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NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 12 2019

RECEIVED

NORTHERN DELAWARE BASIN

EDDY COUNTY, NM

TOMAHAWK

EIGHTY SIX SOX ST COM #801H

OWB

30-015-45786

Plan: PWP0

Standard Planning Report

11 March, 2019

Database:	EDM_Users	Local Co-ordinate Reference:	Well EIGHTY SIX SOX ST COM #801H
Company:	NORTHERN DELAWARE BASIN	TVD Reference:	RKB=26+3191 @ 3217.0usft (lcd 205)
Project:	EDDY COUNTY, NM	MD Reference:	RKB=26+3191 @ 3217.0usft (lcd 205)
Site:	TOMAHAWK	North Reference:	Grid
Well:	EIGHTY SIX SOX ST COM #801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	EDDY COUNTY, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	TOMAHAWK				
Site Position:		Northing:	445,736.96 usft	Latitude:	32° 13' 31.222 N
From:	Map	Easting:	551,227.25 usft	Longitude:	104° 10' 3.630 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.09 °

Well	EIGHTY SIX SOX ST COM #801H				
Well Position	+N/-S	10,137.5 usft	Northing:	455,874.50 usft	Latitude: 32° 15' 11.625 N
	+E/-W	-5,434.5 usft	Easting:	545,792.70 usft	Longitude: 104° 11' 6.734 W
Position Uncertainty	3.0 usft		Wellhead Elevation:		Ground Level: 3,185.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM2015	2/7/2019	7.09	59.95	47,706.29388094

Design	PWP0				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	180.50	

Plan Survey Tool Program		Date: 3/7/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	14,567.2 PWP0 (OWB)	MWD		
			OWSG MWD - Standard		

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,577.0	0.00	0.00	9,577.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,804.8	90.00	181.00	9,722.0	-145.0	-2.5	39.51	39.51	0.00	181.00	
9,832.5	90.21	180.48	9,722.0	-172.7	-2.9	2.00	0.74	-1.86	-68.31	
14,567.2	90.21	180.48	9,705.0	-4,907.2	-42.9	0.00	0.00	0.00	0.00	PBHL-Eighty Six Sox



Planning Report

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Company:	NORTHERN DELAWARE BASIN	TVD Reference:	RKB=26+3191 @ 3217.0usft (icd 205)
Project:	EDDY COUNTY, NM	MD Reference:	RKB=26+3191 @ 3217.0usft (icd 205)
Site:	TOMAHAWK	North Reference:	Grid
Well:	EIGHTY SIX SOX ST COM #801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	

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Wellbore:	OWB		
Design:	PWP0		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,577.0	0.00	0.00	9,577.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	8.09	181.00	9,599.9	-1.8	0.0	1.8	39.51	39.51	0.00
9,700.0	48.60	181.00	9,685.8	-49.1	-0.9	49.1	39.51	39.51	0.00
9,800.0	88.12	181.00	9,721.9	-140.2	-2.4	140.2	39.51	39.51	0.00
9,804.8	90.00	181.00	9,722.0	-145.0	-2.5	145.0	39.51	39.51	0.00
9,832.5	90.21	180.48	9,722.0	-172.7	-2.9	172.7	2.00	0.74	-1.86
9,900.0	90.21	180.48	9,721.7	-240.2	-3.5	240.2	0.00	0.00	0.00
10,000.0	90.21	180.48	9,721.4	-340.2	-4.3	340.2	0.00	0.00	0.00
10,100.0	90.21	180.48	9,721.0	-440.2	-5.2	440.2	0.00	0.00	0.00
10,200.0	90.21	180.48	9,720.6	-540.2	-6.0	540.2	0.00	0.00	0.00
10,300.0	90.21	180.48	9,720.3	-640.2	-6.8	640.2	0.00	0.00	0.00
10,400.0	90.21	180.48	9,719.9	-740.2	-7.7	740.2	0.00	0.00	0.00

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Site:	TOMAHAWK	North Reference:	Grid
Well:	EIGHTY SIX SOX ST COM #801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWPO		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,500.0	90.21	180.48	9,719.6	-840.2	-8.5	840.2	0.00	0.00	0.00	
10,600.0	90.21	180.48	9,719.2	-940.2	-9.4	940.2	0.00	0.00	0.00	
10,700.0	90.21	180.48	9,718.8	-1,040.2	-10.2	1,040.2	0.00	0.00	0.00	
10,800.0	90.21	180.48	9,718.5	-1,140.2	-11.1	1,140.2	0.00	0.00	0.00	
10,900.0	90.21	180.48	9,718.1	-1,240.2	-11.9	1,240.2	0.00	0.00	0.00	
11,000.0	90.21	180.48	9,717.8	-1,340.2	-12.8	1,340.2	0.00	0.00	0.00	
11,100.0	90.21	180.48	9,717.4	-1,440.2	-13.6	1,440.2	0.00	0.00	0.00	
11,200.0	90.21	180.48	9,717.1	-1,540.2	-14.4	1,540.2	0.00	0.00	0.00	
11,300.0	90.21	180.48	9,716.7	-1,640.1	-15.3	1,640.2	0.00	0.00	0.00	
11,400.0	90.21	180.48	9,716.3	-1,740.1	-16.1	1,740.2	0.00	0.00	0.00	
11,500.0	90.21	180.48	9,716.0	-1,840.1	-17.0	1,840.2	0.00	0.00	0.00	
11,600.0	90.21	180.48	9,715.6	-1,940.1	-17.8	1,940.2	0.00	0.00	0.00	
11,700.0	90.21	180.48	9,715.3	-2,040.1	-18.7	2,040.2	0.00	0.00	0.00	
11,800.0	90.21	180.48	9,714.9	-2,140.1	-19.5	2,140.2	0.00	0.00	0.00	
11,900.0	90.21	180.48	9,714.5	-2,240.1	-20.4	2,240.2	0.00	0.00	0.00	
12,000.0	90.21	180.48	9,714.2	-2,340.1	-21.2	2,340.2	0.00	0.00	0.00	
12,100.0	90.21	180.48	9,713.8	-2,440.1	-22.1	2,440.2	0.00	0.00	0.00	
12,200.0	90.21	180.48	9,713.5	-2,540.1	-22.9	2,540.2	0.00	0.00	0.00	
12,300.0	90.21	180.48	9,713.1	-2,640.1	-23.7	2,640.2	0.00	0.00	0.00	
12,400.0	90.21	180.48	9,712.8	-2,740.1	-24.6	2,740.2	0.00	0.00	0.00	
12,500.0	90.21	180.48	9,712.4	-2,840.1	-25.4	2,840.2	0.00	0.00	0.00	
12,600.0	90.21	180.48	9,712.0	-2,940.1	-26.3	2,940.2	0.00	0.00	0.00	
12,700.0	90.21	180.48	9,711.7	-3,040.1	-27.1	3,040.2	0.00	0.00	0.00	
12,800.0	90.21	180.48	9,711.3	-3,140.1	-28.0	3,140.2	0.00	0.00	0.00	
12,900.0	90.21	180.48	9,711.0	-3,240.1	-28.8	3,240.2	0.00	0.00	0.00	
13,000.0	90.21	180.48	9,710.6	-3,340.1	-29.7	3,340.2	0.00	0.00	0.00	
13,100.0	90.21	180.48	9,710.3	-3,440.1	-30.5	3,440.2	0.00	0.00	0.00	
13,200.0	90.21	180.48	9,709.9	-3,540.1	-31.3	3,540.2	0.00	0.00	0.00	
13,300.0	90.21	180.48	9,709.5	-3,640.1	-32.2	3,640.2	0.00	0.00	0.00	
13,400.0	90.21	180.48	9,709.2	-3,740.1	-33.0	3,740.2	0.00	0.00	0.00	
13,500.0	90.21	180.48	9,708.8	-3,840.1	-33.9	3,840.2	0.00	0.00	0.00	
13,600.0	90.21	180.48	9,708.5	-3,940.1	-34.7	3,940.2	0.00	0.00	0.00	
13,700.0	90.21	180.48	9,708.1	-4,040.0	-35.6	4,040.2	0.00	0.00	0.00	
13,800.0	90.21	180.48	9,707.7	-4,140.0	-36.4	4,140.2	0.00	0.00	0.00	
13,900.0	90.21	180.48	9,707.4	-4,240.0	-37.3	4,240.2	0.00	0.00	0.00	
14,000.0	90.21	180.48	9,707.0	-4,340.0	-38.1	4,340.2	0.00	0.00	0.00	
14,100.0	90.21	180.48	9,706.7	-4,440.0	-39.0	4,440.2	0.00	0.00	0.00	
14,200.0	90.21	180.48	9,706.3	-4,540.0	-39.8	4,540.2	0.00	0.00	0.00	
14,300.0	90.21	180.48	9,706.0	-4,640.0	-40.6	4,640.2	0.00	0.00	0.00	
14,400.0	90.21	180.48	9,705.6	-4,740.0	-41.5	4,740.2	0.00	0.00	0.00	
14,500.0	90.21	180.48	9,705.2	-4,840.0	-42.3	4,840.2	0.00	0.00	0.00	
14,567.2	90.21	180.48	9,705.0	-4,907.2	-42.9	4,907.4	0.00	0.00	0.00	

Database:	EDM_Users	Local Co-ordinate Reference:	Well EIGHTY SIX SOX ST COM #801H
Company:	NORTHERN DELAWARE BASIN	TVD Reference:	RKB=26+3191 @ 3217.0usft (icd 205)
Project:	EDDY COUNTY, NM	MD Reference:	RKB=26+3191 @ 3217.0usft (icd 205)
Site:	TOMAHAWK	North Reference:	Grid
Well:	EIGHTY SIX SOX ST COM #801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets

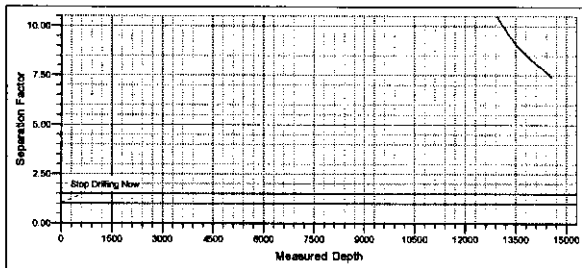
Target Name	hit/miss target	Dip Angle	Dip Dir	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
	Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL-Eighty Six Sox St		0.00	0.00	9,705.0	-4,907.2	-42.9	450,967.30	545,749.80	32° 14' 23.062 N	104° 11' 7.312 W
- plan hits target center										
- Point										
LTP-Eighty Six Sox St C		0.00	0.00	9,705.0	-4,777.2	-41.8	451,097.30	545,750.90	32° 14' 24.349 N	104° 11' 7.298 W
- plan misses target center by 0.5usft at 14437.2usft MD (9705.5 TVD, -4777.2 N, -41.8 E)										
- Point										
FTP-Eighty Six Sox St C		0.00	0.00	9,725.0	-105.0	-0.9	455,769.50	545,791.80	32° 15' 10.586 N	104° 11' 6.746 W
- plan misses target center by 8.5usft at 9767.7usft MD (9717.3 TVD, -108.4 N, -1.9 E)										
- Point										



LEGEND

Project: EDDY COUNTY, NM
 Site: TOMAHAWK
 Well: EIGHTY SIX SIX ST COM #801H
 Wellbore: OWB
 Design: PWP0

ROADSTER ST COM #1H, OWB, ACTUAL WELLPATH V0
 PWP0



SECTION DETAILS

Sec	MD	Inc	TVDazi	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.0	
2	9577.0	0.00	0.00	9577.0	0.0	0.00	0.00	0.0	
3	9804.8	90.00	181.00	9722.0	-145.0	-2.5	39.51	181.00	145.0
4	9832.5	90.21	180.48	9722.0	-172.7	-2.9	2.00	-68.31	172.7
5	14587.2	90.21	180.48	9705.0	-4907.2	-42.9	0.00	4907.4	PBHL-Eighty Six Six S

