



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Dillon 31
 Well: #502H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #502H
 TVD Reference: KB = 25' @ 3461.0usft
 MD Reference: KB = 25' @ 3461.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

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)
5,200.0	1.62	207.93	5,199.7	-46.3	-8.4	-46.0	0.00	0.00	0.00
5,300.0	1.62	207.93	5,299.6	-48.8	-9.7	-48.5	0.00	0.00	0.00
5,400.0	1.62	207.93	5,399.6	-51.3	-11.0	-50.9	0.00	0.00	0.00
5,500.0	1.62	207.93	5,499.5	-53.8	-12.4	-53.4	0.00	0.00	0.00
5,600.0	1.62	207.93	5,599.5	-56.3	-13.7	-55.8	0.00	0.00	0.00
5,700.0	1.62	207.93	5,699.5	-58.8	-15.0	-58.3	0.00	0.00	0.00
5,800.0	1.62	207.93	5,799.4	-61.3	-16.3	-60.7	0.00	0.00	0.00
5,900.0	1.62	207.93	5,899.4	-63.7	-17.7	-63.2	0.00	0.00	0.00
6,000.0	1.62	207.93	5,999.3	-66.2	-19.0	-65.7	0.00	0.00	0.00
6,100.0	1.62	207.93	6,099.3	-68.7	-20.3	-68.1	0.00	0.00	0.00
6,200.0	1.62	207.93	6,199.3	-71.2	-21.6	-70.6	0.00	0.00	0.00
6,300.0	1.62	207.93	6,299.2	-73.7	-23.0	-73.0	0.00	0.00	0.00
6,400.0	1.62	207.93	6,399.2	-76.2	-24.3	-75.5	0.00	0.00	0.00
6,500.0	1.62	207.93	6,499.1	-78.7	-25.6	-77.9	0.00	0.00	0.00
6,600.0	1.62	207.93	6,599.1	-81.2	-26.9	-80.4	0.00	0.00	0.00
6,700.0	1.62	207.93	6,699.1	-83.7	-28.2	-82.8	0.00	0.00	0.00
6,800.0	1.62	207.93	6,799.0	-86.2	-29.6	-85.3	0.00	0.00	0.00
6,900.0	1.62	207.93	6,899.0	-88.7	-30.9	-87.8	0.00	0.00	0.00
7,000.0	1.62	207.93	6,998.9	-91.2	-32.2	-90.2	0.00	0.00	0.00
7,100.0	1.62	207.93	7,098.9	-93.7	-33.5	-92.7	0.00	0.00	0.00
7,200.0	1.62	207.93	7,198.9	-96.2	-34.9	-95.1	0.00	0.00	0.00
7,300.0	1.62	207.93	7,298.8	-98.7	-36.2	-97.6	0.00	0.00	0.00
7,400.0	1.62	207.93	7,398.8	-101.2	-37.5	-100.0	0.00	0.00	0.00
7,500.0	1.62	207.93	7,498.7	-103.7	-38.8	-102.5	0.00	0.00	0.00
7,600.0	1.62	207.93	7,598.7	-106.2	-40.2	-104.9	0.00	0.00	0.00
7,700.0	1.62	207.93	7,698.7	-108.7	-41.5	-107.4	0.00	0.00	0.00
7,800.0	1.62	207.93	7,798.6	-111.2	-42.8	-109.8	0.00	0.00	0.00
7,900.0	1.62	207.93	7,898.6	-113.7	-44.1	-112.3	0.00	0.00	0.00
8,000.0	1.62	207.93	7,998.5	-116.1	-45.4	-114.8	0.00	0.00	0.00
8,100.0	1.62	207.93	8,098.5	-118.6	-46.8	-117.2	0.00	0.00	0.00
8,200.0	1.62	207.93	8,198.5	-121.1	-48.1	-119.7	0.00	0.00	0.00
8,300.0	1.62	207.93	8,298.4	-123.6	-49.4	-122.1	0.00	0.00	0.00
8,400.0	1.62	207.93	8,398.4	-126.1	-50.7	-124.6	0.00	0.00	0.00
8,500.0	1.62	207.93	8,498.3	-128.6	-52.1	-127.0	0.00	0.00	0.00
8,600.0	1.62	207.93	8,598.3	-131.1	-53.4	-129.5	0.00	0.00	0.00
8,700.0	1.62	207.93	8,698.3	-133.6	-54.7	-131.9	0.00	0.00	0.00
8,800.0	1.62	207.93	8,798.2	-136.1	-56.0	-134.4	0.00	0.00	0.00
8,900.0	1.62	207.93	8,898.2	-138.6	-57.3	-136.9	0.00	0.00	0.00
9,000.0	1.62	207.93	8,998.1	-141.1	-58.7	-139.3	0.00	0.00	0.00
9,100.0	1.62	207.93	9,098.1	-143.6	-60.0	-141.8	0.00	0.00	0.00
9,200.0	1.62	207.93	9,198.1	-146.1	-61.3	-144.2	0.00	0.00	0.00
9,300.0	1.62	207.93	9,298.0	-148.6	-62.6	-146.7	0.00	0.00	0.00
9,400.0	1.62	207.93	9,398.0	-151.1	-64.0	-149.1	0.00	0.00	0.00



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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)
9,500.0	1.62	207.93	9,497.9	-153.6	-65.3	-151.6	0.00	0.00	0.00
9,600.0	1.62	207.93	9,597.9	-156.1	-66.6	-154.0	0.00	0.00	0.00
9,700.0	1.62	207.93	9,697.9	-158.6	-67.9	-156.5	0.00	0.00	0.00
9,800.0	1.62	207.93	9,797.8	-161.1	-69.3	-158.9	0.00	0.00	0.00
9,900.0	1.62	207.93	9,897.8	-163.6	-70.6	-161.4	0.00	0.00	0.00
10,000.0	1.62	207.93	9,997.7	-166.0	-71.9	-163.9	0.00	0.00	0.00
10,100.0	1.62	207.93	10,097.7	-168.5	-73.2	-166.3	0.00	0.00	0.00
10,200.0	1.62	207.93	10,197.7	-171.0	-74.5	-168.8	0.00	0.00	0.00
10,300.0	1.62	207.93	10,297.6	-173.5	-75.9	-171.2	0.00	0.00	0.00
10,400.0	1.62	207.93	10,397.6	-176.0	-77.2	-173.7	0.00	0.00	0.00
10,500.0	1.62	207.93	10,497.5	-178.5	-78.5	-176.1	0.00	0.00	0.00
10,600.0	1.62	207.93	10,597.5	-181.0	-79.8	-178.6	0.00	0.00	0.00
10,615.4	1.62	207.93	10,612.9	-181.4	-80.0	-179.0	0.00	0.00	0.00
10,650.0	2.18	338.62	10,647.5	-181.2	-80.5	-178.8	10.00	1.63	377.62
10,700.0	7.08	353.14	10,697.3	-177.3	-81.2	-174.8	10.00	9.80	29.05
10,750.0	12.06	355.76	10,746.8	-169.0	-82.0	-166.5	10.00	9.96	5.24
10,800.0	17.06	356.86	10,795.0	-156.5	-82.8	-153.9	10.00	9.99	2.20
10,850.0	22.05	357.47	10,842.1	-139.7	-83.6	-137.2	10.00	9.99	1.22
10,900.0	27.05	357.86	10,887.5	-119.0	-84.4	-116.5	10.00	9.99	0.79
10,950.0	32.05	358.14	10,931.0	-94.4	-85.3	-91.8	10.00	10.00	0.56
11,000.0	37.05	358.35	10,972.2	-66.0	-86.1	-63.5	10.00	10.00	0.42
11,050.0	42.05	358.52	11,010.7	-34.2	-87.0	-31.6	10.00	10.00	0.33
11,100.0	47.04	358.66	11,046.4	0.8	-87.9	3.4	10.00	10.00	0.28
11,150.0	52.04	358.78	11,078.8	38.9	-88.7	41.5	10.00	10.00	0.23
11,200.0	57.04	358.88	11,107.8	79.6	-89.5	82.2	10.00	10.00	0.20
11,250.0	62.04	358.97	11,133.1	122.6	-90.4	125.3	10.00	10.00	0.18
11,300.0	67.04	359.05	11,154.6	167.8	-91.1	170.4	10.00	10.00	0.17
11,350.0	72.04	359.13	11,172.1	214.6	-91.9	217.2	10.00	10.00	0.15
11,400.0	77.04	359.20	11,185.4	262.8	-92.6	265.4	10.00	10.00	0.15
11,450.0	82.04	359.27	11,194.5	311.9	-93.2	314.5	10.00	10.00	0.14
11,500.0	87.04	359.34	11,199.2	361.7	-93.8	364.3	10.00	10.00	0.14
11,529.6	90.00	359.38	11,200.0	391.3	-94.2	393.9	10.00	10.00	0.14
11,600.0	90.00	359.38	11,200.0	461.6	-94.9	464.2	0.00	0.00	0.00
11,700.0	90.00	359.38	11,200.0	561.6	-96.0	564.2	0.00	0.00	0.00
11,800.0	90.00	359.38	11,200.0	661.6	-97.1	664.2	0.00	0.00	0.00
11,900.0	90.00	359.38	11,200.0	761.6	-98.2	764.2	0.00	0.00	0.00
12,000.0	90.00	359.38	11,200.0	861.6	-99.3	864.2	0.00	0.00	0.00
12,100.0	90.00	359.38	11,200.0	961.6	-100.3	964.2	0.00	0.00	0.00
12,200.0	90.00	359.38	11,200.0	1,061.6	-101.4	1,064.1	0.00	0.00	0.00
12,300.0	90.00	359.38	11,200.0	1,161.6	-102.5	1,164.1	0.00	0.00	0.00
12,400.0	90.00	359.38	11,200.0	1,261.6	-103.6	1,264.1	0.00	0.00	0.00
12,500.0	90.00	359.38	11,200.0	1,361.6	-104.7	1,364.1	0.00	0.00	0.00
12,600.0	90.00	359.38	11,200.0	1,461.6	-105.7	1,464.1	0.00	0.00	0.00



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12,700.0	90.00	359.38	11,200.0	1,561.6	-106.8	1,564.1	0.00	0.00	0.00
12,800.0	90.00	359.38	11,200.0	1,661.6	-107.9	1,664.0	0.00	0.00	0.00
12,900.0	90.00	359.38	11,200.0	1,761.6	-109.0	1,764.0	0.00	0.00	0.00
13,000.0	90.00	359.38	11,200.0	1,861.6	-110.1	1,864.0	0.00	0.00	0.00
13,100.0	90.00	359.38	11,200.0	1,961.6	-111.2	1,964.0	0.00	0.00	0.00
13,200.0	90.00	359.38	11,200.0	2,061.6	-112.2	2,064.0	0.00	0.00	0.00
13,300.0	90.00	359.38	11,200.0	2,161.5	-113.3	2,164.0	0.00	0.00	0.00
13,400.0	90.00	359.38	11,200.0	2,261.5	-114.4	2,263.9	0.00	0.00	0.00
13,500.0	90.00	359.38	11,200.0	2,361.5	-115.5	2,363.9	0.00	0.00	0.00
13,600.0	90.00	359.38	11,200.0	2,461.5	-116.6	2,463.9	0.00	0.00	0.00
13,700.0	90.00	359.38	11,200.0	2,561.5	-117.7	2,563.9	0.00	0.00	0.00
13,800.0	90.00	359.38	11,200.0	2,661.5	-118.7	2,663.9	0.00	0.00	0.00
13,900.0	90.00	359.38	11,200.0	2,761.5	-119.8	2,763.8	0.00	0.00	0.00
14,000.0	90.00	359.38	11,200.0	2,861.5	-120.9	2,863.8	0.00	0.00	0.00
14,100.0	90.00	359.38	11,200.0	2,961.5	-122.0	2,963.8	0.00	0.00	0.00
14,200.0	90.00	359.38	11,200.0	3,061.5	-123.1	3,063.8	0.00	0.00	0.00
14,300.0	90.00	359.38	11,200.0	3,161.5	-124.1	3,163.8	0.00	0.00	0.00
14,400.0	90.00	359.38	11,200.0	3,261.5	-125.2	3,263.8	0.00	0.00	0.00
14,500.0	90.00	359.38	11,200.0	3,361.5	-126.3	3,363.7	0.00	0.00	0.00
14,600.0	90.00	359.38	11,200.0	3,461.5	-127.4	3,463.7	0.00	0.00	0.00
14,700.0	90.00	359.38	11,200.0	3,561.5	-128.5	3,563.7	0.00	0.00	0.00
14,800.0	90.00	359.38	11,200.0	3,661.5	-129.6	3,663.7	0.00	0.00	0.00
14,900.0	90.00	359.38	11,200.0	3,761.5	-130.6	3,763.7	0.00	0.00	0.00
15,000.0	90.00	359.38	11,200.0	3,861.4	-131.7	3,863.7	0.00	0.00	0.00
15,100.0	90.00	359.38	11,200.0	3,961.4	-132.8	3,963.6	0.00	0.00	0.00
15,200.0	90.00	359.38	11,200.0	4,061.4	-133.9	4,063.6	0.00	0.00	0.00
15,300.0	90.00	359.38	11,200.0	4,161.4	-135.0	4,163.6	0.00	0.00	0.00
15,400.0	90.00	359.38	11,200.0	4,261.4	-136.1	4,263.6	0.00	0.00	0.00
15,500.0	90.00	359.38	11,200.0	4,361.4	-137.1	4,363.6	0.00	0.00	0.00
15,600.0	90.00	359.38	11,200.0	4,461.4	-138.2	4,463.5	0.00	0.00	0.00
15,700.0	90.00	359.38	11,200.0	4,561.4	-139.3	4,563.5	0.00	0.00	0.00
15,800.0	90.00	359.38	11,200.0	4,661.4	-140.4	4,663.5	0.00	0.00	0.00
15,900.0	90.00	359.38	11,200.0	4,761.4	-141.5	4,763.5	0.00	0.00	0.00
15,949.6	90.00	359.38	11,200.0	4,811.0	-142.0	4,813.1	0.00	0.00	0.00



EOG Resources, Inc.

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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
FTP (Dillon 31 #502H) - plan misses target center by 70.3usft at 11257.4usft MD (11136.6 TVD, 129.2 N, -90.5 E) - Point	0.00	0.00	11,200.0	99.0	-91.0	425,674.00	756,611.00	32° 10' 3.276 N	103° 30' 14.553 W
PBHL (Dillon 31 #502H) - plan hits target center - Rectangle (sides W50.0 H0.0 D4,712.0)	90.00	359.38	11,200.0	4,811.0	-142.0	430,386.00	756,560.00	32° 10' 49.907 N	103° 30' 14.724 W

Checked By: _____

Approved By: _____

Date: _____