

Devon Energy
Planning Report

HOBBS CO

OCT 03 2016

RECEIVED

Database:	EDM r5000 US Production	Local Co-ordinate Reference:	Well Thistle Unit 113H
Company:	WESTERN DIVISION	TVD Reference:	RKB @ 3667.70ft
Project:	PBNM	MD Reference:	RKB @ 3667.70ft
Site:	Norwalk	North Reference:	Grid
Well:	Thistle Unit 113H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	PBNM		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Norwalk					
Site Position:		Northing:	0.00 usft	Latitude:	30.988446	
From:	Map	Easting:	0.00 usft	Longitude:	-106.060830	
Position Uncertainty:		0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.89

Well	Thistle Unit 113H					
Well Position	+N/-S	457,212.51 ft	Northing:	457,211.60 usft	Latitude:	32.254570
	+E/-W	781,036.54 ft	Easting:	781,034.98 usft	Longitude:	-103.557946
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	3,642.70 ft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/31/2009	7.75	60.27	48,811

Design	Design #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	4.58	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	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	
9,134.04	0.00	0.00	9,134.04	0.00	0.00	0.00	0.00	0.00	0.00	
10,034.04	90.00	4.58	9,707.00	571.13	45.76	10.00	10.00	0.00	4.58	
17,159.07	90.00	4.58	9,707.00	7,673.40	614.81	0.00	0.00	0.00	0.00	BHL_Thistle 113

Devon Energy

Planning Report

Database:	EDM r5000 US Production	Local Co-ordinate Reference:	Well Thistle Unit 113H
Company:	WESTERN DIVISION	TVD Reference:	RKB @ 3667.70ft
Project:	PBNM	MD Reference:	RKB @ 3667.70ft
Site:	Norwalk	North Reference:	Grid
Well:	Thistle Unit 113H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	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
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
1,000.00	0.00	0.00	1,000.00	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
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
4,500.00	0.00	0.00	4,500.00	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
4,700.00	0.00	0.00	4,700.00	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
4,900.00	0.00	0.00	4,900.00	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
5,100.00	0.00	0.00	5,100.00	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
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Devon Energy

Planning Report

Database:	EDM r5000 US Production	Local Co-ordinate Reference:	Well Thistle Unit 113H
Company:	WESTERN DIVISION	TVD Reference:	RKB @ 3667.70ft
Project:	PBNM	MD Reference:	RKB @ 3667.70ft
Site:	Norwalk	North Reference:	Grid
Well:	Thistle Unit 113H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	0.00	0.00	5,400.00	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
5,600.00	0.00	0.00	5,600.00	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
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	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
6,100.00	0.00	0.00	6,100.00	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
6,300.00	0.00	0.00	6,300.00	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
6,500.00	0.00	0.00	6,500.00	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
6,700.00	0.00	0.00	6,700.00	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
6,900.00	0.00	0.00	6,900.00	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
7,100.00	0.00	0.00	7,100.00	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
7,300.00	0.00	0.00	7,300.00	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
7,500.00	0.00	0.00	7,500.00	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
7,700.00	0.00	0.00	7,700.00	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
7,900.00	0.00	0.00	7,900.00	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
8,100.00	0.00	0.00	8,100.00	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
8,300.00	0.00	0.00	8,300.00	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
8,500.00	0.00	0.00	8,500.00	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
8,700.00	0.00	0.00	8,700.00	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
8,900.00	0.00	0.00	8,900.00	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
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,134.04	0.00	0.00	9,134.04	0.00	0.00	0.00	0.00	0.00	0.00
9,150.00	1.60	4.58	9,150.00	0.22	0.02	0.22	10.00	10.00	0.00
9,200.00	6.60	4.58	9,199.85	3.78	0.30	3.79	10.00	10.00	0.00
9,250.00	11.60	4.58	9,249.21	11.66	0.93	11.69	10.00	10.00	0.00
9,300.00	16.60	4.58	9,297.69	23.79	1.91	23.87	10.00	10.00	0.00
9,350.00	21.60	4.58	9,344.92	40.09	3.21	40.22	10.00	10.00	0.00
9,400.00	26.60	4.58	9,390.55	60.43	4.84	60.63	10.00	10.00	0.00
9,450.00	31.60	4.58	9,434.23	84.66	6.78	84.93	10.00	10.00	0.00
9,500.00	36.60	4.58	9,475.62	112.59	9.02	112.95	10.00	10.00	0.00
9,550.00	41.60	4.58	9,514.41	144.01	11.54	144.47	10.00	10.00	0.00
9,600.00	46.60	4.58	9,550.31	178.68	14.32	179.26	10.00	10.00	0.00
9,650.00	51.60	4.58	9,583.04	216.34	17.33	217.03	10.00	10.00	0.00
9,700.00	56.60	4.58	9,612.35	256.70	20.57	257.52	10.00	10.00	0.00
9,750.00	61.60	4.58	9,638.02	299.45	23.99	300.41	10.00	10.00	0.00
9,800.00	66.60	4.58	9,659.86	344.27	27.58	345.37	10.00	10.00	0.00
9,850.00	71.60	4.58	9,677.69	390.81	31.31	392.06	10.00	10.00	0.00

Devon Energy

Planning Report

Database:	EDM r5000 US Production	Local Co-ordinate Reference:	Well Thistle Unit 113H
Company:	WESTERN DIVISION	TVD Reference:	RKB @ 3667.70ft
Project:	PBNM	MD Reference:	RKB @ 3667.70ft
Site:	Norwalk	North Reference:	Grid
Well:	Thistle Unit 113H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,900.00	76.60	4.58	9,691.39	438.73	35.15	440.14	10.00	10.00	0.00
9,950.00	81.60	4.58	9,700.85	487.65	39.07	489.22	10.00	10.00	0.00
10,000.00	86.60	4.58	9,705.99	537.21	43.04	538.94	10.00	10.00	0.00
10,034.04	90.00	4.58	9,707.00	571.13	45.76	572.96	10.00	10.00	0.00
10,100.00	90.00	4.58	9,707.00	636.88	51.03	638.92	0.00	0.00	0.00
10,200.00	90.00	4.58	9,707.00	736.56	59.01	738.92	0.00	0.00	0.00
10,300.00	90.00	4.58	9,707.00	836.24	67.00	838.92	0.00	0.00	0.00
10,400.00	90.00	4.58	9,707.00	935.92	74.99	938.92	0.00	0.00	0.00
10,500.00	90.00	4.58	9,707.00	1,035.60	82.97	1,038.92	0.00	0.00	0.00
10,600.00	90.00	4.58	9,707.00	1,135.28	90.96	1,138.92	0.00	0.00	0.00
10,700.00	90.00	4.58	9,707.00	1,234.96	98.95	1,238.92	0.00	0.00	0.00
10,800.00	90.00	4.58	9,707.00	1,334.64	106.93	1,338.92	0.00	0.00	0.00
10,900.00	90.00	4.58	9,707.00	1,434.32	114.92	1,438.92	0.00	0.00	0.00
11,000.00	90.00	4.58	9,707.00	1,534.00	122.91	1,538.92	0.00	0.00	0.00
11,100.00	90.00	4.58	9,707.00	1,633.68	130.89	1,638.92	0.00	0.00	0.00
11,200.00	90.00	4.58	9,707.00	1,733.36	138.88	1,738.92	0.00	0.00	0.00
11,300.00	90.00	4.58	9,707.00	1,833.04	146.87	1,838.92	0.00	0.00	0.00
11,400.00	90.00	4.58	9,707.00	1,932.72	154.85	1,938.92	0.00	0.00	0.00
11,500.00	90.00	4.58	9,707.00	2,032.40	162.84	2,038.92	0.00	0.00	0.00
11,600.00	90.00	4.58	9,707.00	2,132.08	170.83	2,138.92	0.00	0.00	0.00
11,700.00	90.00	4.58	9,707.00	2,231.76	178.81	2,238.92	0.00	0.00	0.00
11,800.00	90.00	4.58	9,707.00	2,331.44	186.80	2,338.92	0.00	0.00	0.00
11,900.00	90.00	4.58	9,707.00	2,431.13	194.79	2,438.92	0.00	0.00	0.00
12,000.00	90.00	4.58	9,707.00	2,530.81	202.77	2,538.92	0.00	0.00	0.00
12,100.00	90.00	4.58	9,707.00	2,630.49	210.76	2,638.92	0.00	0.00	0.00
12,200.00	90.00	4.58	9,707.00	2,730.17	218.75	2,738.92	0.00	0.00	0.00
12,300.00	90.00	4.58	9,707.00	2,829.85	226.73	2,838.92	0.00	0.00	0.00
12,400.00	90.00	4.58	9,707.00	2,929.53	234.72	2,938.92	0.00	0.00	0.00
12,500.00	90.00	4.58	9,707.00	3,029.21	242.71	3,038.92	0.00	0.00	0.00
12,600.00	90.00	4.58	9,707.00	3,128.89	250.69	3,138.92	0.00	0.00	0.00
12,700.00	90.00	4.58	9,707.00	3,228.57	258.68	3,238.92	0.00	0.00	0.00
12,800.00	90.00	4.58	9,707.00	3,328.25	266.67	3,338.92	0.00	0.00	0.00
12,900.00	90.00	4.58	9,707.00	3,427.93	274.65	3,438.92	0.00	0.00	0.00
13,000.00	90.00	4.58	9,707.00	3,527.61	282.64	3,538.92	0.00	0.00	0.00
13,100.00	90.00	4.58	9,707.00	3,627.29	290.63	3,638.92	0.00	0.00	0.00
13,200.00	90.00	4.58	9,707.00	3,726.97	298.61	3,738.92	0.00	0.00	0.00
13,300.00	90.00	4.58	9,707.00	3,826.65	306.60	3,838.92	0.00	0.00	0.00
13,400.00	90.00	4.58	9,707.00	3,926.33	314.59	3,938.92	0.00	0.00	0.00
13,500.00	90.00	4.58	9,707.00	4,026.01	322.57	4,038.92	0.00	0.00	0.00
13,600.00	90.00	4.58	9,707.00	4,125.69	330.56	4,138.92	0.00	0.00	0.00
13,700.00	90.00	4.58	9,707.00	4,225.38	338.55	4,238.92	0.00	0.00	0.00
13,800.00	90.00	4.58	9,707.00	4,325.06	346.53	4,338.92	0.00	0.00	0.00
13,900.00	90.00	4.58	9,707.00	4,424.74	354.52	4,438.92	0.00	0.00	0.00
14,000.00	90.00	4.58	9,707.00	4,524.42	362.51	4,538.92	0.00	0.00	0.00
14,100.00	90.00	4.58	9,707.00	4,624.10	370.49	4,638.92	0.00	0.00	0.00
14,200.00	90.00	4.58	9,707.00	4,723.78	378.48	4,738.92	0.00	0.00	0.00
14,300.00	90.00	4.58	9,707.00	4,823.46	386.47	4,838.92	0.00	0.00	0.00
14,400.00	90.00	4.58	9,707.00	4,923.14	394.45	4,938.92	0.00	0.00	0.00
14,500.00	90.00	4.58	9,707.00	5,022.82	402.44	5,038.92	0.00	0.00	0.00
14,600.00	90.00	4.58	9,707.00	5,122.50	410.42	5,138.92	0.00	0.00	0.00
14,700.00	90.00	4.58	9,707.00	5,222.18	418.41	5,238.92	0.00	0.00	0.00
14,800.00	90.00	4.58	9,707.00	5,321.86	426.40	5,338.92	0.00	0.00	0.00
14,900.00	90.00	4.58	9,707.00	5,421.54	434.38	5,438.92	0.00	0.00	0.00
15,000.00	90.00	4.58	9,707.00	5,521.22	442.37	5,538.92	0.00	0.00	0.00

Devon Energy

Planning Report

Database:	EDM r5000 US Production	Local Co-ordinate Reference:	Well Thistle Unit 113H
Company:	WESTERN DIVISION	TVD Reference:	RKB @ 3667.70ft
Project:	PBNM	MD Reference:	RKB @ 3667.70ft
Site:	Norwalk	North Reference:	Grid
Well:	Thistle Unit 113H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
15,100.00	90.00	4.58	9,707.00	5,620.90	450.36	5,638.92	0.00	0.00	0.00
15,200.00	90.00	4.58	9,707.00	5,720.58	458.34	5,738.92	0.00	0.00	0.00
15,300.00	90.00	4.58	9,707.00	5,820.26	466.33	5,838.92	0.00	0.00	0.00
15,400.00	90.00	4.58	9,707.00	5,919.94	474.32	5,938.92	0.00	0.00	0.00
15,500.00	90.00	4.58	9,707.00	6,019.63	482.30	6,038.92	0.00	0.00	0.00
15,600.00	90.00	4.58	9,707.00	6,119.31	490.29	6,138.92	0.00	0.00	0.00
15,700.00	90.00	4.58	9,707.00	6,218.99	498.28	6,238.92	0.00	0.00	0.00
15,800.00	90.00	4.58	9,707.00	6,318.67	506.26	6,338.92	0.00	0.00	0.00
15,900.00	90.00	4.58	9,707.00	6,418.35	514.25	6,438.92	0.00	0.00	0.00
16,000.00	90.00	4.58	9,707.00	6,518.03	522.24	6,538.92	0.00	0.00	0.00
16,100.00	90.00	4.58	9,707.00	6,617.71	530.22	6,638.92	0.00	0.00	0.00
16,200.00	90.00	4.58	9,707.00	6,717.39	538.21	6,738.92	0.00	0.00	0.00
16,300.00	90.00	4.58	9,707.00	6,817.07	546.20	6,838.92	0.00	0.00	0.00
16,400.00	90.00	4.58	9,707.00	6,916.75	554.18	6,938.92	0.00	0.00	0.00
16,500.00	90.00	4.58	9,707.00	7,016.43	562.17	7,038.92	0.00	0.00	0.00
16,600.00	90.00	4.58	9,707.00	7,116.11	570.16	7,138.92	0.00	0.00	0.00
16,700.00	90.00	4.58	9,707.00	7,215.79	578.14	7,238.92	0.00	0.00	0.00
16,800.00	90.00	4.58	9,707.00	7,315.47	586.13	7,338.92	0.00	0.00	0.00
16,900.00	90.00	4.58	9,707.00	7,415.15	594.12	7,438.92	0.00	0.00	0.00
17,000.00	90.00	4.58	9,707.00	7,514.83	602.10	7,538.92	0.00	0.00	0.00
17,100.00	90.00	4.58	9,707.00	7,614.51	610.09	7,638.92	0.00	0.00	0.00
17,159.07	90.00	4.58	9,707.00	7,673.40	614.81	7,697.99	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL_Thistle 113	0.00	0.00	9,707.00	7,673.40	614.81	464,884.98	781,649.79	32.275650	-103.555778
- plan hits target center									
- Point									