



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Nautilus 16 State Com

#201H

OH

Design: OH

EOG PVA

29 April, 2015

3Q 025-42491

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EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3341.0usft (H&P 415)
Site:	Nautilus 16 State Com	MD Reference:	KB = 25 @ 3341.0usft (H&P 415)
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD 27 NME)		
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	Nautilus 16 State Com		
Site Position:		Northing:	382,984.00 usft
From:	Map	Easting:	768,397.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 2' 59.921 N
		Longitude:	103° 28' 1.438 W
		Grid Convergence:	0.46 °

Well	#201H					
Well Position	+N/-S	0.0 usft	Northing:	382,970.00 usft	Latitude:	32° 2' 59.820 N
	+E/-W	0.0 usft	Easting:	767,927.00 usft	Longitude:	103° 28' 6.899 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,316.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/26/2015	7.13	59.95	48,075

Design	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	173.93

Survey Program	Date 4/29/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
199.0	14,960.0	Driltech MWD #1 (OH)	MWD	MWD - Standard



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Design: OH

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 25 @ 3341.0usft (H&P 415)
MD Reference: KB = 25 @ 3341.0usft (H&P 415)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
199.0	1.60	100.70	199.0	-0.5	2.7	0.80	0.80	0.00	-2.8	0.0	
372.0	1.60	96.30	371.9	-1.2	7.5	0.07	0.00	-2.54	-7.6	-0.4	
526.0	1.90	97.60	525.8	-1.8	12.2	0.20	0.19	0.84	-12.3	-0.2	
619.0	1.60	106.00	618.8	-2.4	14.9	0.42	-0.32	9.03	-15.0	1.8	
714.0	1.20	104.60	713.8	-3.0	17.2	0.42	-0.42	-1.47	-17.4	1.4	
807.0	1.20	116.40	806.7	-3.7	19.0	0.27	0.00	12.69	-18.6	5.2	
972.0	0.70	118.70	971.7	-4.9	21.4	0.30	-0.30	1.39	-21.2	6.0	
1,066.0	1.10	124.30	1,065.7	-5.7	22.7	0.44	0.43	5.96	-21.9	8.1	
1,161.0	1.10	125.20	1,160.7	-6.7	24.2	0.02	0.00	0.95	-23.6	8.4	
1,255.0	0.90	125.70	1,254.7	-7.7	25.5	0.21	-0.21	0.53	-25.2	8.6	
1,350.0	0.70	139.70	1,349.7	-8.6	26.5	0.29	-0.21	14.74	-23.7	14.7	
1,444.0	0.90	136.60	1,443.7	-9.5	27.4	0.22	0.21	-3.30	-25.7	13.3	
1,538.0	0.70	120.80	1,537.6	-10.4	28.4	0.31	-0.21	-16.81	-29.7	5.6	
1,633.0	1.20	111.30	1,632.6	-11.0	29.8	0.55	0.53	-10.00	-31.8	0.6	
1,727.0	1.40	117.80	1,726.6	-11.9	31.7	0.26	0.21	6.91	-33.6	4.3	
1,821.0	1.40	127.10	1,820.6	-13.1	33.7	0.24	0.00	9.89	-34.8	9.8	
1,916.0	1.10	116.00	1,915.6	-14.2	35.4	0.40	-0.32	-11.68	-38.1	2.7	
2,010.0	1.10	121.30	2,009.5	-15.1	37.0	0.11	0.00	5.64	-39.5	6.3	
2,104.0	1.10	112.70	2,103.5	-15.9	38.6	0.18	0.00	-9.15	-41.8	0.2	
2,198.0	1.10	30.40	2,197.5	-15.5	39.9	1.54	0.00	-87.55	-6.8	-42.2	
2,293.0	1.20	45.20	2,292.5	-14.0	41.1	0.33	0.11	15.58	-19.3	-38.9	
2,386.0	1.60	55.90	2,385.5	-12.6	42.8	0.51	0.43	11.51	-28.4	-34.4	
2,481.0	1.90	66.30	2,480.4	-11.2	45.4	0.46	0.32	10.95	-37.0	-28.5	
2,575.0	2.50	69.30	2,574.4	-9.9	48.7	0.65	0.64	3.19	-42.1	-26.5	
2,670.0	2.60	65.70	2,669.3	-8.3	52.6	0.20	0.11	-3.79	-44.5	-29.2	
2,764.0	3.20	66.80	2,763.1	-6.3	57.0	0.64	0.64	1.17	-49.8	-28.3	



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Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,859.0	3.90	67.90	2,858.0	-4.1	62.4	0.74	0.74	1.16	-56.2	-27.3
2,954.0	4.20	63.50	2,952.7	-1.3	68.5	0.45	0.32	-4.63	-60.7	-31.8
3,048.0	4.60	62.10	3,046.4	2.0	74.9	0.44	0.43	-1.49	-67.1	-33.4
3,143.0	3.90	57.10	3,141.2	5.5	81.0	0.83	-0.74	-5.26	-71.0	-39.4
3,237.0	4.90	62.20	3,234.9	9.1	87.2	1.14	1.06	5.43	-81.4	-32.7
3,331.0	6.30	69.40	3,328.5	12.8	95.6	1.66	1.49	7.66	-94.0	-21.8
3,426.0	4.00	73.80	3,423.1	15.6	103.7	2.45	-2.42	4.63	-103.9	-14.0
3,614.0	2.50	65.20	3,610.8	19.1	113.7	0.84	-0.80	-4.57	-111.2	-30.3
3,708.0	2.80	71.70	3,704.7	20.7	117.7	0.45	0.32	6.91	-118.3	-17.3
3,802.0	2.60	59.10	3,798.6	22.5	121.7	0.66	-0.21	-13.40	-116.0	-43.2
3,897.0	2.60	54.30	3,893.5	24.9	125.3	0.23	0.00	-5.05	-116.3	-53.0
3,991.0	2.60	76.50	3,987.4	26.6	129.1	1.06	0.00	23.62	-131.8	-4.3
4,085.0	3.00	83.50	4,081.2	27.4	133.7	0.56	0.43	7.45	-135.9	12.1
4,275.0	3.90	90.50	4,270.9	27.9	145.1	0.52	0.47	3.68	-144.8	29.2
4,463.0	4.90	92.30	4,458.3	27.5	159.5	0.54	0.53	0.96	-158.2	34.0
4,558.0	4.60	92.80	4,553.0	27.2	167.3	0.32	-0.32	0.53	-165.6	35.3
4,652.0	5.10	72.90	4,646.7	28.2	175.1	1.86	0.53	-21.17	-173.8	-25.0
4,747.0	6.30	82.60	4,741.2	30.1	184.3	1.62	1.26	10.21	-181.8	4.0
4,842.0	4.40	82.80	4,835.8	31.3	193.1	2.00	-2.00	0.21	-186.2	2.6
4,936.0	4.00	65.60	4,929.6	33.1	199.6	1.40	-0.43	-18.30	-179.1	-54.3
5,031.0	5.10	85.60	5,024.3	34.8	206.9	2.02	1.16	21.05	-188.2	8.2
5,125.0	4.60	89.80	5,117.9	35.1	214.8	0.65	-0.53	4.47	-189.3	18.9
5,220.0	1.60	88.80	5,212.8	35.1	219.9	3.16	-3.16	-1.05	-188.9	12.2
5,314.0	1.40	27.80	5,306.7	36.2	221.8	1.63	-0.21	-64.89	-98.5	-156.9
5,408.0	1.20	25.30	5,400.7	38.1	222.7	0.22	-0.21	-2.66	-88.1	-157.4
5,502.0	1.20	26.40	5,494.7	39.9	223.6	0.02	0.00	1.17	-87.5	-152.0
5,597.0	1.40	25.30	5,589.7	41.8	224.5	0.21	0.21	-1.16	-81.1	-150.0



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Survey

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5,691.0	1.60	29.20	5,683.6	44.0	225.7	0.24	0.21	4.15	-87.8	-140.7
5,785.0	1.40	21.60	5,777.6	46.2	226.7	0.30	-0.21	-8.09	-65.6	-147.2
5,879.0	1.20	31.30	5,871.6	48.1	227.7	0.32	-0.21	10.32	-85.7	-130.8
5,974.0	1.20	27.90	5,966.6	49.8	228.7	0.07	0.00	-3.58	-74.0	-132.2
6,068.0	1.40	31.60	6,060.5	51.7	229.7	0.23	0.21	3.94	-78.6	-124.0
6,163.0	1.20	27.10	6,155.5	53.6	230.8	0.24	-0.21	-4.74	-65.0	-126.3
6,257.0	1.20	26.00	6,249.5	55.3	231.7	0.02	0.00	-1.17	-59.0	-124.0
6,351.0	1.20	24.30	6,343.5	57.1	232.5	0.04	0.00	-1.81	-51.8	-121.9
6,445.0	1.10	26.40	6,437.5	58.8	233.3	0.12	-0.11	2.23	-52.5	-116.3
6,539.0	1.10	19.90	6,531.4	60.5	234.0	0.13	0.00	-6.91	-35.6	-117.4
6,634.0	1.40	14.60	6,626.4	62.4	234.6	0.34	0.32	-5.58	-21.9	-115.5
6,728.0	1.80	11.30	6,720.4	65.0	235.2	0.44	0.43	-3.51	-13.4	-111.7
6,822.0	2.50	14.90	6,814.3	68.4	236.0	0.76	0.74	3.83	-19.2	-105.9
6,916.0	2.50	17.80	6,908.2	72.4	237.2	0.13	0.00	3.09	-23.6	-100.3
7,011.0	2.50	19.90	7,003.1	76.3	238.5	0.10	0.00	2.21	-26.2	-95.1
7,105.0	2.30	21.60	7,097.1	80.0	239.9	0.23	-0.21	1.81	-27.6	-90.2
7,200.0	2.10	19.90	7,192.0	83.4	241.2	0.22	-0.21	-1.79	-23.4	-86.7
7,294.0	2.10	19.30	7,285.9	86.6	242.3	0.02	0.00	-0.64	-20.8	-82.7
7,388.0	1.90	15.60	7,379.9	89.8	243.3	0.25	-0.21	-3.94	-13.8	-79.4
7,483.0	2.30	13.40	7,474.8	93.1	244.2	0.43	0.42	-2.32	-9.6	-75.2
7,577.0	2.30	20.90	7,568.7	96.7	245.3	0.32	0.00	7.98	-17.8	-68.9
7,672.0	2.80	22.70	7,663.6	100.6	246.9	0.53	0.53	1.89	-18.8	-64.3
7,767.0	2.80	26.20	7,758.5	104.9	248.8	0.18	0.00	3.68	-21.6	-59.2
7,861.0	2.60	25.10	7,852.4	108.9	250.7	0.22	-0.21	-1.17	-19.4	-56.0
7,955.0	2.60	31.80	7,946.3	112.6	252.7	0.32	0.00	7.13	-24.1	-50.0
8,049.0	2.30	31.50	8,040.2	116.0	254.9	0.32	-0.32	-0.32	-21.9	-47.1
8,143.0	1.90	26.50	8,134.2	119.0	256.5	0.47	-0.43	-5.32	-15.6	-45.4



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 Wellbore: OH
 Design: OH

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 MD Reference: KB = 25 @ 3341.0usft (H&P 415)
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8,238.0	2.30	28.50	8,229.1	122.1	258.2	0.43	0.42	2.11	-14.8	-41.4	
8,332.0	1.90	27.90	8,323.0	125.1	259.8	0.43	-0.43	-0.64	-12.1	-38.1	
8,426.0	1.90	33.40	8,417.0	127.8	261.4	0.19	0.00	5.85	-12.8	-33.7	
8,521.0	1.80	38.00	8,511.9	130.3	263.2	0.19	-0.11	4.84	-12.2	-30.1	
8,615.0	2.50	34.30	8,605.9	133.2	265.2	0.76	0.74	-3.94	-7.8	-28.1	
8,710.0	2.50	33.60	8,700.8	136.6	267.5	0.03	0.00	-0.74	-5.5	-25.3	
8,805.0	2.10	36.20	8,795.7	139.7	269.7	0.44	-0.42	2.74	-4.2	-22.3	
8,899.0	1.90	33.80	8,889.6	142.4	271.6	0.23	-0.21	-2.55	-0.5	-19.7	
8,993.0	1.80	32.50	8,983.6	145.0	273.2	0.12	-0.11	-1.38	2.8	-16.8	
9,087.0	1.40	15.60	9,077.6	147.3	274.4	0.65	-0.43	-17.98	9.9	-11.1	
9,181.0	1.20	3.30	9,171.5	149.4	274.7	0.36	-0.21	-13.09	13.6	-3.5	
9,276.0	1.20	3.30	9,266.5	151.4	274.8	0.00	0.00	0.00	15.4	2.1	
9,370.0	0.90	351.90	9,360.5	153.1	274.8	0.39	-0.32	-12.13	15.6	11.0	
9,465.0	1.10	345.80	9,455.5	154.7	274.5	0.24	0.21	-6.42	14.7	19.0	
9,559.0	0.20	209.70	9,549.5	155.5	274.2	1.33	-0.96	-144.79	-29.0	-7.4	
9,653.0	6.30	170.00	9,643.3	150.2	275.0	6.54	6.49	-42.23	-24.9	-30.7	
9,700.0	10.00	160.00	9,689.8	143.9	276.8	8.40	7.87	-21.28	-23.6	-37.9	
9,748.0	13.00	158.60	9,736.8	134.9	280.2	6.28	6.25	-2.92	-25.9	-40.5	
9,798.0	15.70	164.50	9,785.3	123.1	284.1	6.13	5.40	11.80	-31.3	-39.3	
9,842.0	19.50	165.40	9,827.2	110.3	287.5	8.66	8.64	2.05	-31.9	-40.5	
9,889.0	25.20	166.30	9,870.7	93.0	291.9	12.15	12.13	1.91	-32.4	-41.7	
9,937.0	28.90	168.20	9,913.4	71.7	296.7	7.91	7.71	3.96	-33.3	-42.5	
9,984.0	34.10	168.00	9,953.5	47.7	301.7	11.07	11.06	-0.43	-32.4	-44.4	
10,031.0	38.50	166.10	9,991.3	20.6	308.0	9.66	9.36	-4.04	-30.2	-46.2	
10,078.0	43.30	163.80	10,026.8	-9.1	316.0	10.70	10.21	-4.89	-27.7	-46.4	
10,125.0	46.60	162.80	10,080.1	-40.9	325.5	7.18	7.02	-2.13	-25.4	-44.6	
10,172.0	51.20	162.20	10,091.0	-74.7	336.2	9.83	9.79	-1.28	-22.7	-41.6	



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10,201.4	55.85	162.45	10,108.5	-97.2	343.4	15.85	15.83	0.86	-21.7	-39.1
HL Crossing, MD:10201.4', TVD:10108.5', N/S: -97.2', E/W:343.4', INC:55.85										
10,220.0	58.80	162.60	10,118.5	-112.2	348.1	15.85	15.83	0.79	-21.5	-37.5
10,265.0	63.90	164.40	10,140.1	-150.0	359.3	11.86	11.33	4.00	-21.8	-33.8
10,316.0	68.10	165.40	10,160.8	-195.0	371.4	8.43	8.24	1.96	-21.3	-30.5
10,363.0	72.00	165.90	10,176.8	-237.8	382.3	8.36	8.30	1.06	-19.8	-27.8
10,410.0	77.20	167.70	10,189.3	-281.9	392.7	11.66	11.06	3.83	-18.2	-25.6
10,457.0	78.10	170.50	10,199.4	-327.0	401.4	6.13	1.91	5.96	-14.9	-25.0
10,504.0	78.30	172.10	10,209.0	-372.4	408.3	3.36	0.43	3.40	-8.1	-26.1
10,551.0	84.80	172.30	10,215.9	-418.5	414.6	13.84	13.83	0.43	-1.3	-27.4
10,605.0	88.00	173.30	10,219.3	-471.9	421.4	6.21	5.93	1.85	2.0	-28.7
10,699.0	88.70	174.60	10,222.0	-565.4	431.3	1.57	0.74	1.38	4.6	-30.3
10,794.0	87.40	174.20	10,225.2	-659.8	440.5	1.43	-1.37	-0.42	7.8	-29.4
10,888.0	87.60	174.90	10,229.3	-753.3	449.5	0.77	0.21	0.74	11.8	-25.7
10,983.0	89.20	174.60	10,232.0	-847.9	458.1	1.71	1.68	-0.32	14.3	-19.2
11,078.0	89.00	175.60	10,233.5	-942.5	466.3	1.07	-0.21	1.05	15.7	-11.9
11,172.0	89.20	176.30	10,234.9	-1,036.3	472.9	0.77	0.21	0.74	17.0	-6.1
11,267.0	90.80	176.50	10,234.9	-1,131.1	478.9	1.70	1.68	0.21	16.9	-0.9
11,361.0	90.30	178.10	10,234.0	-1,225.0	483.3	1.78	-0.53	1.70	15.9	2.7
11,456.0	88.30	179.10	10,235.2	-1,319.9	485.6	2.35	-2.11	1.05	17.0	4.2
11,550.0	87.10	178.20	10,239.0	-1,413.8	487.8	1.60	-1.28	-0.96	20.6	5.6
11,644.0	87.60	178.60	10,243.3	-1,507.7	490.4	0.68	0.53	0.43	24.9	7.4
11,738.0	89.60	180.20	10,245.6	-1,601.7	491.4	2.72	2.13	1.70	27.0	7.6
11,832.0	89.70	180.20	10,246.2	-1,695.7	491.1	0.11	0.11	0.00	27.5	6.4
11,927.0	90.60	180.70	10,245.9	-1,790.7	490.4	1.08	0.95	0.53	27.1	4.8
12,021.0	85.70	179.60	10,249.0	-1,884.6	490.1	5.34	-5.21	-1.17	30.1	3.8
12,116.0	88.70	178.90	10,253.6	-1,979.4	491.3	3.24	3.16	-0.74	34.6	4.2



EOG Resources, Inc.

EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3341.0usft (H&P 415)
Site:	Nautilus 16 State Com	MD Reference:	KB = 25 @ 3341.0usft (H&P 415)
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,210.0	89.40	177.20	10,255.2	-2,073.4	494.5	1.96	0.74	-1.81	35.9	6.6	
12,304.0	92.90	176.00	10,253.3	-2,167.2	500.1	3.94	3.72	-1.28	33.7	11.3	
12,399.0	93.60	176.50	10,247.9	-2,261.8	506.3	0.91	0.74	0.53	28.1	16.7	
12,493.0	90.30	177.40	10,244.7	-2,355.6	511.3	3.64	-3.51	0.96	24.7	20.9	
12,587.0	90.40	179.50	10,244.1	-2,449.6	513.9	2.24	0.11	2.23	23.8	22.6	
12,682.0	88.50	179.80	10,245.0	-2,544.6	514.4	2.02	-2.00	0.32	24.5	22.4	
12,776.0	87.10	179.50	10,248.7	-2,638.5	515.0	1.52	-1.49	-0.32	27.8	22.1	
12,871.0	89.00	179.60	10,251.9	-2,733.4	515.8	2.00	2.00	0.11	30.8	22.0	
12,965.0	92.70	184.60	10,250.5	-2,827.3	512.3	6.62	3.94	5.32	29.2	17.7	
13,059.0	82.70	183.30	10,254.3	-2,920.9	505.9	10.73	-10.64	-1.38	32.7	10.5	
13,091.0	81.60	182.60	10,258.6	-2,952.5	504.2	4.06	-3.44	-2.19	37.0	8.6	
13,122.0	81.80	181.40	10,263.1	-2,983.2	503.2	3.88	0.65	-3.87	41.4	7.3	
13,154.0	82.90	180.70	10,267.4	-3,014.9	502.6	4.06	3.44	-2.19	45.6	6.4	
13,185.0	83.90	178.80	10,270.9	-3,045.7	502.7	6.89	3.23	-6.13	49.0	6.3	
13,217.0	86.00	178.90	10,273.7	-3,077.6	503.3	6.57	6.56	0.31	51.8	6.6	
13,248.0	88.00	178.90	10,275.4	-3,108.5	503.9	6.45	6.45	0.00	53.3	6.9	
13,280.0	89.60	178.90	10,276.0	-3,140.5	504.6	5.00	5.00	0.00	53.9	7.2	
13,311.0	88.90	178.90	10,276.4	-3,171.5	505.2	2.26	-2.26	0.00	54.2	7.6	
13,343.0	89.00	178.90	10,277.0	-3,203.5	505.8	0.31	0.31	0.00	54.7	7.9	
13,374.0	89.40	178.80	10,277.5	-3,234.5	506.4	1.33	1.29	-0.32	55.1	8.3	
13,406.0	90.10	178.60	10,277.6	-3,266.5	507.1	2.28	2.19	-0.62	55.1	8.7	
13,437.0	90.40	178.40	10,277.5	-3,297.5	507.9	1.16	0.97	-0.65	54.9	9.2	
13,469.0	90.80	178.20	10,277.1	-3,329.4	508.9	1.40	1.25	-0.62	54.5	9.9	
13,532.0	90.80	179.30	10,276.3	-3,392.4	510.2	1.75	0.00	1.75	53.4	10.7	
13,627.0	88.50	178.20	10,276.8	-3,487.4	512.3	2.68	-2.42	-1.16	53.8	12.0	
13,689.0	87.40	177.50	10,279.0	-3,549.3	514.6	2.10	-1.77	-1.13	55.8	13.8	
13,721.0	88.00	178.20	10,280.3	-3,581.3	515.8	2.88	1.87	2.19	57.0	14.7	



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3341.0usft (H&P 415)
Site:	Nautilus 16 State Com	MD Reference:	KB = 25 @ 3341.0usft (H&P 415)
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
13,753.0	87.60	178.40	10,281.6	-3,613.2	516.8	1.40	-1.25	0.62	58.2	15.4
13,784.0	89.60	179.50	10,282.3	-3,644.2	517.4	7.36	6.45	3.55	58.8	15.6
13,815.0	92.70	180.90	10,281.7	-3,675.2	517.3	10.97	10.00	4.52	58.1	15.3
13,847.0	94.00	181.40	10,279.8	-3,707.1	516.6	4.35	4.06	1.56	56.2	14.4
13,878.0	93.60	181.10	10,277.8	-3,738.0	515.9	1.61	-1.29	-0.97	54.0	13.4
13,910.0	94.00	181.20	10,275.7	-3,770.0	515.3	1.29	1.25	0.31	51.8	12.5
13,941.0	94.30	181.20	10,273.4	-3,800.9	514.6	0.97	0.97	0.00	49.5	11.6
13,973.0	94.70	181.20	10,270.9	-3,832.8	514.0	1.25	1.25	0.00	46.9	10.6
14,004.0	95.00	181.40	10,268.3	-3,863.7	513.3	1.16	0.97	0.65	44.2	9.7
14,036.0	94.80	181.20	10,265.5	-3,895.5	512.6	0.88	-0.62	-0.62	41.4	8.7
14,067.0	93.80	180.90	10,263.2	-3,926.4	512.0	3.37	-3.23	-0.97	38.9	7.8
14,098.0	92.90	181.10	10,261.4	-3,957.4	511.5	2.97	-2.90	0.65	37.0	7.0
14,130.0	92.70	181.10	10,259.8	-3,989.3	510.8	0.62	-0.62	0.00	35.4	6.1
14,161.0	93.30	181.10	10,258.2	-4,020.3	510.2	1.94	1.94	0.00	33.7	5.2
14,193.0	93.30	181.20	10,256.4	-4,052.2	509.6	0.31	0.00	0.31	31.7	4.3
14,224.0	93.60	181.40	10,254.5	-4,083.2	508.9	1.16	0.97	0.65	29.8	3.3
14,256.0	92.00	181.10	10,253.0	-4,115.1	508.2	5.09	-5.00	-0.94	28.1	2.3
14,287.0	90.10	180.70	10,252.4	-4,146.1	507.7	6.26	-6.13	-1.29	27.5	1.6
14,318.0	89.60	180.40	10,252.5	-4,177.1	507.4	1.88	-1.61	-0.97	27.5	1.0
14,350.0	89.60	180.50	10,252.7	-4,209.1	507.2	0.31	0.00	0.31	27.6	0.5
14,381.0	89.70	180.70	10,252.9	-4,240.1	506.8	0.72	0.32	0.65	27.7	-0.1
14,413.0	90.40	180.90	10,252.8	-4,272.1	506.4	2.28	2.19	0.62	27.6	-0.8
14,444.0	90.60	181.10	10,252.6	-4,303.1	505.9	0.91	0.65	0.65	27.2	-1.6
14,476.0	90.80	181.10	10,252.2	-4,335.1	505.2	0.62	0.62	0.00	26.7	-2.5
14,507.0	90.40	180.90	10,251.9	-4,366.1	504.7	1.44	-1.29	-0.65	26.3	-3.4
14,570.0	91.70	181.20	10,250.7	-4,429.1	503.5	2.12	2.06	0.48	24.9	-5.1
14,664.0	92.20	181.20	10,247.5	-4,523.0	501.6	0.53	0.53	0.00	21.5	-7.8



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #201H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3341.0usft (H&P 415)
Site:	Nautilus 16 State Com	MD Reference:	KB = 25 @ 3341.0usft (H&P 415)
Well:	#201H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,695.0	91.30	181.10	10,246.6	-4,554.0	501.0	2.92	-2.90	-0.32	20.4	-8.7
14,762.0	90.60	180.40	10,245.5	-4,620.9	500.1	1.48	-1.04	-1.04	19.1	-10.2
Last MWD Survey										
14,858.3	90.60	180.40	10,244.4	-4,717.2	499.4	0.00	0.00	0.00	17.8	-11.7
HL Crossing, MD:14858.3', TVD:10244.4', N/S:-4717.2', E/W:499.4', INC:90.60										
14,960.0	90.60	180.40	10,243.4	-4,818.9	498.7	0.00	0.00	0.00	16.5	-13.3
Projection To Bit										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,201.4	10,108.5	-97.2	343.4	HL Crossing, MD:10201.4', TVD:10108.5', N/S:-97.2', E/W:343.4', INC:55.85
14,762.0	10,245.5	-4,620.9	500.1	Last MWD Survey
14,858.3	10,244.4	-4,717.2	499.4	HL Crossing, MD:14858.3', TVD:10244.4', N/S:-4717.2', E/W:499.4', INC:90.60
14,960.0	10,243.4	-4,818.9	498.7	Projection To Bit

Checked By: _____	Approved By: _____	Date: _____
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