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EOG Resources

Lea County, NM (NAD 27 NME)
Endurance 36 State Com
#704H

OH

Survey: Driltech MWD

Standard Survey Report

15 August, 2016



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	3335' + 25' RKB @ 3360.01ft (H&P 659)
Site:	Endurance 36 State Com	MD Reference:	3335' + 25' RKB @ 3360.01ft (H&P 659)
Well:	#704H	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	Endurance 36 State Com		
Site Position:		Northing:	365,036.00 usft
From:	Map	Easting:	749,506.00 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in
		Latitude:	32° 0' 3.760 N
		Longitude:	103° 31' 42.470 W
		Grid Convergence:	0.43 °

Well	#704H		
Well Position	+N/-S	0.00 ft	Northing: 365,060.00 usft
	+E/-W	0.00 ft	Easting: 748,766.00 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	0.00 ft
		Ground Level:	3,335.01 ft

Wellbore	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/5/2016	7.02	59.88	47,908

Design	OH		
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Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.37

Survey Program	Date 8/15/2016		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
192.00	19,364.00	Driltech MWD (OH)	MWD
			MWD - Standard

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
192.00	1.41	223.69	191.98	-1.71	-1.63	-1.69	0.73	0.73	0.00
192'MD: Begin Driltech MWD									
384.00	1.41	229.31	383.92	-4.96	-5.05	-4.90	0.07	0.00	2.93
571.00	1.23	236.17	570.87	-7.57	-8.47	-7.48	0.13	-0.10	3.67
754.00	1.58	218.59	753.82	-10.64	-11.67	-10.51	0.30	0.19	-9.61
875.00	1.76	226.50	874.77	-13.22	-14.06	-13.07	0.24	0.15	6.54
985.00	2.82	214.20	984.68	-16.62	-16.81	-16.44	1.06	0.96	-11.18
1,151.00	2.46	203.12	1,150.50	-23.28	-20.50	-23.05	0.38	-0.22	-6.67
1,245.00	2.46	209.80	1,244.42	-26.88	-22.30	-26.64	0.30	0.00	7.11
1,338.00	2.64	199.96	1,337.33	-30.63	-24.02	-30.36	0.51	0.19	-10.58



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Site:	Endurance 36 State Corn	MD Reference:	3335' + 25' RKB @ 3360.01ft (H&P 659)
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,431.00	3.34	180.27	1,430.20	-35.35	-24.76	-35.08	1.33	0.75	-21.17
1,524.00	3.52	181.68	1,523.03	-40.91	-24.86	-40.64	0.21	0.19	1.52
1,617.00	3.52	181.68	1,615.86	-46.62	-25.03	-46.34	0.00	0.00	0.00
1,711.00	3.70	176.76	1,709.67	-52.53	-24.94	-52.26	0.38	0.19	-5.23
1,805.00	3.70	174.82	1,803.48	-58.58	-24.49	-58.31	0.13	0.00	-2.06
1,898.00	3.87	175.53	1,896.27	-64.70	-23.98	-64.43	0.19	0.18	0.76
1,992.00	3.87	176.40	1,990.06	-71.03	-23.53	-70.76	0.06	0.00	0.93
2,086.00	4.05	178.51	2,083.83	-77.51	-23.25	-77.25	0.25	0.19	2.24
2,180.00	3.70	180.10	2,177.62	-83.86	-23.17	-83.60	0.39	-0.37	1.69
2,273.00	3.87	175.88	2,270.42	-89.99	-22.95	-89.74	0.35	0.18	-4.54
2,366.00	3.70	176.40	2,363.21	-96.12	-22.53	-95.87	0.19	-0.18	0.56
2,460.00	4.05	176.23	2,457.00	-102.46	-22.12	-102.21	0.37	0.37	-0.18
2,553.00	4.05	171.31	2,549.77	-108.98	-21.41	-108.74	0.37	0.00	-5.29
2,647.00	4.22	168.32	2,643.52	-115.65	-20.21	-115.42	0.29	0.18	-3.18
2,741.00	2.99	174.65	2,737.33	-121.48	-19.28	-121.26	1.37	-1.31	6.73
2,836.00	2.46	177.99	2,832.23	-125.98	-18.98	-125.77	0.58	-0.56	3.52
2,930.00	2.64	174.30	2,926.13	-130.15	-18.69	-129.94	0.26	0.19	-3.93
3,025.00	2.64	169.37	3,021.03	-134.48	-18.07	-134.27	0.24	0.00	-5.19
3,121.00	3.17	161.29	3,116.91	-139.17	-16.81	-138.97	0.70	0.55	-8.42
3,215.00	3.34	153.38	3,210.76	-144.08	-14.75	-143.91	0.51	0.18	-8.41
3,309.00	3.17	155.66	3,304.61	-148.89	-12.45	-148.75	0.23	-0.18	2.43
3,404.00	2.99	161.11	3,399.47	-153.63	-10.57	-153.51	0.36	-0.19	5.74
3,499.00	3.34	161.99	3,494.33	-158.61	-8.91	-158.50	0.37	0.37	0.93
3,594.00	2.99	167.79	3,589.18	-163.66	-7.53	-163.57	0.50	-0.37	6.11
3,688.00	2.64	158.65	3,683.07	-168.07	-6.22	-167.99	0.60	-0.37	-9.72
3,781.00	2.99	142.65	3,775.96	-172.00	-3.97	-171.94	0.92	0.38	-17.20
3,875.00	3.34	125.43	3,869.81	-175.53	-0.25	-175.52	1.07	0.37	-18.32
3,969.00	3.34	116.46	3,963.66	-178.34	4.43	-178.38	0.56	0.00	-9.54
4,062.00	4.22	148.10	4,056.46	-182.45	8.66	-182.54	2.39	0.95	34.02
4,155.00	4.93	153.73	4,149.17	-188.94	12.24	-189.06	0.90	0.76	6.05
4,248.00	4.40	152.67	4,241.86	-195.69	15.65	-195.85	0.58	-0.57	-1.14
4,342.00	3.87	154.08	4,335.61	-201.75	18.69	-201.94	0.57	-0.56	1.50
4,436.00	3.70	157.95	4,429.41	-207.41	21.21	-207.64	0.33	-0.18	4.12
4,530.00	3.87	146.17	4,523.20	-212.86	24.12	-213.11	0.85	0.18	-12.53
4,624.00	4.40	139.84	4,616.96	-218.25	28.21	-218.55	0.74	0.56	-6.73
4,718.00	4.05	142.13	4,710.70	-223.63	32.57	-223.97	0.41	-0.37	2.44
4,811.00	4.22	141.42	4,803.46	-228.90	36.72	-229.29	0.19	0.18	-0.76
4,904.00	4.57	142.83	4,896.19	-234.52	41.10	-234.96	0.39	0.38	1.52
4,999.00	4.75	149.16	4,990.87	-240.92	45.40	-241.40	0.57	0.19	6.66
5,092.00	3.87	173.77	5,083.62	-247.34	47.71	-247.85	2.18	-0.95	26.46
5,186.00	3.87	195.04	5,177.41	-253.56	47.23	-254.06	1.52	0.00	22.63
5,280.00	3.34	193.63	5,271.22	-259.28	45.77	-259.77	0.57	-0.56	-1.50
5,374.00	3.52	189.76	5,365.05	-264.79	44.63	-265.26	0.31	0.19	-4.12



Survey Report

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Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,467.00	3.17	197.32	5,457.90	-270.06	43.38	-270.52	0.60	-0.38	8.13
5,560.00	2.99	201.37	5,550.76	-274.77	41.73	-275.21	0.30	-0.19	4.35
5,654.00	2.99	209.63	5,644.63	-279.19	39.63	-279.60	0.46	0.00	8.79
5,747.00	2.99	210.68	5,737.51	-283.38	37.19	-283.77	0.06	0.00	1.13
5,840.00	2.64	212.97	5,830.40	-287.26	34.79	-287.63	0.40	-0.38	2.46
5,935.00	2.11	209.10	5,925.31	-290.63	32.75	-290.97	0.58	-0.56	-4.07
6,029.00	2.46	210.51	6,019.24	-293.88	30.88	-294.20	0.38	0.37	1.50
6,215.00	1.76	204.18	6,205.11	-299.92	27.68	-300.21	0.40	-0.38	-3.40
6,308.00	1.76	220.17	6,298.07	-302.32	26.18	-302.59	0.53	0.00	17.19
6,401.00	1.41	220.53	6,391.03	-304.28	24.51	-304.53	0.38	-0.38	0.39
6,495.00	1.41	212.09	6,485.00	-306.14	23.15	-306.37	0.22	0.00	-8.98
6,588.00	1.41	215.25	6,577.98	-308.04	21.88	-308.26	0.08	0.00	3.40
6,682.00	1.41	214.55	6,671.95	-309.94	20.56	-310.14	0.02	0.00	-0.74
6,776.00	1.41	227.21	6,765.92	-311.67	19.05	-311.87	0.33	0.00	13.47
6,869.00	1.41	220.88	6,858.89	-313.32	17.46	-313.49	0.17	0.00	-6.81
6,962.00	1.58	224.74	6,951.86	-315.09	15.81	-315.25	0.21	0.18	4.15
7,055.00	1.41	224.22	7,044.83	-316.82	14.11	-316.96	0.18	-0.18	-0.56
7,149.00	1.41	229.14	7,138.80	-318.41	12.43	-318.53	0.13	0.00	5.23
7,243.00	1.58	214.02	7,232.77	-320.24	10.83	-320.34	0.46	0.18	-16.09
7,337.00	1.23	215.25	7,326.74	-322.14	9.52	-322.22	0.37	-0.37	1.31
7,431.00	0.53	317.73	7,420.73	-322.64	8.65	-322.72	1.53	-0.74	109.02
7,524.00	0.70	11.35	7,513.73	-321.76	8.47	-321.84	0.62	0.18	57.66
7,618.00	0.88	9.76	7,607.72	-320.49	8.70	-320.57	0.19	0.19	-1.69
7,712.00	0.35	234.41	7,701.72	-319.95	8.59	-320.02	1.23	-0.56	-143.99
7,806.00	0.88	230.02	7,795.71	-320.58	7.81	-320.64	0.57	0.56	-4.67
7,900.00	1.94	202.60	7,889.68	-322.51	6.64	-322.56	1.31	1.13	-29.17
7,994.00	1.76	220.88	7,983.63	-325.07	5.09	-325.11	0.65	-0.19	19.45
8,078.00	1.76	213.67	8,067.59	-327.12	3.53	-327.14	0.26	0.00	-8.58
8,172.00	1.76	212.97	8,161.55	-329.53	1.94	-329.53	0.02	0.00	-0.74
8,266.00	2.29	262.19	8,255.50	-331.00	-0.71	-330.97	1.87	0.56	52.36
8,360.00	2.29	261.31	8,349.42	-331.54	-4.42	-331.47	0.04	0.00	-0.94
8,454.00	2.46	257.26	8,443.34	-332.27	-8.25	-332.15	0.25	0.18	-4.31
8,548.00	2.99	290.49	8,537.24	-331.85	-12.51	-331.69	1.74	0.56	35.35
8,643.00	2.99	292.60	8,632.11	-330.03	-17.12	-329.82	0.12	0.00	2.22
8,737.00	2.82	286.09	8,725.99	-328.45	-21.60	-328.19	0.39	-0.18	-6.93
8,831.00	2.64	280.12	8,819.88	-327.43	-25.96	-327.12	0.36	-0.19	-6.35
8,925.00	2.64	278.89	8,913.78	-326.71	-30.23	-326.36	0.06	0.00	-1.31
9,018.00	2.46	276.78	9,006.69	-326.15	-34.33	-325.75	0.22	-0.19	-2.27
9,112.00	2.29	275.19	9,100.61	-325.74	-38.20	-325.30	0.19	-0.18	-1.69
9,206.00	1.23	305.96	9,194.57	-324.98	-40.89	-324.51	1.47	-1.13	32.73
9,301.00	1.23	315.98	9,289.54	-323.64	-42.42	-323.16	0.23	0.00	10.55
9,394.00	0.88	306.83	9,382.53	-322.50	-43.68	-322.00	0.42	-0.38	-9.84
9,489.00	0.70	282.75	9,477.52	-321.93	-44.83	-321.42	0.39	-0.19	-25.35



Survey Report

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Site:	Endurance 36 State Com	MD Reference:	3335' + 25' RKB @ 3360.01ft (H&P 659)
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,583.00	0.53	229.84	9,571.52	-322.09	-45.73	-321.56	0.60	-0.18	-56.29
9,676.00	0.70	189.41	9,664.51	-322.92	-46.15	-322.40	0.49	0.18	-43.47
9,769.00	0.88	180.45	9,757.50	-324.20	-46.25	-323.67	0.23	0.19	-9.63
9,863.00	1.23	184.14	9,851.49	-325.93	-46.33	-325.40	0.38	0.37	3.93
9,957.00	1.06	310.17	9,945.48	-326.37	-47.06	-325.84	2.17	-0.18	134.07
10,051.00	1.58	312.81	10,039.45	-324.93	-48.68	-324.38	0.56	0.55	2.81
10,145.00	1.94	305.08	10,133.41	-323.14	-50.93	-322.56	0.46	0.38	-8.22
10,238.00	2.11	298.40	10,226.35	-321.42	-53.73	-320.81	0.31	0.18	-7.18
10,332.00	1.94	291.19	10,320.29	-320.02	-56.73	-319.38	0.33	-0.18	-7.67
10,425.00	2.46	295.58	10,413.22	-318.59	-60.00	-317.91	0.59	0.56	4.72
10,518.00	2.99	294.71	10,506.12	-316.71	-64.00	-315.99	0.57	0.57	-0.94
10,611.00	4.40	289.78	10,598.92	-314.49	-69.56	-313.71	1.55	1.52	-5.30
10,704.00	4.40	284.86	10,691.65	-312.37	-76.37	-311.51	0.41	0.00	-5.29
10,798.00	4.75	285.04	10,785.35	-310.43	-83.61	-309.50	0.37	0.37	0.19
10,891.00	5.10	282.58	10,878.00	-308.53	-91.37	-307.51	0.44	0.38	-2.65
10,984.00	5.98	282.23	10,970.57	-306.61	-100.13	-305.49	0.95	0.95	-0.38
11,077.00	5.98	280.99	11,063.06	-304.66	-109.62	-303.43	0.14	0.00	-1.33
11,139.00	5.81	278.01	11,124.73	-303.61	-115.90	-302.31	0.56	-0.27	-4.81
11,268.00	3.70	295.94	11,253.29	-300.87	-126.11	-299.47	1.98	-1.64	13.90
11,362.00	1.41	357.11	11,347.20	-298.39	-128.90	-296.96	3.47	-2.44	65.07
11,456.00	4.57	61.44	11,441.08	-295.45	-125.67	-294.05	4.42	3.36	68.44
11,549.00	3.52	51.95	11,533.85	-291.91	-120.16	-290.58	1.34	-1.13	-10.20
11,643.00	2.99	71.81	11,627.70	-289.37	-115.56	-288.08	1.32	-0.56	21.13
11,736.00	0.53	33.49	11,720.65	-288.25	-113.02	-286.99	2.79	-2.65	-41.20
11,830.00	2.82	106.97	11,814.61	-288.57	-110.57	-287.33	2.89	2.44	78.17
11,923.00	2.46	107.85	11,907.51	-289.85	-106.48	-288.66	0.39	-0.39	0.95
12,016.00	2.11	104.69	12,000.44	-290.89	-102.92	-289.74	0.40	-0.38	-3.40
12,109.00	2.46	111.89	12,093.36	-292.07	-99.42	-290.96	0.49	0.38	7.74
12,205.00	1.23	28.57	12,189.32	-291.93	-97.01	-290.85	2.73	-1.28	-86.79
12,252.00	8.27	3.44	12,236.14	-288.11	-96.57	-287.03	15.27	14.98	-53.47
12,299.00	15.84	5.37	12,282.07	-278.34	-95.76	-277.27	16.13	16.11	4.11
12,346.00	23.93	10.64	12,326.23	-262.55	-93.40	-261.51	17.61	17.21	11.21
12,392.00	31.67	13.10	12,366.89	-241.59	-88.93	-240.60	17.01	16.83	5.35
12,439.00	37.48	9.76	12,405.58	-215.46	-83.71	-214.52	13.00	12.36	-7.11
12,486.00	40.29	12.40	12,442.16	-186.52	-78.02	-185.65	6.94	5.98	5.62
12,533.00	45.75	9.24	12,476.51	-155.03	-72.05	-154.23	12.49	11.62	-6.72
12,580.00	53.49	6.95	12,506.94	-119.61	-67.05	-118.87	16.88	16.47	-4.87
12,627.00	60.70	6.78	12,532.46	-80.46	-62.34	-79.77	15.34	15.34	-0.36
12,674.00	65.98	5.72	12,553.54	-38.72	-57.78	-38.08	11.41	11.23	-2.26
12,721.00	72.32	3.79	12,570.26	5.03	-54.15	5.62	14.02	13.49	-4.11
12,768.00	80.94	2.03	12,581.12	50.65	-51.85	51.22	18.70	18.34	-3.74
12,796.00	84.46	0.10	12,584.68	78.41	-51.33	78.97	14.31	12.57	-6.89
12,827.00	87.27	0.10	12,586.91	109.33	-51.28	109.89	9.06	9.06	0.00
12,889.00	88.33	359.74	12,589.29	171.28	-51.37	171.84	1.81	1.71	-0.58



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	3335' + 25' RKB @ 3360.01ft (H&P 659)
Site:	Endurance 36 State Com	MD Reference:	3335' + 25' RKB @ 3360.01ft (H&P 659)
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
12,984.00	89.56	359.04	12,591.04	266.26	-52.38	266.82	1.49	1.29	-0.74
13,078.00	90.26	357.46	12,591.19	360.21	-55.25	360.80	1.84	0.74	-1.68
13,173.00	91.67	358.69	12,589.59	455.14	-58.44	455.75	1.97	1.48	1.29
13,267.00	92.02	1.15	12,586.56	549.08	-58.57	549.69	2.64	0.37	2.62
13,362.00	90.79	1.15	12,584.23	644.03	-56.66	644.62	1.29	-1.29	0.00
13,456.00	89.03	1.68	12,584.38	738.00	-54.34	738.55	1.96	-1.87	0.56
13,550.00	89.56	1.85	12,585.54	831.95	-51.45	832.46	0.59	0.56	0.18
13,644.00	90.26	1.85	12,585.69	925.90	-48.41	926.38	0.74	0.74	0.00
13,738.00	89.03	2.21	12,586.27	1,019.84	-45.08	1,020.27	1.36	-1.31	0.38
13,832.00	90.26	2.56	12,586.85	1,113.75	-41.17	1,114.14	1.36	1.31	0.37
13,927.00	89.03	359.57	12,587.44	1,208.72	-39.41	1,209.08	3.40	-1.29	-3.15
14,021.00	90.79	0.98	12,587.59	1,302.71	-38.95	1,303.06	2.40	1.87	1.50
14,115.00	88.33	0.10	12,588.31	1,396.70	-38.07	1,397.03	2.78	-2.62	-0.94
14,209.00	88.86	0.62	12,590.61	1,490.67	-37.48	1,490.99	0.79	0.56	0.55
14,303.00	90.09	0.62	12,591.48	1,584.66	-36.46	1,584.96	1.31	1.31	0.00
14,398.00	89.91	359.92	12,591.48	1,679.65	-36.01	1,679.95	0.76	-0.19	-0.74
14,492.00	89.91	359.22	12,591.62	1,773.65	-36.72	1,773.95	0.74	0.00	-0.74
14,586.00	91.50	358.87	12,590.47	1,867.63	-38.29	1,867.94	1.73	1.69	-0.37
14,680.00	90.26	359.22	12,589.02	1,961.60	-39.85	1,961.92	1.37	-1.32	0.37
14,774.00	90.44	359.04	12,588.45	2,055.59	-41.28	2,055.92	0.27	0.19	-0.19
14,869.00	90.97	358.34	12,587.28	2,150.56	-43.45	2,150.90	0.92	0.56	-0.74
14,963.00	90.97	358.87	12,585.69	2,244.51	-45.74	2,244.88	0.56	0.00	0.56
15,057.00	91.85	359.39	12,583.38	2,338.47	-47.17	2,338.85	1.09	0.94	0.55
15,151.00	90.62	359.39	12,581.35	2,432.44	-48.17	2,432.83	1.31	-1.31	0.00
15,244.00	90.09	359.39	12,580.77	2,525.44	-49.16	2,525.82	0.57	-0.57	0.00
15,339.00	89.03	358.87	12,581.50	2,620.42	-50.60	2,620.82	1.24	-1.12	-0.55
15,432.00	90.62	359.22	12,581.79	2,713.41	-52.15	2,713.81	1.75	1.71	0.38
15,526.00	90.44	359.04	12,580.92	2,807.39	-53.58	2,807.81	0.27	-0.19	-0.19
15,619.00	92.55	359.57	12,578.49	2,900.35	-54.70	2,900.77	2.34	2.27	0.57
15,713.00	87.62	359.74	12,578.35	2,994.32	-55.27	2,994.74	5.25	-5.24	0.18
15,806.00	88.86	359.39	12,581.21	3,087.27	-55.98	3,087.70	1.39	1.33	-0.38
15,899.00	90.62	358.34	12,581.63	3,180.24	-57.82	3,180.69	2.20	1.89	-1.13
15,993.00	89.21	357.28	12,581.77	3,274.17	-61.41	3,274.65	1.88	-1.50	-1.13
16,086.00	91.32	356.93	12,581.34	3,367.05	-66.11	3,367.57	2.30	2.27	-0.38
16,180.00	90.09	357.28	12,580.18	3,460.92	-70.85	3,461.49	1.36	-1.31	0.37
16,274.00	89.21	0.45	12,580.76	3,554.88	-72.71	3,555.47	3.50	-0.94	3.37
16,367.00	88.86	1.68	12,582.32	3,647.85	-70.99	3,648.41	1.37	-0.38	1.32
16,460.00	91.50	1.33	12,582.03	3,740.81	-68.54	3,741.34	2.86	2.84	-0.38
16,554.00	88.33	2.38	12,582.17	3,834.75	-65.50	3,835.24	3.55	-3.37	1.12
16,648.00	91.67	2.21	12,582.17	3,928.66	-61.74	3,929.10	3.56	3.55	-0.18
16,742.00	88.50	4.14	12,582.03	4,022.50	-56.53	4,022.88	3.95	-3.37	2.05
16,836.00	86.39	2.73	12,586.22	4,116.23	-50.91	4,116.54	2.70	-2.24	-1.50
16,929.00	87.98	0.62	12,590.79	4,209.07	-48.19	4,209.34	2.84	1.71	-2.27



Survey Report

Company:	EOG Resources	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	3335' + 25' RKB @ 3360.01ft (H&P 659)
Site:	Endurance 36 State Com	MD Reference:	3335' + 25' RKB @ 3360.01ft (H&P 659)
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
17,023.00	87.10	358.69	12,594.82	4,302.97	-48.76	4,303.25	2.25	-0.94	-2.05
17,116.00	88.15	359.57	12,598.68	4,395.88	-50.17	4,396.17	1.47	1.13	0.95
17,210.00	86.74	358.51	12,602.87	4,489.77	-51.74	4,490.07	1.88	-1.50	-1.13
17,305.00	91.85	358.16	12,604.04	4,584.69	-54.50	4,585.01	5.39	5.38	-0.37
17,399.00	92.02	359.39	12,600.86	4,678.62	-56.51	4,678.95	1.32	0.18	1.31
17,492.00	92.02	0.62	12,597.58	4,771.56	-56.50	4,771.89	1.32	0.00	1.32
17,586.00	90.97	358.69	12,595.13	4,865.52	-57.07	4,865.85	2.34	-1.12	-2.05
17,680.00	92.38	359.92	12,592.38	4,959.47	-58.21	4,959.81	1.99	1.50	1.31
17,774.00	90.09	356.40	12,590.36	5,053.37	-61.22	5,053.74	4.47	-2.44	-3.74
17,867.00	95.37	359.74	12,585.93	5,146.17	-64.36	5,146.57	6.72	5.68	3.59
17,961.00	92.90	1.33	12,579.15	5,239.91	-63.48	5,240.29	3.12	-2.63	1.69
18,055.00	90.97	1.15	12,575.98	5,333.83	-61.45	5,334.18	2.06	-2.05	-0.19
18,149.00	89.74	358.87	12,575.39	5,427.82	-61.43	5,428.17	2.76	-1.31	-2.43
18,243.00	90.09	358.16	12,575.53	5,521.79	-63.87	5,522.16	0.84	0.37	-0.76
18,336.00	87.10	357.99	12,577.81	5,614.70	-66.99	5,615.09	3.22	-3.22	-0.18
18,429.00	90.44	359.39	12,579.81	5,707.64	-69.11	5,708.05	3.89	3.59	1.51
18,523.00	87.62	358.34	12,581.40	5,801.59	-70.98	5,802.02	3.20	-3.00	-1.12
18,616.00	89.56	358.34	12,583.69	5,894.52	-73.67	5,894.98	2.09	2.09	0.00
18,710.00	89.74	359.74	12,584.26	5,988.50	-75.24	5,988.97	1.50	0.19	1.49
18,804.00	86.57	359.39	12,587.29	6,082.44	-75.96	6,082.91	3.39	-3.37	-0.37
18,896.00	90.79	358.16	12,589.41	6,174.37	-77.92	6,174.86	4.78	4.59	-1.34
18,989.00	85.87	357.64	12,592.12	6,267.24	-81.33	6,267.76	5.32	-5.29	-0.56
19,083.00	86.39	0.10	12,598.46	6,361.00	-83.18	6,361.53	2.67	0.55	2.62
19,176.00	87.45	358.87	12,603.46	6,453.86	-84.01	6,454.39	1.74	1.14	-1.32
19,270.00	94.31	358.69	12,602.02	6,547.77	-86.01	6,548.32	7.30	7.30	-0.19
19,364.00	93.26	359.57	12,595.81	6,641.55	-87.43	6,642.11	1.46	-1.12	0.94
19,458.00	90.62	0.80	12,592.63	6,735.49	-87.13	6,736.04	3.10	-2.81	1.31
19,551.00	91.32	0.80	12,591.06	6,828.47	-85.83	6,829.00	0.75	0.75	0.00
19551'MD: Final MWD Survey									
19,652.00	91.32	0.80	12,588.73	6,929.43	-84.42	6,929.94	0.00	0.00	0.00
19652'MD: Projected to Total Depth									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
192.00	191.98	-1.71	-1.63	192'MD: Begin Driltech MWD
19,551.00	12,591.06	6,828.47	-85.83	19551'MD: Final MWD Survey
19,652.00	12,588.73	6,929.43	-84.42	19652'MD: Projected to Total Depth

Checked By: _____ Approved By: _____ Date: _____