



**NM OIL CONSERVATION
ARTESIA DISTRICT**

OCT 18 2018

RECEIVED

EOG Resources - Midland

Eddy County, NM (NAD 83 NME)

Torpedo 11 State Com

#701H

30-015-45359

OH

Plan: Plan #0.1

Standard Planning Report

15 October, 2018

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Eddy County, NM (NAD 83 NME)
 Site: Torpedo 11 State Com
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 3208.0usft
 MD Reference: KB = 25 @ 3208.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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

Site	Torpedo 11 State Com			
Site Position:		Northing:	418,848.00 usft	Latitude: 32° 9' 4.984 N
From:	Map	Easting:	592,304.00 usft	Longitude: 104° 10' 7.132 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.09 °

Well	#701H			
Well Position	+N/-S	0.0 usft	Northing:	418,848.00 usft
	+E/-W	0.0 usft	Easting:	592,304.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,183.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/12/2018	7.08	59.88	47,697.45725513

Design	Plan #0.1			
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	179.60

Plan Survey Tool Program	Date 10/15/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1 0.0	19,207.3	Plan #0.1 (OH)	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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,077.9	1.56	0.00	3,077.9	1.1	0.0	2.00	2.00	0.00	0.00	
8,519.7	1.56	0.00	8,517.6	148.9	0.0	0.00	0.00	0.00	0.00	
8,597.5	0.00	0.00	8,595.5	150.0	0.0	2.00	-2.00	0.00	180.00	KOP(Torpedo 11 SC #
9,347.5	90.00	179.61	9,073.0	-327.5	3.3	12.00	12.00	23.95	179.61	
19,207.3	90.00	179.61	9,073.0	-10,187.0	71.0	0.00	0.00	0.00	0.00	PBHL(Torpedo 11 SC



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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
3,077.9	1.56	0.00	3,077.9	1.1	0.0	-1.1	2.00	2.00	0.00
3,100.0	1.56	0.00	3,100.0	1.7	0.0	-1.7	0.00	0.00	0.00
3,200.0	1.56	0.00	3,199.9	4.4	0.0	-4.4	0.00	0.00	0.00
3,300.0	1.56	0.00	3,299.9	7.1	0.0	-7.1	0.00	0.00	0.00
3,400.0	1.56	0.00	3,399.9	9.8	0.0	-9.8	0.00	0.00	0.00
3,500.0	1.56	0.00	3,499.8	12.5	0.0	-12.5	0.00	0.00	0.00
3,600.0	1.56	0.00	3,599.8	15.2	0.0	-15.2	0.00	0.00	0.00
3,700.0	1.56	0.00	3,699.8	18.0	0.0	-18.0	0.00	0.00	0.00
3,800.0	1.56	0.00	3,799.7	20.7	0.0	-20.7	0.00	0.00	0.00
3,900.0	1.56	0.00	3,899.7	23.4	0.0	-23.4	0.00	0.00	0.00
4,000.0	1.56	0.00	3,999.6	26.1	0.0	-26.1	0.00	0.00	0.00
4,100.0	1.56	0.00	4,099.6	28.8	0.0	-28.8	0.00	0.00	0.00
4,200.0	1.56	0.00	4,199.6	31.6	0.0	-31.6	0.00	0.00	0.00
4,300.0	1.56	0.00	4,299.5	34.3	0.0	-34.3	0.00	0.00	0.00
4,400.0	1.56	0.00	4,399.5	37.0	0.0	-37.0	0.00	0.00	0.00
4,500.0	1.56	0.00	4,499.5	39.7	0.0	-39.7	0.00	0.00	0.00
4,600.0	1.56	0.00	4,599.4	42.4	0.0	-42.4	0.00	0.00	0.00
4,700.0	1.56	0.00	4,699.4	45.1	0.0	-45.1	0.00	0.00	0.00
4,800.0	1.56	0.00	4,799.4	47.9	0.0	-47.9	0.00	0.00	0.00
4,900.0	1.56	0.00	4,899.3	50.6	0.0	-50.6	0.00	0.00	0.00
5,000.0	1.56	0.00	4,999.3	53.3	0.0	-53.3	0.00	0.00	0.00
5,100.0	1.56	0.00	5,099.2	56.0	0.0	-56.0	0.00	0.00	0.00
5,200.0	1.56	0.00	5,199.2	58.7	0.0	-58.7	0.00	0.00	0.00

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5,300.0	1.56	0.00	5,299.2	61.4	0.0	-61.4	0.00	0.00	0.00
5,400.0	1.56	0.00	5,399.1	64.2	0.0	-64.2	0.00	0.00	0.00
5,500.0	1.56	0.00	5,499.1	66.9	0.0	-66.9	0.00	0.00	0.00
5,600.0	1.56	0.00	5,599.1	69.6	0.0	-69.6	0.00	0.00	0.00
5,700.0	1.56	0.00	5,699.0	72.3	0.0	-72.3	0.00	0.00	0.00
5,800.0	1.56	0.00	5,799.0	75.0	0.0	-75.0	0.00	0.00	0.00
5,900.0	1.56	0.00	5,898.9	77.8	0.0	-77.7	0.00	0.00	0.00
6,000.0	1.56	0.00	5,998.9	80.5	0.0	-80.5	0.00	0.00	0.00
6,100.0	1.56	0.00	6,098.9	83.2	0.0	-83.2	0.00	0.00	0.00
6,200.0	1.56	0.00	6,198.8	85.9	0.0	-85.9	0.00	0.00	0.00
6,300.0	1.56	0.00	6,298.8	88.6	0.0	-88.6	0.00	0.00	0.00
6,400.0	1.56	0.00	6,398.8	91.3	0.0	-91.3	0.00	0.00	0.00
6,500.0	1.56	0.00	6,498.7	94.1	0.0	-94.1	0.00	0.00	0.00
6,600.0	1.56	0.00	6,598.7	96.8	0.0	-96.8	0.00	0.00	0.00
6,700.0	1.56	0.00	6,698.7	99.5	0.0	-99.5	0.00	0.00	0.00
6,800.0	1.56	0.00	6,798.6	102.2	0.0	-102.2	0.00	0.00	0.00
6,900.0	1.56	0.00	6,898.6	104.9	0.0	-104.9	0.00	0.00	0.00
7,000.0	1.56	0.00	6,998.5	107.6	0.0	-107.6	0.00	0.00	0.00
7,100.0	1.56	0.00	7,098.5	110.4	0.0	-110.4	0.00	0.00	0.00
7,200.0	1.56	0.00	7,198.5	113.1	0.0	-113.1	0.00	0.00	0.00
7,300.0	1.56	0.00	7,298.4	115.8	0.0	-115.8	0.00	0.00	0.00
7,400.0	1.56	0.00	7,398.4	118.5	0.0	-118.5	0.00	0.00	0.00
7,500.0	1.56	0.00	7,498.4	121.2	0.0	-121.2	0.00	0.00	0.00
7,600.0	1.56	0.00	7,598.3	123.9	0.0	-123.9	0.00	0.00	0.00
7,700.0	1.56	0.00	7,698.3	126.7	0.0	-126.7	0.00	0.00	0.00
7,800.0	1.56	0.00	7,798.2	129.4	0.0	-129.4	0.00	0.00	0.00
7,900.0	1.56	0.00	7,898.2	132.1	0.0	-132.1	0.00	0.00	0.00
8,000.0	1.56	0.00	7,998.2	134.8	0.0	-134.8	0.00	0.00	0.00
8,100.0	1.56	0.00	8,098.1	137.5	0.0	-137.5	0.00	0.00	0.00
8,200.0	1.56	0.00	8,198.1	140.3	0.0	-140.3	0.00	0.00	0.00
8,300.0	1.56	0.00	8,298.1	143.0	0.0	-143.0	0.00	0.00	0.00
8,400.0	1.56	0.00	8,398.0	145.7	0.0	-145.7	0.00	0.00	0.00
8,500.0	1.56	0.00	8,498.0	148.4	0.0	-148.4	0.00	0.00	0.00
8,519.7	1.56	0.00	8,517.6	148.9	0.0	-148.9	0.00	0.00	0.00
8,597.5	0.00	0.00	8,595.5	150.0	0.0	-150.0	2.00	-2.00	0.00
8,600.0	0.30	179.61	8,598.0	150.0	0.0	-150.0	12.00	12.00	0.00
8,625.0	3.30	179.61	8,623.0	149.2	0.0	-149.2	12.00	12.00	0.00
8,650.0	6.30	179.61	8,647.9	147.1	0.0	-147.1	12.00	12.00	0.00
8,675.0	9.30	179.61	8,672.6	143.7	0.0	-143.7	12.00	12.00	0.00
8,700.0	12.30	179.61	8,697.2	139.0	0.1	-139.0	12.00	12.00	0.00
8,725.0	15.30	179.61	8,721.5	133.1	0.1	-133.1	12.00	12.00	0.00
8,750.0	18.30	179.61	8,745.4	125.9	0.2	-125.9	12.00	12.00	0.00
8,775.0	21.30	179.61	8,768.9	117.4	0.2	-117.4	12.00	12.00	0.00
8,800.0	24.30	179.61	8,792.0	107.7	0.3	-107.7	12.00	12.00	0.00
8,825.0	27.30	179.61	8,814.5	96.8	0.4	-96.8	12.00	12.00	0.00
8,850.0	30.30	179.61	8,836.4	84.8	0.4	-84.8	12.00	12.00	0.00
8,875.0	33.30	179.61	8,857.6	71.6	0.5	-71.6	12.00	12.00	0.00
8,900.0	36.30	179.61	8,878.1	57.4	0.6	-57.4	12.00	12.00	0.00
8,925.0	39.30	179.61	8,897.9	42.0	0.7	-42.0	12.00	12.00	0.00
8,950.0	42.30	179.61	8,916.8	25.7	0.9	-25.7	12.00	12.00	0.00
8,975.0	45.30	179.61	8,934.9	8.4	1.0	-8.4	12.00	12.00	0.00
9,000.0	48.30	179.61	8,952.0	-9.8	1.1	9.8	12.00	12.00	0.00
9,025.0	51.30	179.61	8,968.1	-28.9	1.2	28.9	12.00	12.00	0.00
9,050.0	54.30	179.61	8,983.2	-48.8	1.4	48.8	12.00	12.00	0.00



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9,075.0	57.30	179.61	8,997.3	-69.5	1.5	69.5	12.00	12.00	0.00
9,100.0	60.30	179.61	9,010.2	-90.9	1.7	90.9	12.00	12.00	0.00
9,125.0	63.30	179.61	9,022.0	-112.9	1.8	112.9	12.00	12.00	0.00
9,150.0	66.30	179.61	9,032.7	-135.5	2.0	135.5	12.00	12.00	0.00
9,175.0	69.30	179.61	9,042.1	-158.7	2.1	158.7	12.00	12.00	0.00
9,200.0	72.30	179.61	9,050.4	-182.3	2.3	182.3	12.00	12.00	0.00
9,225.0	75.30	179.61	9,057.3	-206.3	2.4	206.3	12.00	12.00	0.00
9,250.0	78.30	179.61	9,063.0	-230.6	2.6	230.6	12.00	12.00	0.00
9,275.0	81.30	179.61	9,067.5	-255.2	2.8	255.2	12.00	12.00	0.00
9,300.0	84.30	179.61	9,070.6	-280.0	3.0	280.0	12.00	12.00	0.00
9,325.0	87.30	179.61	9,072.4	-304.9	3.1	304.9	12.00	12.00	0.00
9,347.5	90.00	179.61	9,073.0	-327.5	3.3	327.5	12.00	12.00	0.00
9,400.0	90.00	179.61	9,073.0	-379.9	3.6	379.9	0.00	0.00	0.00
9,500.0	90.00	179.61	9,073.0	-479.9	4.3	479.9	0.00	0.00	0.00
9,600.0	90.00	179.61	9,073.0	-579.9	5.0	579.9	0.00	0.00	0.00
9,700.0	90.00	179.61	9,073.0	-679.9	5.7	679.9	0.00	0.00	0.00
9,800.0	90.00	179.61	9,073.0	-779.9	6.4	779.9	0.00	0.00	0.00
9,900.0	90.00	179.61	9,073.0	-879.9	7.1	879.9	0.00	0.00	0.00
10,000.0	90.00	179.61	9,073.0	-979.9	7.8	979.9	0.00	0.00	0.00
10,100.0	90.00	179.61	9,073.0	-1,079.9	8.4	1,079.9	0.00	0.00	0.00
10,200.0	90.00	179.61	9,073.0	-1,179.9	9.1	1,179.9	0.00	0.00	0.00
10,300.0	90.00	179.61	9,073.0	-1,279.9	9.8	1,279.9	0.00	0.00	0.00
10,400.0	90.00	179.61	9,073.0	-1,379.9	10.5	1,379.9	0.00	0.00	0.00
10,500.0	90.00	179.61	9,073.0	-1,479.9	11.2	1,479.9	0.00	0.00	0.00
10,600.0	90.00	179.61	9,073.0	-1,579.9	11.9	1,579.9	0.00	0.00	0.00
10,700.0	90.00	179.61	9,073.0	-1,679.9	12.6	1,679.9	0.00	0.00	0.00
10,800.0	90.00	179.61	9,073.0	-1,779.9	13.3	1,779.9	0.00	0.00	0.00
10,900.0	90.00	179.61	9,073.0	-1,879.9	13.9	1,879.9	0.00	0.00	0.00
11,000.0	90.00	179.61	9,073.0	-1,979.9	14.6	1,979.9	0.00	0.00	0.00
11,100.0	90.00	179.61	9,073.0	-2,079.9	15.3	2,079.9	0.00	0.00	0.00
11,200.0	90.00	179.61	9,073.0	-2,179.9	16.0	2,179.9	0.00	0.00	0.00
11,300.0	90.00	179.61	9,073.0	-2,279.9	16.7	2,279.9	0.00	0.00	0.00
11,400.0	90.00	179.61	9,073.0	-2,379.9	17.4	2,379.9	0.00	0.00	0.00
11,500.0	90.00	179.61	9,073.0	-2,479.9	18.1	2,479.9	0.00	0.00	0.00
11,600.0	90.00	179.61	9,073.0	-2,579.9	18.8	2,579.9	0.00	0.00	0.00
11,700.0	90.00	179.61	9,073.0	-2,679.9	19.4	2,679.9	0.00	0.00	0.00
11,800.0	90.00	179.61	9,073.0	-2,779.9	20.1	2,779.9	0.00	0.00	0.00
11,900.0	90.00	179.61	9,073.0	-2,879.9	20.8	2,879.9	0.00	0.00	0.00
12,000.0	90.00	179.61	9,073.0	-2,979.9	21.5	2,979.9	0.00	0.00	0.00
12,100.0	90.00	179.61	9,073.0	-3,079.9	22.2	3,079.9	0.00	0.00	0.00
12,200.0	90.00	179.61	9,073.0	-3,179.9	22.9	3,179.9	0.00	0.00	0.00
12,300.0	90.00	179.61	9,073.0	-3,279.9	23.6	3,279.9	0.00	0.00	0.00
12,400.0	90.00	179.61	9,073.0	-3,379.9	24.2	3,379.9	0.00	0.00	0.00
12,500.0	90.00	179.61	9,073.0	-3,479.9	24.9	3,479.9	0.00	0.00	0.00
12,600.0	90.00	179.61	9,073.0	-3,579.8	25.6	3,579.9	0.00	0.00	0.00
12,700.0	90.00	179.61	9,073.0	-3,679.8	26.3	3,679.9	0.00	0.00	0.00
12,800.0	90.00	179.61	9,073.0	-3,779.8	27.0	3,779.9	0.00	0.00	0.00
12,900.0	90.00	179.61	9,073.0	-3,879.8	27.7	3,879.9	0.00	0.00	0.00
13,000.0	90.00	179.61	9,073.0	-3,979.8	28.4	3,979.9	0.00	0.00	0.00
13,100.0	90.00	179.61	9,073.0	-4,079.8	29.1	4,079.9	0.00	0.00	0.00
13,200.0	90.00	179.61	9,073.0	-4,179.8	29.7	4,179.9	0.00	0.00	0.00
13,300.0	90.00	179.61	9,073.0	-4,279.8	30.4	4,279.9	0.00	0.00	0.00
13,400.0	90.00	179.61	9,073.0	-4,379.8	31.1	4,379.9	0.00	0.00	0.00
13,500.0	90.00	179.61	9,073.0	-4,479.8	31.8	4,479.9	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Eddy County, NM (NAD 83 NME)
Site: Torpedo 11 State Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3208.0usft
MD Reference: KB = 25 @ 3208.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,600.0	90.00	179.61	9,073.0	-4,579.8	32.5	4,579.9	0.00	0.00	0.00
13,700.0	90.00	179.61	9,073.0	-4,679.8	33.2	4,679.9	0.00	0.00	0.00
13,800.0	90.00	179.61	9,073.0	-4,779.8	33.9	4,779.9	0.00	0.00	0.00
13,900.0	90.00	179.61	9,073.0	-4,879.8	34.5	4,879.9	0.00	0.00	0.00
14,000.0	90.00	179.61	9,073.0	-4,979.8	35.2	4,979.9	0.00	0.00	0.00
14,100.0	90.00	179.61	9,073.0	-5,079.8	35.9	5,079.9	0.00	0.00	0.00
14,200.0	90.00	179.61	9,073.0	-5,179.8	36.6	5,179.9	0.00	0.00	0.00
14,300.0	90.00	179.61	9,073.0	-5,279.8	37.3	5,279.9	0.00	0.00	0.00
14,400.0	90.00	179.61	9,073.0	-5,379.8	38.0	5,379.9	0.00	0.00	0.00
14,500.0	90.00	179.61	9,073.0	-5,479.8	38.7	5,479.9	0.00	0.00	0.00
14,600.0	90.00	179.61	9,073.0	-5,579.8	39.4	5,579.9	0.00	0.00	0.00
14,700.0	90.00	179.61	9,073.0	-5,679.8	40.0	5,679.9	0.00	0.00	0.00
14,800.0	90.00	179.61	9,073.0	-5,779.8	40.7	5,779.9	0.00	0.00	0.00
14,900.0	90.00	179.61	9,073.0	-5,879.8	41.4	5,879.9	0.00	0.00	0.00
15,000.0	90.00	179.61	9,073.0	-5,979.8	42.1	5,979.9	0.00	0.00	0.00
15,100.0	90.00	179.61	9,073.0	-6,079.8	42.8	6,079.9	0.00	0.00	0.00
15,200.0	90.00	179.61	9,073.0	-6,179.8	43.5	6,179.9	0.00	0.00	0.00
15,300.0	90.00	179.61	9,073.0	-6,279.8	44.2	6,279.9	0.00	0.00	0.00
15,400.0	90.00	179.61	9,073.0	-6,379.8	44.9	6,379.9	0.00	0.00	0.00
15,500.0	90.00	179.61	9,073.0	-6,479.8	45.5	6,479.9	0.00	0.00	0.00
15,600.0	90.00	179.61	9,073.0	-6,579.8	46.2	6,579.9	0.00	0.00	0.00
15,700.0	90.00	179.61	9,073.0	-6,679.8	46.9	6,679.9	0.00	0.00	0.00
15,800.0	90.00	179.61	9,073.0	-6,779.8	47.6	6,779.9	0.00	0.00	0.00
15,900.0	90.00	179.61	9,073.0	-6,879.8	48.3	6,879.9	0.00	0.00	0.00
16,000.0	90.00	179.61	9,073.0	-6,979.8	49.0	6,979.9	0.00	0.00	0.00
16,100.0	90.00	179.61	9,073.0	-7,079.8	49.7	7,079.9	0.00	0.00	0.00
16,200.0	90.00	179.61	9,073.0	-7,179.8	50.3	7,179.9	0.00	0.00	0.00
16,300.0	90.00	179.61	9,073.0	-7,279.8	51.0	7,279.9	0.00	0.00	0.00
16,400.0	90.00	179.61	9,073.0	-7,379.8	51.7	7,379.9	0.00	0.00	0.00
16,500.0	90.00	179.61	9,073.0	-7,479.8	52.4	7,479.9	0.00	0.00	0.00
16,600.0	90.00	179.61	9,073.0	-7,579.8	53.1	7,579.9	0.00	0.00	0.00
16,700.0	90.00	179.61	9,073.0	-7,679.8	53.8	7,679.9	0.00	0.00	0.00
16,800.0	90.00	179.61	9,073.0	-7,779.7	54.5	7,779.9	0.00	0.00	0.00
16,900.0	90.00	179.61	9,073.0	-7,879.7	55.2	7,879.9	0.00	0.00	0.00
17,000.0	90.00	179.61	9,073.0	-7,979.7	55.8	7,979.9	0.00	0.00	0.00
17,100.0	90.00	179.61	9,073.0	-8,079.7	56.5	8,079.9	0.00	0.00	0.00
17,200.0	90.00	179.61	9,073.0	-8,179.7	57.2	8,179.9	0.00	0.00	0.00
17,300.0	90.00	179.61	9,073.0	-8,279.7	57.9	8,279.9	0.00	0.00	0.00
17,400.0	90.00	179.61	9,073.0	-8,379.7	58.6	8,379.9	0.00	0.00	0.00
17,500.0	90.00	179.61	9,073.0	-8,479.7	59.3	8,479.9	0.00	0.00	0.00
17,600.0	90.00	179.61	9,073.0	-8,579.7	60.0	8,579.9	0.00	0.00	0.00
17,700.0	90.00	179.61	9,073.0	-8,679.7	60.6	8,679.9	0.00	0.00	0.00
17,800.0	90.00	179.61	9,073.0	-8,779.7	61.3	8,779.9	0.00	0.00	0.00
17,900.0	90.00	179.61	9,073.0	-8,879.7	62.0	8,879.9	0.00	0.00	0.00
18,000.0	90.00	179.61	9,073.0	-8,979.7	62.7	8,979.9	0.00	0.00	0.00
18,100.0	90.00	179.61	9,073.0	-9,079.7	63.4	9,079.9	0.00	0.00	0.00
18,200.0	90.00	179.61	9,073.0	-9,179.7	64.1	9,179.9	0.00	0.00	0.00
18,300.0	90.00	179.61	9,073.0	-9,279.7	64.8	9,279.9	0.00	0.00	0.00
18,400.0	90.00	179.61	9,073.0	-9,379.7	65.5	9,379.9	0.00	0.00	0.00
18,500.0	90.00	179.61	9,073.0	-9,479.7	66.1	9,479.9	0.00	0.00	0.00
18,600.0	90.00	179.61	9,073.0	-9,579.7	66.8	9,579.9	0.00	0.00	0.00
18,700.0	90.00	179.61	9,073.0	-9,679.7	67.5	9,679.9	0.00	0.00	0.00
18,800.0	90.00	179.61	9,073.0	-9,779.7	68.2	9,779.9	0.00	0.00	0.00
18,900.0	90.00	179.61	9,073.0	-9,879.7	68.9	9,879.9	0.00	0.00	0.00

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North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,000.0	90.00	179.61	9,073.0	-9,979.7	69.6	9,979.9	0.00	0.00	0.00
19,100.0	90.00	179.61	9,073.0	-10,079.7	70.3	10,079.9	0.00	0.00	0.00
19,207.3	90.00	179.61	9,073.0	-10,187.0	71.0	10,187.2	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Torpedo 11 SC #7C - plan hits target center - Point	0.00	0.01	8,595.5	150.0	0.0	418,998.00	592,304.00	32° 9' 6.468 N	104° 10' 7.130 W
FTP(Torpedo 11 SC #70 - plan misses target center by 39.3usft at 9160.1usft MD (9036.7 TVD, -144.8 N, 2.0 E) - Point	0.00	0.00	9,073.0	-130.0	0.0	418,718.00	592,304.00	32° 9' 3.698 N	104° 10' 7.135 W
PBHL(Torpedo 11 SC #7 - plan hits target center - Point	0.00	0.00	9,073.0	-10,187.0	71.0	408,661.00	592,375.00	32° 7' 24.171 N	104° 10' 6.488 W

Date: _____
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