	1610.81	0.00
12180.00	90.805	2.455	6664.67	10600.67	1639.30 N	70.27 E	737391.401 N	852229.674 E	1640.81	0.00
12210.00	90.805	2.455	6664.25	10600.25	1669.27 N	71.56 E	737421.371 N	852230.958 E	1670.80	0.00
12240.00	90.805	2.455	6663.83	10599.83	1699.24 N	72.84 E	737451.340 N	852232.243 E	1700.80	0.00
12270.00	90.805	2.455	6663.41	10599.41	1729.21 N	74.13 E	737481.310 N	852233.528 E	1730.80	0.00
12300.00	90.805	2.455	6662.98	10598.98	1759.18 N	75.41 E	737511.279 N	852234.813 E	1760.79	0.00
12330.00	90.805	2.455	6662.56	10598.56	1789.15 N	76.70 E	737541.249 N	852236.097 E	1790.79	0.00
12360.00	90.805	2.455	6662.14	10598.14	1819.12 N	77.98 E	737571.218 N	852237.382 E	1820.79	0.00
12390.00	90.805	2.455	6661.72	10597.72	1849.09 N	79.27 E	737601.188 N	852238.667 E	1850.79	0.00
12420.00	90.805	2.455	6661.30	10597.30	1879.06 N	80.55 E	737631.157 N	852239.952 E	1880.78	0.00
12441.21	90.805	2.455	6661.00	10597.00	1900.25 N	81.46 E	737652.350 N	852240.860 E	1902.00	0.00

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to 3,913' 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 2.455° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.
Grid Convergence at Surface is 0.553°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 12441.21ft.,
the Bottom Hole Displacement is 1902.00ft., in the Direction of 2.455° (Grid).