eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Green Drake 16 Fed Com
#705H
OH

Design: OH

Midland PVA

22 February, 2019

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #705H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3434.0usft
Site:	Green Drake 16 Fed Com	**MD Reference:**	KB = 25 @ 3434.0usft
Well:	#705H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

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 Green Drake 16 Fed Com

Site Position:		**Northing:**	411,802.00 usft	**Latitude:**	32° 7' 47.652 N
From:	Map	**Easting:**	773,380.00 usft	**Longitude:**	103° 35' 1.431 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.40 °

Well #705H

Well Position	**+N/-S**	0.0 usft	**Northing:**	411,468.00 usft	**Latitude:**	32° 7' 44.281 N
	+E/-W	0.0 usft	**Easting:**	774,338.00 usft	**Longitude:**	103° 34' 50.318 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,409.0 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	7/3/2018	6.84	59.96	47,773.57454081

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	174.92

Survey Program **Date** 2/22/2019

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
144.0	20,056.0	Learn MWD (OH)	MWD	OWSG MWD - Standard

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #705H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3434.0usft
Site:	Green Drake 16 Fed Com	**MD Reference:**	KB = 25 @ 3434.0usft
Well:	#705H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	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
144.0	1.30	164.50	144.0	-1.6	0.4	0.90	0.90	0.00	-1.6	0.0
321.0	1.20	183.60	320.9	-5.4	0.9	0.24	-0.06	10.79	-5.3	1.2
493.0	1.10	180.50	492.9	-8.8	0.7	0.07	-0.06	-1.80	-8.8	0.8
678.0	1.00	209.10	677.9	-12.0	-0.1	0.29	-0.05	15.46	-10.5	5.8
860.0	0.80	238.80	859.9	-14.0	-1.9	0.27	-0.11	16.32	-8.9	11.0
1,045.0	0.60	224.40	1,044.8	-15.4	-3.7	0.14	-0.11	-7.78	-13.6	8.1
1,125.0	0.70	222.70	1,124.8	-16.1	-4.3	0.13	0.12	-2.12	-14.7	7.7
1,311.0	4.70	34.70	1,310.7	-10.6	-0.8	2.90	2.15	92.47	11.2	-4.9
1,404.0	5.90	56.40	1,403.3	-4.8	5.4	2.49	1.29	23.33	5.3	-8.1
1,497.0	7.50	67.80	1,495.6	0.1	15.0	2.23	1.72	12.26	0.5	-10.6
1,591.0	9.20	59.50	1,588.6	6.2	27.1	2.21	1.81	-8.83	-0.6	-13.8
1,685.0	9.30	57.20	1,681.4	14.2	40.0	0.41	0.11	-2.45	-2.9	-16.1
1,778.0	9.30	44.60	1,773.2	23.6	51.6	2.19	0.00	-13.55	-1.9	-17.3
1,872.0	9.40	44.20	1,866.0	34.5	62.3	0.13	0.11	-0.43	-4.6	-16.6
1,966.0	9.50	41.90	1,958.7	45.8	72.8	0.42	0.11	-2.45	-7.0	-15.8
2,060.0	9.50	41.40	2,051.4	57.4	83.1	0.09	0.00	-0.53	-10.0	-14.5
2,155.0	9.80	40.20	2,145.0	69.4	93.5	0.38	0.32	-1.26	-13.1	-13.2
2,248.0	9.80	38.10	2,236.7	81.7	103.5	0.38	0.00	-2.26	-16.3	-11.9
2,341.0	9.80	37.40	2,328.3	94.2	113.2	0.13	0.00	-0.75	-19.9	-10.0
2,435.0	10.00	36.30	2,420.9	107.1	122.9	0.29	0.21	-1.17	-23.7	-8.0
2,529.0	10.60	33.70	2,513.4	120.9	132.5	0.81	0.64	-2.77	-28.0	-6.4
2,623.0	10.70	33.00	2,605.8	135.4	142.1	0.17	0.11	-0.74	-33.3	-3.6
2,716.0	10.60	43.00	2,697.2	148.9	152.6	1.99	-0.11	10.75	-38.2	4.7
2,809.0	10.60	47.60	2,788.6	160.9	164.8	0.91	0.00	4.95	-42.5	8.5
2,902.0	10.60	46.00	2,880.0	172.6	177.2	0.32	0.00	-1.72	-47.6	7.4
2,995.0	10.10	44.80	2,971.5	184.4	189.1	0.59	-0.54	-1.29	-52.1	6.9

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #705H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3434.0usft
Site:	Green Drake 16 Fed Com	**MD Reference:**	KB = 25 @ 3434.0usft
Well:	#705H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
3,089.0	10.20	43.20	3,064.0	196.3	200.6	0.32	0.11	-1.70	-56.5	6.2
3,183.0	10.30	42.30	3,156.5	208.6	212.0	0.20	0.11	-0.96	-60.9	6.4
3,277.0	9.80	57.60	3,249.1	219.1	224.4	2.88	-0.53	16.28	-61.0	22.2
3,371.0	10.00	57.60	3,341.7	227.7	238.1	0.21	0.21	0.00	-64.9	20.1
3,465.0	10.00	56.90	3,434.3	236.6	251.8	0.13	0.00	-0.74	-69.1	17.2
3,558.0	8.40	57.60	3,526.1	244.6	264.3	1.72	-1.72	0.75	-71.7	16.1
3,652.0	7.80	57.60	3,619.2	251.7	275.5	0.64	-0.64	0.00	-72.6	14.0
3,746.0	6.60	56.70	3,712.4	258.1	285.4	1.28	-1.28	-0.96	-72.3	10.8
3,839.0	6.20	53.90	3,804.8	264.0	293.9	0.55	-0.43	-3.01	-70.8	5.7
3,932.0	6.70	56.40	3,897.2	270.0	302.5	0.62	0.54	2.69	-68.7	7.1
4,026.0	6.00	53.40	3,990.7	275.9	311.0	0.82	-0.74	-3.19	-66.9	2.1
4,120.0	5.20	50.90	4,084.2	281.5	318.2	0.89	-0.85	-2.66	-63.6	-1.7
4,213.0	6.20	46.00	4,176.8	287.7	325.1	1.19	1.08	-5.27	-60.1	-7.1
4,307.0	6.40	42.70	4,270.2	295.1	332.3	0.44	0.21	-3.51	-57.4	-9.7
4,400.0	6.30	55.70	4,362.6	301.7	340.0	1.55	-0.11	13.98	-56.0	2.9
4,494.0	6.00	61.10	4,456.1	307.0	348.6	0.69	-0.32	5.74	-53.4	5.7
4,681.0	6.40	80.10	4,642.0	313.5	367.4	1.11	0.21	10.16	-47.3	12.6
4,775.0	6.20	84.50	4,735.4	314.9	377.6	0.56	-0.21	4.68	-46.5	9.1
4,869.0	5.70	55.10	4,829.0	318.1	386.5	3.25	-0.53	-31.28	-41.7	-18.8
4,963.0	6.80	36.90	4,922.4	325.2	393.7	2.40	1.17	-19.36	-31.5	-29.9
5,057.0	6.20	36.70	5,015.8	333.7	400.1	0.64	-0.64	-0.21	-29.8	-27.6
5,151.0	6.10	35.80	5,109.3	341.8	406.0	0.15	-0.11	-0.96	-27.2	-25.6
5,245.0	5.90	46.30	5,202.7	349.2	412.4	1.19	-0.21	11.17	-28.6	-19.0
5,338.0	5.80	47.20	5,295.3	355.7	419.3	0.15	-0.11	0.97	-26.0	-18.3
5,432.0	5.70	46.30	5,388.8	362.2	426.2	0.14	-0.11	-0.96	-22.6	-18.5
5,526.0	5.60	33.00	5,482.3	369.3	432.1	1.39	-0.11	-14.15	-14.9	-21.0
5,714.0	7.00	29.10	5,669.2	387.0	442.6	0.78	0.74	-2.07	-10.3	-14.6

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #705H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3434.0usft
Site:	Green Drake 16 Fed Com	**MD Reference:**	KB = 25 @ 3434.0usft
Well:	#705H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,807.0	7.90	33.90	5,761.4	397.2	448.0	1.18	0.97	5.16	-11.6	-10.2
5,902.0	8.00	34.40	5,855.5	408.1	456.3	0.13	0.11	0.53	-12.5	-7.2
5,996.0	7.70	32.30	5,948.6	418.8	463.4	0.44	-0.32	-2.23	-13.0	-4.5
6,090.0	6.90	28.80	6,041.9	429.1	469.5	0.97	-0.85	-3.72	-12.9	-1.6
6,184.0	6.40	29.80	6,135.2	438.6	474.6	0.55	-0.53	1.06	-11.9	2.6
6,278.0	6.90	39.00	6,228.6	447.5	481.0	1.25	0.53	9.79	-9.8	7.2
6,372.0	7.70	49.70	6,321.8	456.0	489.3	1.67	0.85	11.38	-7.7	9.5
6,466.0	7.60	48.60	6,415.0	464.2	498.8	0.19	-0.11	-1.17	-7.9	9.1
6,560.0	7.20	47.40	6,508.2	472.3	507.8	0.46	-0.43	-1.28	-7.7	8.8
6,654.0	7.40	45.10	6,601.5	480.5	516.4	0.38	0.21	-2.45	-7.5	8.9
6,842.0	7.20	41.60	6,787.9	497.9	532.8	0.26	-0.11	-1.86	-7.0	10.4
6,936.0	6.70	38.60	6,881.2	506.6	540.1	0.66	-0.53	-3.19	-6.6	11.7
7,029.0	6.20	38.10	6,973.7	514.8	546.6	0.54	-0.54	-0.54	-5.0	13.7
7,123.0	5.70	38.30	7,067.1	522.5	552.5	0.57	-0.53	-1.91	-2.9	15.8
7,311.0	5.00	37.20	7,254.3	536.6	563.0	0.37	-0.37	0.48	4.3	20.6
7,405.0	4.70	44.10	7,348.0	542.6	568.2	0.70	-0.32	7.34	6.8	21.1
7,498.0	5.20	45.80	7,440.6	548.3	573.8	0.56	0.54	1.83	8.2	21.2
7,592.0	5.50	61.30	7,534.2	553.4	580.8	1.57	0.32	16.49	8.7	18.5
7,686.0	3.70	77.10	7,627.9	556.2	587.7	2.32	-1.91	16.81	6.8	16.2
7,780.0	2.30	105.90	7,721.8	556.4	592.5	2.14	-1.49	30.64	9.2	12.3
7,875.0	1.90	103.60	7,816.7	555.5	595.9	0.43	-0.42	-2.42	5.2	12.6
7,968.0	1.80	107.70	7,909.7	554.7	598.8	0.18	-0.11	4.41	3.1	12.3
8,062.0	1.50	114.20	8,003.7	553.7	601.3	0.38	-0.32	6.91	1.8	12.1
8,156.0	1.50	126.90	8,097.6	552.5	603.4	0.35	0.00	13.51	2.0	11.6
8,249.0	1.60	128.80	8,190.6	551.0	605.4	0.12	0.11	2.04	-0.2	11.6
8,437.0	1.40	129.00	8,378.5	547.9	609.2	0.11	-0.11	0.11	-5.0	11.6
8,530.0	1.40	137.60	8,471.5	546.3	610.9	0.23	0.00	9.25	-5.5	12.4

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #705H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3434.0usft
Site:	Green Drake 16 Fed Com	**MD Reference:**	KB = 25 @ 3434.0usft
Well:	#705H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
8,625.0	1.30	145.10	8,566.5	544.6	612.3	0.21	-0.11	7.89	-6.1	13.2
8,718.0	1.10	159.70	8,659.5	542.9	613.2	0.39	-0.22	15.70	-4.5	14.5
8,811.0	1.30	168.30	8,752.4	541.0	613.7	0.29	0.22	9.25	-4.2	15.2
8,905.0	1.10	191.70	8,846.4	539.1	613.7	0.56	-0.21	24.89	0.3	16.0
8,998.0	1.00	197.90	8,939.4	537.4	613.3	0.16	-0.11	6.67	0.4	16.0
9,092.0	1.10	200.70	9,033.4	535.8	612.7	0.12	0.11	2.98	-0.6	16.0
9,186.0	1.10	227.90	9,127.4	534.3	611.8	0.55	0.00	28.94	5.1	14.9
9,279.0	1.00	237.20	9,220.4	533.3	610.4	0.21	-0.11	10.00	5.7	14.0
9,373.0	0.50	260.10	9,314.3	532.8	609.3	0.61	-0.53	24.36	9.6	11.0
9,466.0	0.90	268.90	9,407.3	532.7	608.2	0.44	0.43	9.46	10.0	9.5
9,560.0	2.10	271.00	9,501.3	532.7	605.7	1.28	1.28	2.23	7.9	9.1
9,654.0	2.50	279.40	9,595.2	533.1	602.0	0.56	0.43	8.94	5.4	8.1
9,748.0	0.70	292.10	9,689.2	533.6	599.4	1.94	-1.91	13.51	4.5	7.2
9,843.0	1.10	295.80	9,784.2	534.3	598.1	0.43	0.42	3.89	3.4	6.9
9,937.0	1.70	299.60	9,878.1	535.3	596.0	0.65	0.64	4.04	1.6	6.8
10,031.0	1.20	4.50	9,972.1	537.0	594.9	1.72	-0.53	69.04	5.2	2.7
10,125.0	1.10	34.40	10,066.1	538.7	595.5	0.64	-0.11	31.81	4.1	0.2
10,219.0	0.90	24.90	10,160.1	540.2	596.3	0.28	-0.21	-10.11	2.4	0.8
10,312.0	0.60	71.00	10,253.1	541.0	597.1	0.70	-0.32	49.57	1.2	-0.7
10,405.0	0.40	38.10	10,346.1	541.4	597.7	0.37	-0.22	-35.38	0.6	-0.2
10,499.0	0.40	16.50	10,440.1	542.0	598.0	0.16	0.00	-22.98	0.0	0.0
10,592.0	0.40	26.80	10,533.1	542.6	598.3	0.08	0.00	11.08	-0.6	0.0
10,687.0	0.80	86.20	10,628.1	542.9	599.1	0.72	0.42	62.53	-1.1	0.8
10,780.0	0.60	52.50	10,721.1	543.2	600.1	0.48	-0.22	-36.24	-2.4	-0.3
10,874.0	0.70	4.90	10,815.1	544.1	600.6	0.57	0.11	-50.64	-2.3	-2.4
10,968.0	0.70	303.50	10,909.1	545.0	600.1	0.76	0.00	-65.32	0.1	-3.7
11,062.0	1.20	308.80	11,003.0	545.9	598.9	0.54	0.53	5.64	-1.8	-3.6

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #705H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3434.0usft
Site:	Green Drake 16 Fed Com	**MD Reference:**	KB = 25 @ 3434.0usft
Well:	#705H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
11,155.0	1.20	304.00	11,096.0	547.1	597.3	0.11	0.00	-5.16	-3.4	-3.8
11,249.0	1.30	300.90	11,190.0	548.2	595.6	0.13	0.11	-3.30	-5.2	-4.1
11,343.0	1.70	302.30	11,284.0	549.5	593.5	0.43	0.43	1.49	-7.8	-3.9
11,436.0	1.10	302.50	11,376.9	550.7	591.6	0.65	-0.65	0.22	-10.1	-3.9
11,530.0	1.40	295.80	11,470.9	551.7	589.8	0.35	0.32	-7.13	-11.6	-5.1
11,624.0	1.60	287.70	11,564.9	552.6	587.5	0.31	0.21	-8.62	-13.2	-6.9
11,718.0	1.90	287.20	11,658.8	553.4	584.8	0.32	0.32	-0.53	-16.0	-7.0
11,770.0	1.80	292.10	11,710.8	554.0	583.2	0.36	-0.19	9.42	-18.2	-5.5
11,853.0	1.00	302.80	11,793.8	554.9	581.4	1.01	-0.96	12.89	-21.0	-1.8
11,947.0	0.60	316.70	11,887.8	555.7	580.3	0.47	-0.43	14.79	-22.1	3.5
12,040.0	1.40	144.10	11,980.8	555.1	580.7	2.15	0.86	-185.59	20.8	-6.3
12,134.0	15.20	162.00	12,073.6	542.4	585.2	14.76	14.68	19.04	14.4	-9.0
12,228.0	29.20	168.00	12,160.4	508.1	593.8	15.07	14.89	6.38	5.0	-3.6
12,321.0	36.90	170.10	12,238.3	458.3	603.3	8.37	8.28	2.26	-3.0	4.5
12,414.0	50.50	175.00	12,305.4	394.8	611.3	15.06	14.62	5.27	-9.3	12.0
12,508.0	59.30	177.50	12,359.4	318.1	616.2	9.61	9.36	2.66	-15.3	16.7
12,600.0	70.10	178.50	12,398.6	235.1	619.1	11.78	11.74	1.09	-18.6	19.2
12,647.0	78.30	179.40	12,411.4	189.9	619.9	17.54	17.45	1.91	-21.0	19.9
12,693.0	79.60	179.80	12,420.2	144.8	620.2	2.95	2.83	0.87	-22.6	20.0
12,740.0	79.10	179.20	12,428.9	98.6	620.6	1.64	-1.06	-1.28	-19.7	20.2
12,787.0	79.40	179.20	12,437.7	52.4	621.3	0.64	0.64	0.00	-12.1	20.6
12,834.0	84.10	180.10	12,444.4	5.9	621.6	10.18	10.00	1.91	-5.4	20.5
12,880.0	85.60	181.20	12,448.6	-39.9	621.0	4.04	3.26	2.39	-1.2	19.7
12,974.0	88.60	180.50	12,453.3	-133.8	619.6	3.28	3.19	-0.74	3.6	17.8
13,068.0	88.40	181.50	12,455.8	-227.7	618.0	1.08	-0.21	1.06	6.2	15.6
13,161.0	89.20	179.60	12,457.7	-320.7	617.1	2.22	0.86	-2.04	8.3	14.2
13,254.0	91.00	180.10	12,457.6	-413.7	617.4	2.01	1.94	0.54	8.2	13.9

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #705H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3434.0usft
Site:	Green Drake 18 Fed Com	**MD Reference:**	KB = 25 @ 3434.0usft
Well:	#705H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
13,348.0	88.90	182.70	12,457.7	-507.6	615.1	3.56	-2.23	2.77	8.4	11.1
13,441.0	88.50	181.70	12,459.8	-600.5	611.5	1.16	-0.43	-1.08	10.7	7.0
13,535.0	89.30	185.00	12,461.6	-694.4	606.0	3.61	0.85	3.51	12.6	1.0
13,628.0	91.30	182.60	12,461.1	-787.1	599.8	3.36	2.15	-2.58	12.2	-5.7
13,722.0	92.10	182.00	12,458.3	-881.0	596.1	1.06	0.85	-0.64	9.6	-10.0
13,816.0	89.20	178.20	12,457.2	-975.0	595.9	5.08	-3.09	-4.04	8.6	-10.7
13,910.0	89.50	177.80	12,458.3	-1,068.9	599.2	0.53	0.32	-0.43	9.8	-7.9
14,004.0	89.70	177.50	12,459.0	-1,162.8	603.0	0.38	0.21	-0.32	10.6	-4.6
14,097.0	90.60	177.30	12,458.7	-1,255.7	607.3	0.99	0.97	-0.22	10.5	-0.9
14,191.0	92.10	178.20	12,456.5	-1,349.6	610.9	1.86	1.60	0.96	8.4	2.2
14,285.0	89.80	179.10	12,454.9	-1,443.6	613.2	2.63	-2.45	0.96	6.9	3.9
14,379.0	90.00	180.60	12,455.1	-1,537.6	613.4	1.61	0.21	1.60	7.7	3.6
14,473.0	90.70	182.70	12,454.5	-1,631.5	610.7	2.35	0.74	2.23	7.9	0.4
14,567.0	92.90	182.00	12,451.6	-1,725.4	606.8	2.46	2.34	-0.74	5.7	-4.0
14,660.0	89.60	178.50	12,449.5	-1,818.4	606.4	5.17	-3.55	-3.76	4.4	-4.9
14,754.0	88.50	177.10	12,451.1	-1,912.3	610.0	1.89	-1.17	-1.49	6.7	-1.9
14,848.0	88.70	177.70	12,453.4	-2,006.1	614.3	0.67	0.21	0.64	9.8	1.9
14,941.0	89.20	179.10	12,455.1	-2,099.1	616.9	1.60	0.54	1.51	12.2	3.9
15,034.0	90.90	178.20	12,455.0	-2,192.1	619.1	2.07	1.83	-0.97	12.9	5.6
15,128.0	91.30	176.90	12,453.2	-2,286.0	623.1	1.45	0.43	-1.38	11.8	9.1
15,221.0	91.30	176.60	12,451.1	-2,378.8	628.4	0.32	0.00	-0.32	10.5	13.8
15,315.0	92.20	177.10	12,448.2	-2,472.6	633.5	1.10	0.96	0.53	8.4	18.4
15,408.0	89.60	178.50	12,446.8	-2,565.5	637.1	3.18	-2.80	1.51	7.6	21.5
15,502.0	90.70	180.60	12,446.5	-2,659.5	637.9	2.52	1.17	2.23	8.1	21.7
15,595.0	94.20	181.00	12,442.6	-2,752.4	636.6	3.78	3.76	0.43	4.9	19.9
15,689.0	89.30	180.10	12,439.7	-2,846.3	635.7	5.30	-5.21	-0.96	2.8	18.5
15,783.0	91.60	181.20	12,438.9	-2,940.3	634.6	2.71	2.45	1.17	2.8	16.9

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #705H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3434.0usft
Site:	Green Drake 16 Fed Com	**MD Reference:**	KB = 25 @ 3434.0usft
Well:	#705H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,875.0	89.50	180.10	12,438.1	-3,032.3	633.5	2.58	-2.28	-1.20	2.6	15.3
15,969.0	89.30	179.40	12,439.0	-3,126.3	634.0	0.77	-0.21	-0.74	4.2	15.2
16,063.0	92.00	180.10	12,438.0	-3,220.3	634.4	2.97	2.87	0.74	3.7	15.0
16,156.0	88.60	180.60	12,437.5	-3,313.2	633.8	3.70	-3.66	0.54	3.9	13.9
16,250.0	87.50	180.50	12,440.7	-3,407.2	632.9	1.18	-1.17	-0.11	7.7	12.5
16,343.0	90.60	181.00	12,442.2	-3,500.1	631.7	3.38	3.33	0.54	9.8	10.8
16,437.0	91.20	181.20	12,440.8	-3,594.1	629.9	0.67	0.64	0.21	9.0	8.4
16,531.0	91.70	181.20	12,438.4	-3,688.1	627.9	0.53	0.53	0.00	7.2	5.9
16,625.0	88.90	180.10	12,437.9	-3,782.0	626.8	3.20	-2.98	-1.17	7.4	4.3
16,719.0	93.80	181.30	12,435.7	-3,876.0	625.7	5.37	5.21	1.28	5.8	2.7
16,812.0	92.60	178.90	12,430.5	-3,968.8	625.5	2.88	-1.29	-2.58	1.2	2.0
16,906.0	93.60	179.80	12,425.4	-4,062.7	626.6	1.43	1.06	0.96	-3.3	2.5
16,999.0	89.00	179.80	12,423.3	-4,155.6	626.9	4.95	-4.95	0.00	-4.7	2.3
17,092.0	90.20	180.80	12,423.9	-4,248.6	626.4	1.68	1.29	1.08	-3.5	1.3
17,186.0	89.50	180.10	12,424.2	-4,342.6	625.7	1.05	-0.74	-0.74	-2.6	0.0
17,280.0	92.20	180.50	12,422.8	-4,436.6	625.2	2.90	2.87	0.43	-3.4	-1.0
17,374.0	91.50	180.50	12,419.8	-4,530.6	624.4	0.74	-0.74	0.00	-5.7	-2.4
17,467.0	90.90	179.40	12,417.8	-4,623.5	624.5	1.35	-0.65	-1.18	-6.9	-2.8
17,560.0	90.80	179.80	12,416.4	-4,716.5	625.1	0.44	-0.11	0.43	-7.5	-2.7
17,653.0	92.50	179.80	12,413.7	-4,809.5	625.4	1.83	1.83	0.00	-9.5	-2.9
17,746.0	94.80	180.80	12,407.8	-4,902.3	625.0	2.70	2.47	1.08	-14.7	-3.9
17,840.0	86.10	179.10	12,407.1	-4,996.2	625.0	9.43	-9.26	-1.81	-14.6	-4.4
17,932.0	88.60	179.20	12,411.3	-5,088.1	626.4	2.72	2.72	0.11	-9.7	-3.5
18,026.0	89.20	179.40	12,413.1	-5,182.0	627.6	0.67	0.64	0.21	-7.1	-2.9
18,120.0	93.50	179.90	12,410.9	-5,276.0	628.1	4.61	4.57	0.53	-6.6	-2.9
18,214.0	91.40	179.90	12,406.9	-5,369.9	628.3	2.23	-2.23	0.00	-11.8	-3.2
18,308.0	88.00	178.70	12,407.4	-5,463.9	629.4	3.84	-3.62	-1.28	-10.6	-2.6

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #705H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3434.0usft
Site:	Green Drake 16 Fed Com	**MD Reference:**	KB = 25 @ 3434.0usft
Well:	#705H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
18,402.0	86.50	177.70	12,411.9	-5,557.7	632.4	1.92	-1.60	-1.06	-5.3	-0.2
18,496.0	87.70	179.20	12,416.7	-5,651.6	634.9	2.04	1.28	1.60	0.2	1.8
18,589.0	92.00	180.30	12,416.9	-5,744.5	635.3	4.77	4.62	1.18	1.1	1.7
18,683.0	94.30	180.10	12,411.8	-5,838.4	635.0	2.46	2.45	-0.21	-3.3	0.8
18,776.0	93.60	179.40	12,405.3	-5,931.2	635.4	1.08	-0.75	-0.75	-8.9	0.7
18,871.0	90.30	178.70	12,402.1	-6,026.1	637.0	3.55	-3.47	-0.74	-11.1	1.8
18,964.0	89.40	178.20	12,402.4	-6,119.0	639.5	1.11	-0.97	-0.54	-9.5	3.7
19,058.0	89.80	178.50	12,403.0	-6,213.0	642.2	0.53	0.43	0.32	-7.5	5.9
19,152.0	88.70	177.70	12,404.2	-6,306.9	645.3	1.45	-1.17	-0.85	-4.9	8.5
19,246.0	87.10	176.80	12,407.7	-6,400.8	649.8	1.95	-1.70	-0.96	-0.2	12.5
19,339.0	89.70	179.80	12,410.3	-6,493.7	652.6	4.27	2.80	3.23	3.8	14.7
19,433.0	91.60	181.30	12,409.2	-6,587.6	651.7	2.58	2.02	1.60	4.1	13.3
19,526.0	91.20	183.30	12,406.9	-6,680.5	648.0	2.19	-0.43	2.15	3.2	9.0
19,620.0	90.00	186.10	12,406.0	-6,774.2	640.3	3.24	-1.28	2.98	3.5	0.8
19,714.0	93.60	184.70	12,403.0	-6,867.7	631.4	4.11	3.83	-1.49	2.0	-8.6
19,807.0	91.10	184.50	12,399.2	-6,960.3	624.0	2.70	-2.69	-0.22	-0.5	-16.6
19,901.0	90.50	191.70	12,397.9	-7,053.3	610.7	7.69	-0.64	7.66	-0.5	-30.3
20,056.0	90.50	191.70	12,396.5	-7,205.1	579.3	0.00	0.00	0.00	0.4	-62.6

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
12,025.0	11,965.8	555.4	580.5	KOP, MD:12025.0', TVD:11965.8',N/S:555.4', E/W:580.5', INC:1.08
12,260.3	12,188.2	492.0	597.1	FTP Crossing, MD:12260.3', TVD:12188.2',N/S:492.0', E/W:597.1', INC:31.87
19,901.0	12,397.9	-7,053.3	610.7	Last MWD Survey (MD=19901.0')
20,056.0	12,396.5	-7,205.1	579.3	Projection to Bit (MD=20056.0')

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #705H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3434.0usft
Site:	Green Drake 18 Fed Com	**MD Reference:**	KB = 25 @ 3434.0usft
Well:	#705H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14

Checked By: _____ Approved By: _____ Date: _____

eog resources

Lea County, NM (NAD 83 NME)

Green Drake 16 Fed Com #705H

Plan #2

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

To convert a Magnetic Direction to a Grid Direction, Add 6.44°
To convert a Magnetic Direction to a True Direction, Add 6.84° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

WELL DETAILS: #705H

3409.0
KB = 25 @ 3434.0usft

Northing	Easting	Latitude	Longitude
411468.00	774338.00	32° 7' 44.281 N	103° 34' 50.318 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	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1581.6	7.63	47.81	1580.5	17.0	18.8	2.00	47.81	-15.3	
4	7276.1	7.63	47.81	7224.5	525.0	579.2	0.00	0.00	-471.6	
5	7657.7	0.00	0.00	7605.0	542.0	598.0	2.00	180.00	-486.9	Brushy Top(GD 16 FC #705H)
6	12025.2	0.00	0.00	11972.5	542.0	598.0	0.00	0.00	-486.9	
7	12775.8	90.07	179.68	12450.0	63.9	600.7	12.00	179.68	-10.5	
8	14291.5	90.07	179.68	12448.0	-1451.7	609.3	0.00	0.00	1500.0	TGT#1(GD 16 FC #705H)
9	14310.7	90.46	179.68	12447.9	-1470.9	609.4	2.00	0.00	1519.1	
10	15796.7	90.46	179.68	12436.0	-2956.9	617.8	0.00	0.00	3000.0	TGT#2(GD 16 FC #705H)
11	15800.7	90.38	179.68	12436.0	-2960.8	617.9	2.00	180.00	3003.9	
12	17302.0	90.38	179.68	12426.0	-4462.1	626.4	0.00	0.00	4500.0	TGT#3(GD 16 FC #705H)
13	17305.8	90.46	179.68	12426.0	-4465.9	626.4	2.00	0.00	4503.8	
14	18807.2	90.46	179.68	12414.0	-5967.2	634.9	0.00	0.00	6000.0	TGT#4(GD 16 FC #705H)
15	18825.6	90.83	179.68	12413.8	-5985.6	635.0	2.00	0.00	6018.4	
16	20060.1	90.83	179.68	12398.0	-7220.0	642.0	0.00	0.00	7248.5	PBHL(GD 16 FC #705H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(GD 16 FC #705H)	7605.0	542.0	598.0	412010.00	774838.00
PBHL(GD 16 FC #705H)	12398.0	-7220.0	642.0	404248.00	774880.00
TGT#4(GD 16 FC #705H)	12414.0	-5967.2	634.9	405505.80	774872.90
TGT#3(GD 16 FC #705H)	12426.0	-4462.1	626.4	407005.80	774864.37
TGT#2(GD 16 FC #705H)	12436.0	-2956.9	617.8	408511.10	774855.83
TGT#1(GD 16 FC #705H)	12448.0	-1451.7	609.3	410016.30	774847.30
FTP(GD 16 FC #705H)	12450.0	432.0	598.0	411960.00	774838.00