

30-025-44466



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Neptune 10 State Com

#709H

OH

Plan: Plan #0.1

Standard Planning Report

25 April, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Neptune 10 State Com
Well: #709H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3633.0usft
MD Reference: KB = 25 @ 3633.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea 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	Neptune 10 State Com		
Site Position:		Northing:	446,557.00 usft
From:	Map	Easting:	778,964.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 31.172 N
		Longitude:	103° 33' 53.609 W
		Grid Convergence:	0.41 °

Well	#709H		
Well Position	+N/-S	175.0 usft	Northing: 446,732.00 usft
	+E/-W	3,102.0 usft	Easting: 782,066.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,608.0 usft
		Latitude:	32° 13' 32.683 N
		Longitude:	103° 33' 17.485 W
		Ground Level:	

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	2/9/2018	(°)
			6.88
			Dip Angle
			(°)
			60.06
			Field Strength
			(nT)
			47,872.79866899

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			356.13

Plan Survey Tool Program	Date	4/25/2018
Depth From	Depth To	Survey (Wellbore)
(usft)	(usft)	
1	0.0	22,385.7 Plan #0.1 (OH)
		Tool Name
		MWD
		OWSG MWD - Standard
		Remarks

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,185.9	3.72	244.60	2,185.7	-2.6	-5.4	2.00	2.00	0.00	244.60	
11,825.7	3.72	244.60	11,805.3	-270.7	-570.0	0.00	0.00	0.00	0.00	
12,588.8	90.00	359.57	12,295.0	206.4	-602.5	12.00	11.31	15.07	114.92	
22,386.7	90.00	359.57	12,295.0	10,004.0	-676.0	0.00	0.00	0.00	0.00	BHL (Neptune 10 St C



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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	2.00	244.60	2,100.0	-0.7	-1.6	-0.6	2.00	2.00	0.00
2,185.9	3.72	244.60	2,185.7	-2.6	-5.4	-2.2	2.00	2.00	0.00
2,200.0	3.72	244.60	2,199.8	-3.0	-6.3	-2.5	0.00	0.00	0.00
2,300.0	3.72	244.60	2,299.6	-5.8	-12.1	-4.9	0.00	0.00	0.00
2,400.0	3.72	244.60	2,399.4	-8.5	-18.0	-7.3	0.00	0.00	0.00
2,500.0	3.72	244.60	2,499.2	-11.3	-23.8	-9.7	0.00	0.00	0.00
2,600.0	3.72	244.60	2,599.0	-14.1	-29.7	-12.1	0.00	0.00	0.00
2,700.0	3.72	244.60	2,698.8	-16.9	-35.6	-14.4	0.00	0.00	0.00
2,800.0	3.72	244.60	2,798.6	-19.7	-41.4	-16.8	0.00	0.00	0.00
2,900.0	3.72	244.60	2,898.4	-22.4	-47.3	-19.2	0.00	0.00	0.00
3,000.0	3.72	244.60	2,998.2	-25.2	-53.1	-21.6	0.00	0.00	0.00
3,100.0	3.72	244.60	3,097.9	-28.0	-59.0	-24.0	0.00	0.00	0.00
3,200.0	3.72	244.60	3,197.7	-30.8	-64.8	-26.3	0.00	0.00	0.00
3,300.0	3.72	244.60	3,297.5	-33.6	-70.7	-28.7	0.00	0.00	0.00
3,400.0	3.72	244.60	3,397.3	-36.4	-76.6	-31.1	0.00	0.00	0.00
3,500.0	3.72	244.60	3,497.1	-39.1	-82.4	-33.5	0.00	0.00	0.00
3,600.0	3.72	244.60	3,596.9	-41.9	-88.3	-35.9	0.00	0.00	0.00
3,700.0	3.72	244.60	3,696.7	-44.7	-94.1	-38.2	0.00	0.00	0.00
3,800.0	3.72	244.60	3,796.5	-47.5	-100.0	-40.6	0.00	0.00	0.00
3,900.0	3.72	244.60	3,896.3	-50.3	-105.8	-43.0	0.00	0.00	0.00
4,000.0	3.72	244.60	3,996.1	-53.0	-111.7	-45.4	0.00	0.00	0.00
4,100.0	3.72	244.60	4,095.8	-55.8	-117.6	-47.8	0.00	0.00	0.00
4,200.0	3.72	244.60	4,195.6	-58.6	-123.4	-50.1	0.00	0.00	0.00
4,300.0	3.72	244.60	4,295.4	-61.4	-129.3	-52.5	0.00	0.00	0.00
4,400.0	3.72	244.60	4,395.2	-64.2	-135.1	-54.9	0.00	0.00	0.00
4,500.0	3.72	244.60	4,495.0	-66.9	-141.0	-57.3	0.00	0.00	0.00
4,600.0	3.72	244.60	4,594.8	-69.7	-146.8	-59.7	0.00	0.00	0.00
4,700.0	3.72	244.60	4,694.6	-72.5	-152.7	-62.0	0.00	0.00	0.00
4,800.0	3.72	244.60	4,794.4	-75.3	-158.6	-64.4	0.00	0.00	0.00
4,900.0	3.72	244.60	4,894.2	-78.1	-164.4	-66.8	0.00	0.00	0.00
5,000.0	3.72	244.60	4,993.9	-80.8	-170.3	-69.2	0.00	0.00	0.00
5,100.0	3.72	244.60	5,093.7	-83.6	-176.1	-71.6	0.00	0.00	0.00
5,200.0	3.72	244.60	5,193.5	-86.4	-182.0	-73.9	0.00	0.00	0.00



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5,300.0	3.72	244.60	5,293.3	-89.2	-187.8	-76.3	0.00	0.00	0.00
5,400.0	3.72	244.60	5,393.1	-92.0	-193.7	-78.7	0.00	0.00	0.00
5,500.0	3.72	244.60	5,492.9	-94.8	-199.6	-81.1	0.00	0.00	0.00
5,600.0	3.72	244.60	5,592.7	-97.5	-205.4	-83.5	0.00	0.00	0.00
5,700.0	3.72	244.60	5,692.5	-100.3	-211.3	-85.8	0.00	0.00	0.00
5,800.0	3.72	244.60	5,792.3	-103.1	-217.1	-88.2	0.00	0.00	0.00
5,900.0	3.72	244.60	5,892.1	-105.9	-223.0	-90.6	0.00	0.00	0.00
6,000.0	3.72	244.60	5,991.8	-108.7	-228.8	-93.0	0.00	0.00	0.00
6,100.0	3.72	244.60	6,091.6	-111.4	-234.7	-95.4	0.00	0.00	0.00
6,200.0	3.72	244.60	6,191.4	-114.2	-240.5	-97.7	0.00	0.00	0.00
6,300.0	3.72	244.60	6,291.2	-117.0	-246.4	-100.1	0.00	0.00	0.00
6,400.0	3.72	244.60	6,391.0	-119.8	-252.3	-102.5	0.00	0.00	0.00
6,500.0	3.72	244.60	6,490.8	-122.6	-258.1	-104.9	0.00	0.00	0.00
6,600.0	3.72	244.60	6,590.6	-125.3	-264.0	-107.3	0.00	0.00	0.00
6,700.0	3.72	244.60	6,690.4	-128.1	-269.8	-109.6	0.00	0.00	0.00
6,800.0	3.72	244.60	6,790.2	-130.9	-275.7	-112.0	0.00	0.00	0.00
6,900.0	3.72	244.60	6,890.0	-133.7	-281.5	-114.4	0.00	0.00	0.00
7,000.0	3.72	244.60	6,989.7	-136.5	-287.4	-116.8	0.00	0.00	0.00
7,100.0	3.72	244.60	7,089.5	-139.3	-293.3	-119.2	0.00	0.00	0.00
7,200.0	3.72	244.60	7,189.3	-142.0	-299.1	-121.5	0.00	0.00	0.00
7,300.0	3.72	244.60	7,289.1	-144.8	-305.0	-123.9	0.00	0.00	0.00
7,400.0	3.72	244.60	7,388.9	-147.6	-310.8	-126.3	0.00	0.00	0.00
7,500.0	3.72	244.60	7,488.7	-150.4	-316.7	-128.7	0.00	0.00	0.00
7,600.0	3.72	244.60	7,588.5	-153.2	-322.5	-131.1	0.00	0.00	0.00
7,700.0	3.72	244.60	7,688.3	-155.9	-328.4	-133.4	0.00	0.00	0.00
7,800.0	3.72	244.60	7,788.1	-158.7	-334.3	-135.8	0.00	0.00	0.00
7,900.0	3.72	244.60	7,887.8	-161.5	-340.1	-138.2	0.00	0.00	0.00
8,000.0	3.72	244.60	7,987.6	-164.3	-346.0	-140.6	0.00	0.00	0.00
8,100.0	3.72	244.60	8,087.4	-167.1	-351.8	-143.0	0.00	0.00	0.00
8,200.0	3.72	244.60	8,187.2	-169.8	-357.7	-145.3	0.00	0.00	0.00
8,300.0	3.72	244.60	8,287.0	-172.6	-363.5	-147.7	0.00	0.00	0.00
8,400.0	3.72	244.60	8,386.8	-175.4	-369.4	-150.1	0.00	0.00	0.00
8,500.0	3.72	244.60	8,486.6	-178.2	-375.3	-152.5	0.00	0.00	0.00
8,600.0	3.72	244.60	8,586.4	-181.0	-381.1	-154.9	0.00	0.00	0.00
8,700.0	3.72	244.60	8,686.2	-183.8	-387.0	-157.2	0.00	0.00	0.00
8,800.0	3.72	244.60	8,786.0	-186.5	-392.8	-159.6	0.00	0.00	0.00
8,900.0	3.72	244.60	8,885.7	-189.3	-398.7	-162.0	0.00	0.00	0.00
9,000.0	3.72	244.60	8,985.5	-192.1	-404.5	-164.4	0.00	0.00	0.00
9,100.0	3.72	244.60	9,085.3	-194.9	-410.4	-166.8	0.00	0.00	0.00
9,200.0	3.72	244.60	9,185.1	-197.7	-416.3	-169.1	0.00	0.00	0.00
9,300.0	3.72	244.60	9,284.9	-200.4	-422.1	-171.5	0.00	0.00	0.00
9,400.0	3.72	244.60	9,384.7	-203.2	-428.0	-173.9	0.00	0.00	0.00
9,500.0	3.72	244.60	9,484.5	-206.0	-433.8	-176.3	0.00	0.00	0.00
9,600.0	3.72	244.60	9,584.3	-208.8	-439.7	-178.7	0.00	0.00	0.00
9,700.0	3.72	244.60	9,684.1	-211.6	-445.5	-181.0	0.00	0.00	0.00
9,800.0	3.72	244.60	9,783.8	-214.3	-451.4	-183.4	0.00	0.00	0.00
9,900.0	3.72	244.60	9,883.6	-217.1	-457.3	-185.8	0.00	0.00	0.00
10,000.0	3.72	244.60	9,983.4	-219.9	-463.1	-188.2	0.00	0.00	0.00
10,100.0	3.72	244.60	10,083.2	-222.7	-469.0	-190.6	0.00	0.00	0.00
10,200.0	3.72	244.60	10,183.0	-225.5	-474.8	-192.9	0.00	0.00	0.00
10,300.0	3.72	244.60	10,282.8	-228.2	-480.7	-195.3	0.00	0.00	0.00
10,400.0	3.72	244.60	10,382.6	-231.0	-486.5	-197.7	0.00	0.00	0.00
10,500.0	3.72	244.60	10,482.4	-233.8	-492.4	-200.1	0.00	0.00	0.00
10,600.0	3.72	244.60	10,582.2	-236.6	-498.3	-202.5	0.00	0.00	0.00



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10,700.0	3.72	244.60	10,682.0	-239.4	-504.1	-204.8	0.00	0.00	0.00
10,800.0	3.72	244.60	10,781.7	-242.2	-510.0	-207.2	0.00	0.00	0.00
10,900.0	3.72	244.60	10,881.5	-244.9	-515.8	-209.6	0.00	0.00	0.00
11,000.0	3.72	244.60	10,981.3	-247.7	-521.7	-212.0	0.00	0.00	0.00
11,100.0	3.72	244.60	11,081.1	-250.5	-527.5	-214.4	0.00	0.00	0.00
11,200.0	3.72	244.60	11,180.9	-253.3	-533.4	-216.7	0.00	0.00	0.00
11,300.0	3.72	244.60	11,280.7	-256.1	-539.3	-219.1	0.00	0.00	0.00
11,400.0	3.72	244.60	11,380.5	-258.8	-545.1	-221.5	0.00	0.00	0.00
11,500.0	3.72	244.60	11,480.3	-261.6	-551.0	-223.9	0.00	0.00	0.00
11,600.0	3.72	244.60	11,580.1	-264.4	-556.8	-226.3	0.00	0.00	0.00
11,700.0	3.72	244.60	11,679.9	-267.2	-562.7	-228.6	0.00	0.00	0.00
11,800.0	3.72	244.60	11,779.6	-270.0	-568.5	-231.0	0.00	0.00	0.00
11,825.7	3.72	244.60	11,805.3	-270.7	-570.0	-231.6	0.00	0.00	0.00
11,850.0	3.63	291.32	11,829.5	-270.7	-571.5	-231.6	12.00	-0.37	192.51
11,875.0	5.50	321.83	11,854.5	-269.5	-572.9	-230.3	12.00	7.47	122.02
11,900.0	8.08	335.05	11,879.3	-267.0	-574.4	-227.6	12.00	10.32	52.87
11,925.0	10.87	341.71	11,903.9	-263.1	-575.9	-223.7	12.00	11.19	26.67
11,950.0	13.76	345.65	11,928.4	-258.0	-577.4	-218.5	12.00	11.53	15.73
11,975.0	16.68	348.23	11,952.5	-251.6	-578.9	-212.0	12.00	11.69	10.34
12,000.0	19.62	350.06	11,976.2	-244.0	-580.3	-204.3	12.00	11.78	7.32
12,025.0	22.58	351.43	11,999.6	-235.1	-581.8	-195.3	12.00	11.84	5.47
12,050.0	25.55	352.49	12,022.4	-225.0	-583.2	-185.2	12.00	11.87	4.26
12,075.0	28.53	353.35	12,044.7	-213.7	-584.6	-173.8	12.00	11.90	3.42
12,100.0	31.51	354.06	12,066.3	-201.3	-585.9	-161.3	12.00	11.92	2.83
12,125.0	34.49	354.65	12,087.3	-187.7	-587.3	-147.7	12.00	11.93	2.38
12,150.0	37.47	355.16	12,107.5	-173.1	-588.6	-133.0	12.00	11.94	2.05
12,175.0	40.46	355.61	12,126.9	-157.4	-589.8	-117.3	12.00	11.95	1.79
12,200.0	43.45	356.01	12,145.5	-140.8	-591.1	-100.6	12.00	11.95	1.58
12,225.0	46.44	356.36	12,163.2	-123.2	-592.2	-83.0	12.00	11.96	1.42
12,250.0	49.43	356.68	12,180.0	-104.6	-593.4	-64.4	12.00	11.96	1.28
12,275.0	52.42	356.97	12,195.7	-85.3	-594.4	-45.0	12.00	11.97	1.17
12,300.0	55.41	357.24	12,210.4	-65.1	-595.4	-24.8	12.00	11.97	1.08
12,325.0	58.41	357.49	12,224.1	-44.2	-596.4	-3.9	12.00	11.97	1.01
12,350.0	61.40	357.73	12,236.6	-22.6	-597.3	17.8	12.00	11.97	0.94
12,375.0	64.39	357.95	12,248.0	-0.3	-598.1	40.0	12.00	11.97	0.89
12,400.0	67.39	358.16	12,258.2	22.5	-598.9	62.8	12.00	11.98	0.85
FTP (Neptune 10 St Com #709H)									
12,425.0	70.38	358.37	12,267.2	45.8	-599.6	86.1	12.00	11.98	0.81
12,450.0	73.37	358.56	12,275.0	69.5	-600.3	109.8	12.00	11.98	0.78
12,475.0	76.37	358.75	12,281.5	93.7	-600.8	134.0	12.00	11.98	0.76
12,500.0	79.36	358.94	12,286.8	118.1	-601.3	158.4	12.00	11.98	0.74
12,525.0	82.36	359.12	12,290.8	142.8	-601.7	183.0	12.00	11.98	0.72
12,550.0	85.35	359.30	12,293.4	167.6	-602.1	207.8	12.00	11.98	0.71
12,575.0	88.35	359.47	12,294.8	192.6	-602.4	232.8	12.00	11.98	0.71
12,588.8	90.00	359.57	12,295.0	206.4	-602.5	246.5	12.00	11.98	0.71
12,600.0	90.00	359.57	12,295.0	217.6	-602.6	257.7	0.00	0.00	0.00
12,700.0	90.00	359.57	12,295.0	317.6	-603.3	357.5	0.00	0.00	0.00
12,800.0	90.00	359.57	12,295.0	417.6	-604.1	457.3	0.00	0.00	0.00
12,900.0	90.00	359.57	12,295.0	517.6	-604.8	557.2	0.00	0.00	0.00
13,000.0	90.00	359.57	12,295.0	617.6	-605.6	657.0	0.00	0.00	0.00
13,100.0	90.00	359.57	12,295.0	717.6	-606.3	756.8	0.00	0.00	0.00
13,200.0	90.00	359.57	12,295.0	817.6	-607.1	856.6	0.00	0.00	0.00
13,300.0	90.00	359.57	12,295.0	917.6	-607.8	956.4	0.00	0.00	0.00



Planning Report

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Company: EOG Resources - Midland
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Site: Neptune 10 State Com
Well: #709H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3633.0usft
MD Reference: KB = 25 @ 3633.0usft
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)
13,400.0	90.00	359.57	12,295.0	1,017.6	-608.6	1,056.3	0.00	0.00	0.00
13,500.0	90.00	359.57	12,295.0	1,117.6	-609.3	1,156.1	0.00	0.00	0.00
13,600.0	90.00	359.57	12,295.0	1,217.5	-610.1	1,255.9	0.00	0.00	0.00
13,700.0	90.00	359.57	12,295.0	1,317.5	-610.8	1,355.7	0.00	0.00	0.00
13,800.0	90.00	359.57	12,295.0	1,417.5	-611.6	1,455.5	0.00	0.00	0.00
13,900.0	90.00	359.57	12,295.0	1,517.5	-612.3	1,555.4	0.00	0.00	0.00
14,000.0	90.00	359.57	12,295.0	1,617.5	-613.1	1,655.2	0.00	0.00	0.00
14,100.0	90.00	359.57	12,295.0	1,717.5	-613.8	1,755.0	0.00	0.00	0.00
14,200.0	90.00	359.57	12,295.0	1,817.5	-614.6	1,854.8	0.00	0.00	0.00
14,300.0	90.00	359.57	12,295.0	1,917.5	-615.3	1,954.6	0.00	0.00	0.00
14,400.0	90.00	359.57	12,295.0	2,017.5	-616.1	2,054.5	0.00	0.00	0.00
14,500.0	90.00	359.57	12,295.0	2,117.5	-616.8	2,154.3	0.00	0.00	0.00
14,600.0	90.00	359.57	12,295.0	2,217.5	-617.6	2,254.1	0.00	0.00	0.00
14,700.0	90.00	359.57	12,295.0	2,317.5	-618.3	2,353.9	0.00	0.00	0.00
14,800.0	90.00	359.57	12,295.0	2,417.5	-619.1	2,453.8	0.00	0.00	0.00
14,900.0	90.00	359.57	12,295.0	2,517.5	-619.8	2,553.6	0.00	0.00	0.00
15,000.0	90.00	359.57	12,295.0	2,617.5	-620.6	2,653.4	0.00	0.00	0.00
15,100.0	90.00	359.57	12,295.0	2,717.5	-621.3	2,753.2	0.00	0.00	0.00
15,200.0	90.00	359.57	12,295.0	2,817.5	-622.1	2,853.0	0.00	0.00	0.00
15,300.0	90.00	359.57	12,295.0	2,917.5	-622.8	2,952.9	0.00	0.00	0.00
15,400.0	90.00	359.57	12,295.0	3,017.5	-623.6	3,052.7	0.00	0.00	0.00
15,500.0	90.00	359.57	12,295.0	3,117.5	-624.3	3,152.5	0.00	0.00	0.00
15,600.0	90.00	359.57	12,295.0	3,217.5	-625.1	3,252.3	0.00	0.00	0.00
15,700.0	90.00	359.57	12,295.0	3,317.5	-625.8	3,352.1	0.00	0.00	0.00
15,800.0	90.00	359.57	12,295.0	3,417.5	-626.6	3,452.0	0.00	0.00	0.00
15,900.0	90.00	359.57	12,295.0	3,517.5	-627.3	3,551.8	0.00	0.00	0.00
16,000.0	90.00	359.57	12,295.0	3,617.5	-628.1	3,651.6	0.00	0.00	0.00
16,100.0	90.00	359.57	12,295.0	3,717.5	-628.8	3,751.4	0.00	0.00	0.00
16,200.0	90.00	359.57	12,295.0	3,817.5	-629.6	3,851.2	0.00	0.00	0.00
16,300.0	90.00	359.57	12,295.0	3,917.5	-630.3	3,951.1	0.00	0.00	0.00
16,400.0	90.00	359.57	12,295.0	4,017.5	-631.1	4,050.9	0.00	0.00	0.00
16,500.0	90.00	359.57	12,295.0	4,117.5	-631.8	4,150.7	0.00	0.00	0.00
16,600.0	90.00	359.57	12,295.0	4,217.5	-632.6	4,250.5	0.00	0.00	0.00
16,700.0	90.00	359.57	12,295.0	4,317.5	-633.3	4,350.3	0.00	0.00	0.00
16,800.0	90.00	359.57	12,295.0	4,417.5	-634.1	4,450.2	0.00	0.00	0.00
16,900.0	90.00	359.57	12,295.0	4,517.5	-634.8	4,550.0	0.00	0.00	0.00
17,000.0	90.00	359.57	12,295.0	4,617.5	-635.6	4,649.8	0.00	0.00	0.00
17,100.0	90.00	359.57	12,295.0	4,717.4	-636.3	4,749.6	0.00	0.00	0.00
17,200.0	90.00	359.57	12,295.0	4,817.4	-637.1	4,849.4	0.00	0.00	0.00
17,300.0	90.00	359.57	12,295.0	4,917.4	-637.8	4,949.3	0.00	0.00	0.00
17,400.0	90.00	359.57	12,295.0	5,017.4	-638.6	5,049.1	0.00	0.00	0.00
17,500.0	90.00	359.57	12,295.0	5,117.4	-639.3	5,148.9	0.00	0.00	0.00
17,600.0	90.00	359.57	12,295.0	5,217.4	-640.1	5,248.7	0.00	0.00	0.00
17,700.0	90.00	359.57	12,295.0	5,317.4	-640.8	5,348.5	0.00	0.00	0.00
17,800.0	90.00	359.57	12,295.0	5,417.4	-641.6	5,448.4	0.00	0.00	0.00
17,900.0	90.00	359.57	12,295.0	5,517.4	-642.3	5,548.2	0.00	0.00	0.00
18,000.0	90.00	359.57	12,295.0	5,617.4	-643.1	5,648.0	0.00	0.00	0.00
18,100.0	90.00	359.57	12,295.0	5,717.4	-643.8	5,747.8	0.00	0.00	0.00
18,200.0	90.00	359.57	12,295.0	5,817.4	-644.6	5,847.6	0.00	0.00	0.00
18,300.0	90.00	359.57	12,295.0	5,917.4	-645.3	5,947.5	0.00	0.00	0.00
18,400.0	90.00	359.57	12,295.0	6,017.4	-646.1	6,047.3	0.00	0.00	0.00
18,500.0	90.00	359.57	12,295.0	6,117.4	-646.8	6,147.1	0.00	0.00	0.00
18,600.0	90.00	359.57	12,295.0	6,217.4	-647.6	6,246.9	0.00	0.00	0.00
18,700.0	90.00	359.57	12,295.0	6,317.4	-648.3	6,346.7	0.00	0.00	0.00



Planning Report

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Wellbore: OH
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Local Co-ordinate Reference: Well #709H
TVD Reference: KB = 25 @ 3633.0usft
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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)
18,800.0	90.00	359.57	12,295.0	6,417.4	-649.1	6,446.6	0.00	0.00	0.00
18,900.0	90.00	359.57	12,295.0	6,517.4	-649.8	6,546.4	0.00	0.00	0.00
19,000.0	90.00	359.57	12,295.0	6,617.4	-650.6	6,646.2	0.00	0.00	0.00
19,100.0	90.00	359.57	12,295.0	6,717.4	-651.3	6,746.0	0.00	0.00	0.00
19,200.0	90.00	359.57	12,295.0	6,817.4	-652.1	6,845.8	0.00	0.00	0.00
19,300.0	90.00	359.57	12,295.0	6,917.4	-652.8	6,945.7	0.00	0.00	0.00
19,400.0	90.00	359.57	12,295.0	7,017.4	-653.6	7,045.5	0.00	0.00	0.00
19,500.0	90.00	359.57	12,295.0	7,117.4	-654.3	7,145.3	0.00	0.00	0.00
19,600.0	90.00	359.57	12,295.0	7,217.4	-655.1	7,245.1	0.00	0.00	0.00
19,700.0	90.00	359.57	12,295.0	7,317.4	-655.8	7,344.9	0.00	0.00	0.00
19,800.0	90.00	359.57	12,295.0	7,417.4	-656.6	7,444.8	0.00	0.00	0.00
19,900.0	90.00	359.57	12,295.0	7,517.4	-657.3	7,544.6	0.00	0.00	0.00
20,000.0	90.00	359.57	12,295.0	7,617.4	-658.1	7,644.4	0.00	0.00	0.00
20,100.0	90.00	359.57	12,295.0	7,717.4	-658.8	7,744.2	0.00	0.00	0.00
20,200.0	90.00	359.57	12,295.0	7,817.4	-659.6	7,844.0	0.00	0.00	0.00
20,300.0	90.00	359.57	12,295.0	7,917.4	-660.3	7,943.9	0.00	0.00	0.00
20,400.0	90.00	359.57	12,295.0	8,017.4	-661.1	8,043.7	0.00	0.00	0.00
20,500.0	90.00	359.57	12,295.0	8,117.4	-661.8	8,143.5	0.00	0.00	0.00
20,600.0	90.00	359.57	12,295.0	8,217.4	-662.6	8,243.3	0.00	0.00	0.00
20,700.0	90.00	359.57	12,295.0	8,317.3	-663.3	8,343.1	0.00	0.00	0.00
20,800.0	90.00	359.57	12,295.0	8,417.3	-664.1	8,443.0	0.00	0.00	0.00
20,900.0	90.00	359.57	12,295.0	8,517.3	-664.8	8,542.8	0.00	0.00	0.00
21,000.0	90.00	359.57	12,295.0	8,617.3	-665.6	8,642.6	0.00	0.00	0.00
21,100.0	90.00	359.57	12,295.0	8,717.3	-666.3	8,742.4	0.00	0.00	0.00
21,200.0	90.00	359.57	12,295.0	8,817.3	-667.1	8,842.2	0.00	0.00	0.00
21,300.0	90.00	359.57	12,295.0	8,917.3	-667.8	8,942.1	0.00	0.00	0.00
21,400.0	90.00	359.57	12,295.0	9,017.3	-668.6	9,041.9	0.00	0.00	0.00
21,500.0	90.00	359.57	12,295.0	9,117.3	-669.3	9,141.7	0.00	0.00	0.00
21,600.0	90.00	359.57	12,295.0	9,217.3	-670.1	9,241.5	0.00	0.00	0.00
21,700.0	90.00	359.57	12,295.0	9,317.3	-670.8	9,341.3	0.00	0.00	0.00
21,800.0	90.00	359.57	12,295.0	9,417.3	-671.6	9,441.2	0.00	0.00	0.00
21,900.0	90.00	359.57	12,295.0	9,517.3	-672.3	9,541.0	0.00	0.00	0.00
22,000.0	90.00	359.57	12,295.0	9,617.3	-673.1	9,640.8	0.00	0.00	0.00
22,100.0	90.00	359.57	12,295.0	9,717.3	-673.8	9,740.6	0.00	0.00	0.00
22,200.0	90.00	359.57	12,295.0	9,817.3	-674.6	9,840.4	0.00	0.00	0.00
22,300.0	90.00	359.57	12,295.0	9,917.3	-675.3	9,940.3	0.00	0.00	0.00
22,386.7	90.00	359.57	12,295.0	10,004.0	-676.0	10,026.8	0.00	0.00	0.00

BHL (Neptune 10 St Cor #709H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
BHL (Neptune 10 St Cor	0.00	0.00	12,295.0	10,004.0	-676.0	456,736.00	781,390.00	32° 15' 11.722 N	103° 33' 24.512 W
- plan hits target center									
- Point									
FTP (Neptune 10 St Cor	0.00	0.00	12,295.0	6.0	-601.0	446,738.00	781,465.00	32° 13' 32.785 N	103° 33' 24.480 W
- plan misses target center by 40.4usft at 12400.0usft MD (12258.2 TVD, 22.5 N, -598.9 E)									
- Point									



Planning Report

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Well: #709H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well #709H
KB = 25 @ 3633.0usft
KB = 25 @ 3633.0usft
Grid
Minimum Curvature



Lea County, NM (NAD 83 NME)
Neptune 10 State Com #709H
Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #709H

KB = 25 @ 3633.0usft
Northing 446732.00 Easting 782066.00 Latitude 32° 13' 32.683 N Longitude 103° 33' 17.486 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2185.9	3.72	244.60	2185.7	-2.6	-5.4	2.00	244.60	-2.2	
4	11825.7	3.72	244.60	11805.3	-270.7	-570.0	0.00	0.00	-231.6	
5	12588.8	90.00	359.57	12295.0	206.4	-602.5	12.00	114.92	246.5	
6	22386.7	90.00	359.57	12295.0	10004.0	-676.0	0.00	0.00	10026.8	BHL (Neptune 10 St Com #709H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
BHL (Neptune 10 St Com #709H)	12295.0	10004.0	-676.0	446738.00	781980.00
FTP (Neptune 10 St Com #709H)		0.0	-601.0	446738.00	781486.00

