



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Green Drake 16 Fed Com

#759H

OH

Design: OH

Midland PVA

11 August, 2019



Midland PVA

Company:	EOG Resources - Midland		Local Co-ordinate Reference:	Well #759H
Project:	Lea County, NM (NAD 83 NME)		TVD Reference:	KB = 25 @ 3423.0usft
Site:	Green Drake 16 Fed Com		MD Reference:	KB = 25 @ 3423.0usft
Well:	#759H		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:		Northings:	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	#759H					
Well Position	+N/S	0.0 usft	Northings:	411,813.00 usft	Latitude:	32° 7' 47.603 N
	+E/W	0.0 usft	Easting:	775,658.00 usft	Longitude:	103° 34' 34.940 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,398.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2018	6.83	59.96	47,769.02374562

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	168.65	

Survey Program	Date 8/11/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
229.0	20,720.0	Drilltech MWD (OH)	MWD	CWSQ MWD - Standard



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well 0759H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3423.0ush
Site:	Green Drake 16 Fed Com.	MD Reference:	KB = 25 @ 3423.0ush
Well:	0759H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (ush)	Inc (°)	Azi (azimuth) (°)	TVD (ush)	N/S (ush)	E/W (ush)	DLeg (°/100ush)	Build (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
229.0	0.60	277.50	229.0	0.2	-1.6	0.35	0.35	0.00	-1.6	0.0
316.0	0.60	262.10	316.0	0.2	-2.6	0.33	-0.23	-20.00	-2.6	-0.7
377.0	0.60	256.50	377.0	0.1	-3.3	-0.03	0.00	-2.62	-3.2	-0.7
490.0	0.60	229.40	490.0	-0.4	-4.3	0.27	0.00	-25.75	-3.5	-2.5
605.0	0.40	220.90	605.0	-1.1	-5.0	0.19	-0.17	-7.39	-4.1	-3.1
668.0	0.40	261.00	668.0	-1.3	-5.4	0.44	0.00	63.65	-3.5	0.5
761.0	0.40	263.00	761.0	-1.4	-6.0	0.02	0.00	2.15	-6.1	0.7
854.0	0.40	263.00	854.0	-1.5	-6.7	0.00	0.00	0.00	-6.6	0.7
948.0	0.60	245.60	948.0	-1.7	-7.4	0.26	0.21	-18.51	-7.5	-1.3
1,042.0	0.60	225.30	1,042.0	-2.4	-8.4	0.42	0.32	-21.60	-7.7	-4.2
1,217.0	0.60	192.90	1,216.9	-4.6	-6.7	0.26	-0.06	-18.51	-6.6	-6.4
1,311.0	1.90	261.60	1,310.9	-4.9	-11.3	2.16	1.17	94.57	-6.4	7.1
1,404.0	4.70	293.00	1,403.8	-3.1	-16.3	3.08	3.01	12.04	-9.6	6.4
1,498.0	7.80	290.80	1,497.2	0.7	-25.9	3.41	3.40	-2.34	-13.9	6.6
1,591.0	10.30	289.40	1,589.0	6.7	-39.6	2.59	2.56	-1.51	-19.3	5.0
1,685.0	12.60	267.40	1,681.1	11.6	-57.6	2.69	2.66	-2.13	-25.7	2.7
1,778.0	13.60	267.10	1,771.6	17.9	-77.9	0.66	0.66	-0.32	-31.5	1.0
1,871.0	13.60	267.70	1,862.0	24.5	-98.9	0.26	0.22	0.65	-33.5	-0.5
1,965.0	13.50	267.40	1,953.3	31.2	-120.1	0.33	-0.32	-0.32	-39.2	-2.7
2,058.0	13.60	267.00	2,043.7	37.6	-140.9	0.15	0.11	-0.43	-42.6	-4.6
2,152.0	13.40	268.50	2,135.1	44.3	-161.6	0.43	-0.21	1.60	-46.1	-3.7
2,245.0	13.40	269.10	2,225.6	51.3	-182.2	0.16	-0.00	0.65	-49.4	-7.6
2,339.0	13.10	269.70	2,317.1	58.6	-202.4	0.50	-0.32	1.70	-52.7	-6.8
2,433.0	12.80	263.70	2,408.7	66.5	-221.9	0.76	-0.32	3.19	-55.9	-6.6
2,526.0	12.80	266.20	2,499.4	75.2	-240.6	0.60	0.00	2.69	-59.9	-11.5
2,619.0	12.00	269.40	2,590.2	83.0	-259.0	1.79	-0.68	-7.31	-58.6	-22.0



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well 6759H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3423.0usft
Site:	Green Drake 16 Fed Com	MD Reference:	KB = 25 @ 3423.0usft
Well:	6759H	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)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
2,713.0	12.00	278.70	2,882.2	87.8	-277.8	2.14	0.00	-10.32	-55.0	-32.5	
2,808.0	12.00	279.80	2,773.2	91.2	-286.9	0.04	0.00	0.22	-55.9	-31.7	
2,899.0	11.30	281.90	2,864.2	94.7	-315.3	0.87	-0.75	2.15	-57.2	-29.6	
2,983.0	11.10	284.70	2,956.5	98.9	-333.1	0.62	-0.21	2.68	-58.1	-27.4	
3,086.0	10.20	288.60	3,047.9	103.8	-349.6	1.24	-0.87	4.19	-58.6	-25.2	
3,180.0	9.70	293.30	3,140.4	109.6	-364.7	1.01	-0.53	5.00	-58.2	-23.5	
3,274.0	10.00	284.10	3,233.1	114.7	-379.9	1.70	0.32	-8.79	-51.0	-34.5	
3,367.0	11.10	278.50	3,324.5	117.7	-386.6	1.90	1.18	-8.17	-44.6	-40.3	
3,461.0	11.80	273.70	3,416.8	119.4	-415.3	1.04	0.85	-2.98	-42.8	-40.2	
3,554.0	11.20	278.80	3,507.7	121.0	-433.8	1.01	-0.75	3.33	-45.0	-35.8	
3,648.0	10.50	278.50	3,600.0	123.4	-451.4	0.80	-0.74	1.60	-44.8	-33.5	
3,741.0	10.40	276.90	3,691.5	125.6	-468.1	0.29	-0.11	-1.51	-42.4	-33.2	
3,834.0	8.30	278.80	3,783.1	127.5	-483.9	1.18	-1.18	-0.11	-39.7	-31.8	
3,926.0	9.10	279.40	3,873.9	129.1	-498.5	0.33	-0.22	-1.52	-38.3	-31.0	
4,020.0	11.10	274.10	3,966.5	130.4	-514.9	2.14	2.13	-1.38	-32.5	-29.5	
4,114.0	10.70	275.40	4,058.8	131.9	-532.7	0.50	-0.43	1.38	-32.3	-26.6	
4,207.0	9.80	271.20	4,150.3	132.9	-549.2	1.18	-0.88	-4.82	-28.6	-26.2	
4,300.0	9.80	271.90	4,241.9	133.3	-565.1	0.17	-0.11	0.75	-28.5	-22.6	
4,394.0	10.10	280.00	4,334.5	135.0	-581.3	1.52	0.32	8.82	-28.8	-17.1	
4,488.0	11.30	282.80	4,424.9	138.4	-598.0	1.42	1.30	3.04	-28.3	-15.9	
4,580.0	11.80	284.80	4,517.1	142.8	-616.0	0.47	0.21	2.13	-28.7	-15.7	
4,674.0	8.60	281.50	4,609.6	146.6	-632.0	3.14	-3.09	-3.51	-23.3	-17.7	
4,767.0	8.80	283.50	4,701.5	148.7	-645.7	0.39	0.22	2.15	-19.4	-17.3	
4,861.0	10.70	287.60	4,794.2	154.0	-661.0	2.15	2.02	4.36	-17.8	-17.4	
4,958.0	12.80	288.40	4,887.2	160.0	-679.4	2.22	2.21	0.84	-18.6	-18.3	
5,049.0	12.10	287.90	4,979.0	166.2	-698.5	0.76	-0.75	-0.54	-20.1	-21.6	
5,142.0	11.40	287.20	5,069.0	171.9	-718.5	0.77	-0.75	-0.75	-20.3	-23.8	



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Well:	6759H	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)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,236.0	11.90	285.50	5,181.1	177.3	-734.7	0.65	0.53	-1.81	-19.9	-28.0	
5,330.0	12.00	283.20	5,233.1	182.1	-753.6	0.52	0.11	-2.45	-19.6	-27.7	
5,424.0	12.30	282.20	5,345.0	186.4	-772.9	0.39	0.32	-1.06	-20.2	-28.4	
5,517.0	12.80	281.20	5,435.7	190.8	-792.7	0.58	0.54	-1.08	-21.4	-28.8	
5,611.0	12.50	278.80	5,527.5	194.1	-812.9	0.64	-0.32	-2.55	-22.1	-28.3	
5,705.0	12.10	278.00	5,619.3	197.2	-832.7	0.43	-0.43	0.21	-23.6	-28.3	
5,799.0	12.00	281.00	5,710.3	200.6	-851.8	0.48	-0.11	2.15	-23.4	-27.0	
5,891.0	11.30	280.00	5,801.3	204.0	-870.3	0.78	-0.75	-1.08	-23.2	-27.1	
5,984.0	10.30	278.90	5,892.7	208.9	-887.5	1.10	-1.08	-1.18	-23.6	-26.9	
6,078.0	8.40	278.50	5,985.4	209.2	-902.6	2.02	-2.02	-0.32	-19.9	-26.2	
6,172.0	8.50	287.50	6,078.7	211.6	-913.7	3.29	-3.09	9.78	-16.4	-23.7	
6,265.0	4.50	278.00	6,171.4	213.5	-921.5	1.41	-1.08	-10.54	-3.6	-25.8	
6,358.0	2.80	278.90	6,264.2	214.3	-927.2	2.04	-2.04	0.97	3.9	-25.1	
6,452.0	1.30	334.20	6,358.2	215.8	-928.8	2.28	-1.38	58.83	-14.2	-24.3	
6,546.0	1.20	325.30	6,452.1	217.4	-930.8	0.23	-0.11	-9.47	-8.7	-31.7	
6,639.0	1.40	321.40	6,545.1	219.0	-932.1	0.24	0.22	-4.19	-3.2	-33.1	
6,732.0	1.40	326.40	6,638.1	220.9	-933.4	0.13	0.00	5.38	-7.4	-35.8	
6,826.0	1.50	329.80	6,732.0	222.9	-934.7	0.14	0.11	3.82	-11.9	-35.1	
6,919.0	1.30	322.00	6,825.0	224.8	-935.9	0.30	-0.22	-8.39	-9.3	-36.5	
7,012.0	1.10	318.50	6,918.0	226.3	-937.2	0.23	-0.22	-3.76	-9.0	-37.1	
7,106.0	1.00	314.20	7,012.0	227.5	-938.4	0.14	-0.11	-4.57	-7.9	-37.7	
7,199.0	0.60	305.70	7,105.0	228.4	-939.3	0.45	-0.43	-9.14	-3.5	-38.8	
7,293.0	0.80	282.40	7,199.0	228.8	-940.2	0.26	0.00	-24.79	11.1	-37.0	
7,387.0	0.60	250.10	7,293.0	228.7	-941.2	0.36	0.00	-34.36	28.2	-25.8	
7,481.0	0.60	244.50	7,387.0	228.3	-942.1	0.06	0.00	-8.86	29.6	-22.8	
7,574.0	0.50	246.40	7,480.0	228.0	-942.9	0.11	-0.11	2.04	28.0	-23.8	
7,668.0	0.90	228.00	7,573.9	227.3	-943.8	0.49	0.43	-21.70	33.4	-12.7	



Midland PVA

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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3423.0ush
Site:	Green Draka 16 Fed Com	MD Reference:	KB = 25 @ 3423.0ush
Well:	#759H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (ush)	Inc (°)	Azi (azimuth) (°)	TVD (ush)	N/S (ush)	E/W (ush)	DLeg (°/100ush)	Bulld (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)
7,762.0	1.10	197.50	7,667.9	225.9	-944.6	0.56	0.21	-30.32	33.8	4.4
7,856.0	1.00	202.40	7,761.9	224.3	-945.2	0.14	-0.11	5.21	32.3	1.6
7,948.0	0.80	215.50	7,853.9	223.0	-945.9	0.31	-0.22	14.24	30.4	-3.6
8,042.0	0.80	207.70	7,947.9	221.9	-946.5	0.12	0.00	-8.30	28.6	-1.5
8,135.0	1.10	200.60	8,040.9	220.5	-947.2	0.35	0.32	-7.63	28.0	2.1
8,229.0	1.40	179.70	8,134.9	218.5	-947.5	0.59	0.32	-22.23	23.4	11.7
8,323.0	1.40	179.50	8,228.9	216.2	-947.5	0.01	0.00	-0.21	21.1	11.7
8,421.0	1.50	180.80	8,326.8	213.7	-947.5	0.11	0.10	1.33	18.9	11.3
8,515.0	1.40	188.50	8,420.8	211.4	-947.6	0.23	-0.11	8.19	17.9	6.8
8,608.0	1.60	182.50	8,513.7	208.9	-947.9	0.27	0.22	-6.45	14.4	10.5
8,701.0	1.80	180.40	8,606.7	206.2	-947.9	0.23	0.22	-2.26	11.3	11.0
8,795.0	1.80	182.00	8,700.7	203.2	-948.0	0.05	0.00	1.70	8.8	10.7
8,888.0	1.80	185.10	8,793.6	200.3	-948.2	0.10	0.00	3.33	6.3	10.3
8,983.0	1.60	188.20	8,886.6	197.5	-948.5	0.23	-0.21	3.26	4.0	10.0
9,077.0	1.60	192.50	8,982.5	194.8	-949.0	0.25	0.21	4.57	1.9	9.8
9,170.0	1.60	192.60	9,078.5	191.9	-949.6	0.00	0.00	0.11	-1.0	9.8
9,263.0	1.30	188.80	9,168.4	189.5	-950.1	0.56	-0.54	-6.24	-4.4	8.5
9,357.0	1.50	179.60	9,262.4	187.2	-950.2	0.28	0.21	-7.66	-7.9	8.7
9,451.0	1.40	180.50	9,356.4	184.8	-950.2	0.11	-0.11	0.06	-10.1	8.9
9,545.0	1.80	173.00	9,450.4	182.2	-950.0	0.49	0.43	-7.88	-13.8	7.3
9,637.0	1.90	142.50	9,542.3	178.5	-948.9	1.06	0.11	-33.16	-18.4	-1.4
9,730.0	1.60	155.90	9,635.3	177.1	-947.5	0.54	-0.32	14.41	-21.0	3.2
9,825.0	0.70	89.40	9,730.2	175.9	-948.3	1.55	-0.85	-70.80	-12.5	-19.2
9,918.0	0.60	58.90	9,823.2	176.3	-945.2	0.50	0.22	-32.60	-2.2	-23.2
10,012.0	1.80	58.80	9,917.2	177.5	-943.3	0.96	0.66	-2.23	-3.6	-23.3
10,106.0	1.50	52.60	10,011.2	178.0	-941.1	0.34	-0.32	-4.47	-4.6	-23.6
10,200.0	1.00	73.50	10,105.1	180.0	-939.3	0.71	-0.53	22.23	-14.6	-20.0



Midland PVA

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Project:	Los County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3423.0ush
Site:	Green Drake 16 Fed Com	MD Reference:	KB = 25 @ 3423.0ush
Well:	#755H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (ush)	Inc (°)	Azi (azimuth) (°)	TVD (ush)	N/S (ush)	EW (ush)	DLeg (°/100ush)	Build (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)	
10,284.0	0.80	51.80	10,193.1	180.7	-838.0	0.42	-0.21	-23.09	-7.6	-24.2	
10,388.0	0.40	42.20	10,293.1	181.3	-937.3	0.44	-0.43	-10.21	-4.5	-25.3	
10,481.0	0.40	33.70	10,386.1	181.8	-936.9	0.06	0.00	-9.14	-1.3	-25.7	
10,575.0	1.10	334.70	10,480.1	182.9	-937.1	1.02	0.74	-82.77	20.3	-14.7	
10,668.0	1.40	314.20	10,573.1	184.5	-938.3	0.57	0.32	-22.04	22.2	-8.8	
10,762.0	2.20	305.10	10,667.1	188.4	-940.6	0.80	0.85	-8.68	20.1	-3.5	
10,856.0	2.40	296.10	10,761.0	188.3	-943.6	0.44	0.21	-8.57	18.6	-0.8	
10,950.0	2.50	292.20	10,854.8	189.9	-947.5	0.21	0.11	-4.15	12.6	0.4	
11,044.0	3.30	305.80	10,948.8	192.3	-951.6	1.12	0.85	14.47	7.6	-2.1	
11,138.0	3.10	294.80	11,042.8	194.9	-956.1	0.69	-0.21	-11.70	2.7	-1.1	
11,232.0	2.30	284.10	11,136.5	196.5	-960.4	0.84	-0.64	-11.38	-1.7	-1.1	
11,325.0	2.30	289.30	11,229.4	197.8	-964.1	0.32	-0.22	5.59	-5.7	-0.7	
11,419.0	2.40	281.30	11,323.4	198.8	-967.8	0.36	0.11	-8.51	-9.3	-1.8	
11,512.0	1.50	256.00	11,418.3	199.7	-970.9	1.32	-0.97	-27.20	-10.7	-8.4	
11,606.0	1.80	202.80	11,510.3	197.0	-972.7	1.59	0.32	-56.49	-3.6	-13.4	
11,700.0	2.00	265.30	11,604.2	195.5	-974.9	2.10	0.21	66.38	-15.8	-1.8	
11,793.0	1.80	235.80	11,697.2	194.7	-977.6	1.07	-0.43	-31.72	-15.5	-10.2	
11,887.0	1.30	212.80	11,791.2	193.0	-979.2	0.89	-0.32	-24.47	-12.6	-15.9	
11,981.0	1.90	207.30	11,885.1	190.7	-980.5	0.66	0.64	-5.85	-13.6	-17.2	
12,075.0	1.60	194.50	11,978.1	188.1	-981.6	0.62	-0.32	-13.62	-12.3	-20.1	
12,168.0	1.10	189.10	12,072.0	186.0	-982.0	0.68	-0.54	-3.81	-12.6	-21.3	
12,262.0	1.10	199.00	12,172.0	184.1	-982.5	0.19	0.00	9.80	-18.0	-18.7	
12,361.0	1.10	172.80	12,265.0	182.4	-982.7	0.54	0.00	-28.17	-9.8	-25.1	
12,455.0	1.20	164.20	12,359.0	180.5	-982.3	0.21	0.11	-8.15	-7.6	-26.4	
12,549.0	1.30	169.30	12,453.0	178.5	-981.8	0.14	0.11	4.36	-11.5	-26.7	
12,608.0	1.10	158.10	12,512.0	177.4	-981.4	0.58	-0.34	-20.68	-7.0	-27.7	
12,679.0	0.80	158.40	12,582.9	176.3	-981.0	0.43	-0.42	3.24	-9.3	-27.3	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #758H
Project:	Las County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3423.0ush
Site:	Green Drake 16 Fed Com	MD Reference:	KB = 25 @ 3423.0ush
Well:	#758H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (ush)	Incl (°)	Azi (azimuth) (°)	TVD (ush)	N/S (ush)	E/W (ush)	DLeg (°/100ush)	Build (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)
12,773.0	2.30	113.90	12,676.9	174.9	-979.0	1.93	1.60	-47.34	10.5	-28.7
12,867.0	25.50	163.10	12,767.6	154.5	-971.3	25.59	24.68	52.34	-20.2	-18.9
12,914.0	39.90	165.40	12,807.1	130.1	-964.5	30.75	30.64	4.89	-33.1	-14.5
12,961.0	44.50	168.70	12,841.9	99.3	-957.5	10.88	9.79	7.02	-49.1	-7.9
13,008.0	46.00	175.90	12,875.0	68.3	-953.1	11.33	3.18	15.32	-62.1	1.8
13,055.0	48.20	180.30	12,907.0	31.9	-951.9	8.30	4.68	9.36	-70.8	6.7
13,102.0	51.30	180.40	12,937.4	-4.0	-952.2	6.80	6.60	0.21	-76.5	6.3
13,148.0	53.30	180.30	12,965.5	-40.4	-952.4	4.35	4.35	-0.22	-79.0	5.7
13,195.0	54.00	180.30	12,993.4	-78.2	-952.6	1.49	1.49	0.00	-77.1	5.1
13,242.0	59.20	178.10	13,019.2	-117.4	-952.0	11.73	11.06	-4.68	-72.2	4.2
13,289.0	63.60	179.30	13,041.7	-158.7	-951.1	9.83	9.36	2.55	-65.7	5.6
13,335.0	63.70	179.00	13,062.1	-199.9	-950.5	0.82	0.22	-0.85	-56.2	6.1
13,382.0	68.60	178.20	13,081.1	-242.8	-949.4	10.88	10.85	-1.70	-43.6	6.9
13,430.0	68.90	178.00	13,098.4	-287.6	-947.9	0.44	0.21	-0.42	-28.2	6.4
13,477.0	75.10	179.50	13,112.9	-332.3	-947.0	13.84	13.19	3.19	-14.6	8.8
13,523.0	79.10	179.60	13,123.2	-377.1	-946.6	8.70	8.70	0.22	-5.3	8.7
13,566.0	86.60	178.10	13,134.6	-469.3	-944.7	8.43	8.28	-1.81	4.1	10.0
13,709.0	88.30	178.10	13,140.2	-562.1	-941.7	0.84	-0.84	0.00	7.8	12.5
13,803.0	87.60	179.80	13,145.2	-656.0	-940.0	2.27	1.38	1.81	10.9	13.6
13,897.0	88.90	179.20	13,149.7	-749.8	-939.1	0.98	-0.74	-0.64	13.5	13.8
13,990.0	89.10	179.40	13,152.9	-842.8	-938.0	2.38	2.37	0.22	14.8	14.3
14,084.0	91.60	180.30	13,152.3	-938.6	-937.7	2.83	2.68	0.98	12.3	14.0
14,177.0	93.30	180.70	13,148.4	-1,028.7	-938.6	1.88	1.83	0.43	6.8	12.6
14,271.0	93.80	180.60	13,142.5	-1,123.5	-939.6	0.54	0.53	-0.11	1.0	10.9
14,364.0	93.20	181.60	13,136.9	-1,216.3	-941.6	1.44	-0.65	1.29	-4.8	8.3
14,458.0	91.00	181.60	13,133.4	-1,310.2	-944.5	2.34	-2.34	0.00	-8.0	4.8
14,551.0	88.60	181.10	13,133.7	-1,403.1	-946.9	2.89	-2.68	-0.75	-7.6	1.8



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #759H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3423.0usft
Site:	Green Drake 16 Fed Com	MD Reference:	KB = 25 @ 3423.0usft
Well:	#759H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (")	Asd (azimuth) (°)	TVD (usft)	NS (usft)	EW (usft)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,645.0	88.50	181.10	13,136.1	-1,497.1	-948.7	0.11	-0.11	0.00	-3.1	-0.8
14,739.0	88.70	181.70	13,138.4	-1,591.0	-951.0	0.67	0.21	0.64	-2.7	-3.5
14,833.0	89.20	182.40	13,140.1	-1,685.0	-954.3	0.92	0.53	0.74	-0.9	-7.4
14,927.0	88.10	181.60	13,142.4	-1,778.9	-957.8	1.45	-1.17	-0.83	1.3	-11.3
15,020.0	87.60	181.80	13,145.8	-1,871.8	-960.4	0.58	-0.54	0.22	5.8	-14.7
15,114.0	87.10	181.30	13,150.2	-1,965.8	-962.9	0.75	-0.53	-0.53	11.6	-17.8
15,208.0	88.00	179.20	13,154.2	-2,059.5	-963.3	2.43	0.96	-2.23	17.0	-18.9
15,302.0	89.60	178.90	13,156.2	-2,153.5	-961.8	1.73	1.70	-0.32	20.4	-17.9
15,395.0	88.50	178.60	13,157.7	-2,246.8	-959.7	1.23	-1.18	-0.32	23.3	-16.5
15,489.0	88.10	178.60	13,158.9	-2,340.4	-957.4	1.70	1.70	0.00	25.9	-14.8
15,583.0	89.30	178.00	13,158.6	-2,434.4	-954.6	0.67	0.21	-0.84	28.9	-12.6
15,676.0	89.60	177.80	13,158.6	-2,527.3	-951.2	0.78	-0.75	-0.22	28.7	-9.8
15,769.0	90.70	177.90	13,158.4	-2,620.3	-947.6	1.19	1.18	0.11	30.5	-8.9
15,863.0	90.70	178.30	13,157.2	-2,714.2	-944.6	0.43	0.00	0.43	31.4	-4.4
15,955.0	89.60	178.60	13,157.0	-2,808.2	-942.1	1.24	-1.20	0.33	33.2	-2.5
16,048.0	91.50	178.50	13,156.1	-2,900.1	-939.8	2.02	2.02	-0.11	34.3	-0.7
16,141.0	92.00	178.40	13,152.6	-2,992.0	-937.3	1.53	1.52	-0.11	32.8	1.2
16,235.0	92.20	178.50	13,148.4	-3,085.9	-934.7	0.75	-0.74	0.11	30.7	3.1
16,328.0	91.80	178.00	13,145.1	-3,179.8	-931.9	0.88	-0.43	-0.53	29.4	5.4
16,422.0	89.30	177.30	13,144.2	-3,272.7	-928.1	2.79	-2.69	-0.75	30.6	8.6
16,515.0	88.70	177.40	13,145.8	-3,365.6	-923.8	0.65	-0.65	0.11	34.2	12.3
16,608.0	89.70	178.80	13,146.3	-3,458.5	-920.7	2.63	2.15	1.51	36.7	14.8
16,700.0	89.60	178.90	13,145.3	-3,550.5	-918.8	0.15	-0.11	0.11	37.7	16.0
16,818.0	90.50	177.90	13,144.1	-3,648.4	-915.5	0.85	-0.08	-0.83	39.2	18.5
16,911.0	92.00	180.20	13,142.1	-3,761.4	-914.0	2.95	1.61	2.47	39.2	19.5
17,005.0	90.10	178.70	13,140.4	-3,855.4	-913.1	2.58	-2.02	-1.60	39.5	19.8
17,098.0	92.80	180.50	13,138.0	-3,948.3	-912.4	3.48	2.90	1.84	39.2	19.9



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #759H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3423.0ush
Site:	Green Drake.16 Fed Com	MD Reference:	KB = 25 @ 3423.0ush
Well:	9759H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Adj (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,182.0	92.40	180.30	13,133.8	-4,042.2	-813.1	0.48	-0.43	-0.21	37.0	18.8
17,288.0	92.80	179.70	13,129.4	-4,136.1	-813.1	0.83	0.53	-0.84	34.7	18.0
17,380.0	94.10	180.60	13,123.7	-4,230.0	-813.3	1.59	1.28	0.06	31.0	17.2
17,473.0	92.00	182.90	13,118.7	-4,322.8	-818.2	3.35	-2.28	2.47	28.1	13.7
17,567.0	91.10	183.10	13,116.2	-4,416.8	-821.1	0.88	-0.96	0.21	27.6	8.2
17,661.0	92.20	180.10	13,113.5	-4,510.5	-823.7	3.40	1.17	-3.19	26.9	5.0
17,755.0	88.70	178.20	13,111.9	-4,604.3	-822.3	3.34	-2.66	-2.02	27.4	5.7
17,847.0	91.50	179.80	13,111.0	-4,698.5	-820.7	2.62	1.96	1.74	28.5	6.8
17,941.0	91.60	178.70	13,108.4	-4,789.4	-820.3	0.15	0.11	-0.11	28.0	6.6
18,034.0	91.80	178.70	13,105.8	-4,883.4	-819.8	0.00	0.00	0.00	27.4	6.5
18,128.0	93.30	181.40	13,101.8	-4,977.3	-820.7	2.56	1.81	1.81	25.4	5.0
18,222.0	91.50	182.40	13,097.9	-5,071.1	-823.8	2.10	-1.91	1.06	23.6	1.3
18,316.0	91.20	181.70	13,093.7	-5,165.1	-827.2	0.81	-0.32	-0.74	23.4	-2.7
18,410.0	80.60	181.70	13,094.2	-5,259.0	-830.0	0.84	-0.84	0.00	23.8	-6.1
18,503.0	91.00	182.90	13,092.9	-5,351.9	-833.7	1.36	0.43	1.29	23.7	-10.4
18,596.0	89.30	179.50	13,092.6	-5,444.9	-835.7	4.09	-1.83	-3.68	24.8	-13.0
18,690.0	88.50	177.40	13,096.1	-5,538.8	-833.1	3.72	-2.98	-2.23	29.2	-11.1
18,784.0	87.60	176.80	13,100.7	-5,632.6	-828.4	1.82	1.49	-0.84	35.0	-8.9
18,877.0	91.10	178.20	13,101.5	-5,725.5	-825.1	4.30	3.44	2.58	37.0	-4.3
18,971.0	88.10	178.60	13,101.3	-5,819.4	-823.3	2.22	-2.13	-0.84	38.1	-3.1
19,064.0	92.20	179.80	13,100.3	-5,912.4	-821.9	3.50	3.33	1.08	38.2	-2.2
19,157.0	93.20	179.90	13,095.9	-6,005.3	-821.5	1.12	1.08	0.32	35.0	-2.4
19,251.0	93.90	181.30	13,090.1	-6,099.1	-822.4	1.86	0.74	1.49	30.4	-4.0
19,345.0	90.40	179.70	13,086.5	-6,193.0	-823.3	4.09	-3.72	-1.70	28.0	-5.4
19,439.0	92.80	179.30	13,083.8	-6,287.0	-822.4	2.89	2.66	-0.43	26.5	-5.2
19,533.0	91.40	179.00	13,080.3	-6,380.9	-821.1	1.83	-1.60	-0.32	24.2	-4.4
19,626.0	90.50	177.70	13,078.8	-6,473.8	-818.4	1.70	-0.97	-1.40	23.8	-2.3



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #759H
Project:	Lee County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3423.0ush
Site:	Green Drake 16 Fed Com	MD Reference:	KB = 25 @ 3423.0ush
Well:	#759H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (ush)	Inc (°)	Azi (azimuth) (°)	TVD (ush)	N/S (ush)	E/W (ush)	OLeg (°/100ush)	Bulld (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)
19,720.0	87.30	178.20	13,080.8	-8,567.7	-913.4	3.76	-3.40	-1.60	26.8	2.0
19,814.0	90.10	177.20	13,082.7	-8,561.5	-908.0	3.16	2.89	1.06	30.2	0.8
19,907.0	93.60	179.90	13,079.7	-8,754.4	-905.6	4.75	3.76	2.90	28.3	8.6
20,001.0	93.70	180.10	13,073.7	-8,848.2	-905.6	0.24	0.11	0.21	23.6	6.0
20,094.0	93.60	180.00	13,067.6	-8,941.0	-905.7	0.15	0.11	-0.11	18.7	7.3
20,188.0	95.10	179.80	13,060.3	-7,034.7	-905.4	1.45	1.38	-0.43	12.6	7.1
20,282.0	92.10	180.40	13,054.4	-7,128.5	-905.4	3.30	-3.19	0.85	7.9	6.5
20,375.0	92.20	180.90	13,050.9	-7,221.4	-908.4	0.55	0.11	0.54	5.6	4.8
20,468.0	94.30	180.80	13,045.7	-7,314.3	-907.6	2.28	2.26	-0.32	1.5	3.0
20,562.0	98.40	181.20	13,038.9	-7,407.8	-909.1	2.32	2.23	0.64	-6.1	0.9
20,720.0	98.40	181.20	13,019.3	-7,564.8	-912.4	0.00	0.00	0.00	-21.7	-3.4

Measured Depth (ush)	Vertical Depth (ush)	Local Coordinates +N/S (ush)	+E/W (ush)	Comment
12,742.0	12,645.9	175.4	-880.0	KOP, MD:12742.0, TVD:12645.9, N/S:175.4, E/W:-880.0, INC:1.74
12,887.6	12,785.7	145.0	-908.5	FTP Crossing, MD:12887.6, TVD:12785.7, N/S:145.0, E/W:-908.5, INC:31.81
20,562.0	13,038.9	-7,407.8	-909.1	Last MWD Survey (MD=20562.0)
20,720.0	13,019.3	-7,564.8	-912.4	Projection to Bit (MD=20720.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)
Green Drake 16 Fed Com #759H
Plan #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: #759H

Northings: 41813.00
Eastings: 77453.00
Elevation: 3293.0
Longitude: 107° 34' 34.840 W

Adjust to Grid North
True North: 4.47°
Magnetic North: 8.47°
Magnetic Field
Source: 47183.00
Dip Angle: 53.0°
Date: 7/23/2011
Model: 10/17/2011

To convert a Magnetic Direction to a Grid Direction, Add 8.47°
To convert a Magnetic Direction to a True Direction, Add 8.47°
To convert a True Direction to a Grid Direction, Subtract 8.47°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dlog	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1250.0	0.00	0.00	1250.0	0.0	0.0	0.00	0.00	0.0	
3	1624.9	11.50	281.49	1821.0	11.5	-56.3	2.00	281.49	-4.7	
4	5157.8	11.50	281.49	8067.0	183.5	-902.7	0.00	0.00	-74.6	
5	6732.6	0.00	0.00	8638.0	193.0	-359.0	2.00	180.00	-79.2	
6	12743.6	0.00	0.00	12549.0	193.0	-359.0	0.00	0.00	-79.2	
7	13483.0	88.82	179.63	13128.4	-272.6	-356.0	12.00	179.63	384.7	
8	14195.9	88.82	179.63	13141.0	-884.3	-351.4	0.00	0.00	1091.0	TGT#1(GD 16 FC #709H)
9	14257.1	90.05	179.63	13141.6	-1045.7	-351.0	2.00	0.00	1151.7	
10	14996.3	90.05	179.63	13141.0	-1784.9	-346.2	0.00	0.00	1853.0	TGT#2(GD 16 FC #709H)
11	15038.6	90.85	179.63	13140.7	-1825.2	-346.0	2.00	0.00	1925.0	
12	15586.8	90.85	179.63	13131.0	-2475.3	-341.9	0.00	0.00	2570.0	TGT#3(GD 16 FC #709H)
13	15706.7	91.25	179.63	13130.6	-2475.3	-341.7	2.00	0.00	2589.0	
14	18434.3	91.25	179.63	13071.0	-5222.1	-924.1	0.00	0.00	5295.0	TGT#4(GD 16 FC #709H)
15	18460.4	90.73	179.63	13070.5	-5248.2	-923.9	2.00	180.00	5321.0	
16	20778.4	90.73	179.63	13041.0	-7568.0	-903.0	0.00	0.00	7620.4	PBHL(GD 16 FC #709H)

CALCULATED DETAILS

No casing data is available

WELLBORE TARGET DETAILS (NAD 83 COORDINATES)

Name	TVD	Inc	Azi	Northings	Eastings
AC TGT#1(GD 16 FC #709H)	882.9	11.5	281.5	41813.00	77453.00
Brady TGT#2(GD 16 FC #709H)	1873.0	11.5	281.5	41813.00	77453.00
PBHL(GD 16 FC #709H)	13041.0	90.7	179.6	41813.00	77453.00
TGT#1(GD 16 FC #709H)	13071.0	90.8	179.6	41813.00	77453.00
TGT#2(GD 16 FC #709H)	13141.0	90.8	179.6	41813.00	77453.00
TGT#3(GD 16 FC #709H)	13141.0	90.8	179.6	41813.00	77453.00
TGT#4(GD 16 FC #709H)	13071.0	90.8	179.6	41813.00	77453.00
PBHL(GD 16 FC #709H)	13041.0	90.7	179.6	41813.00	77453.00

