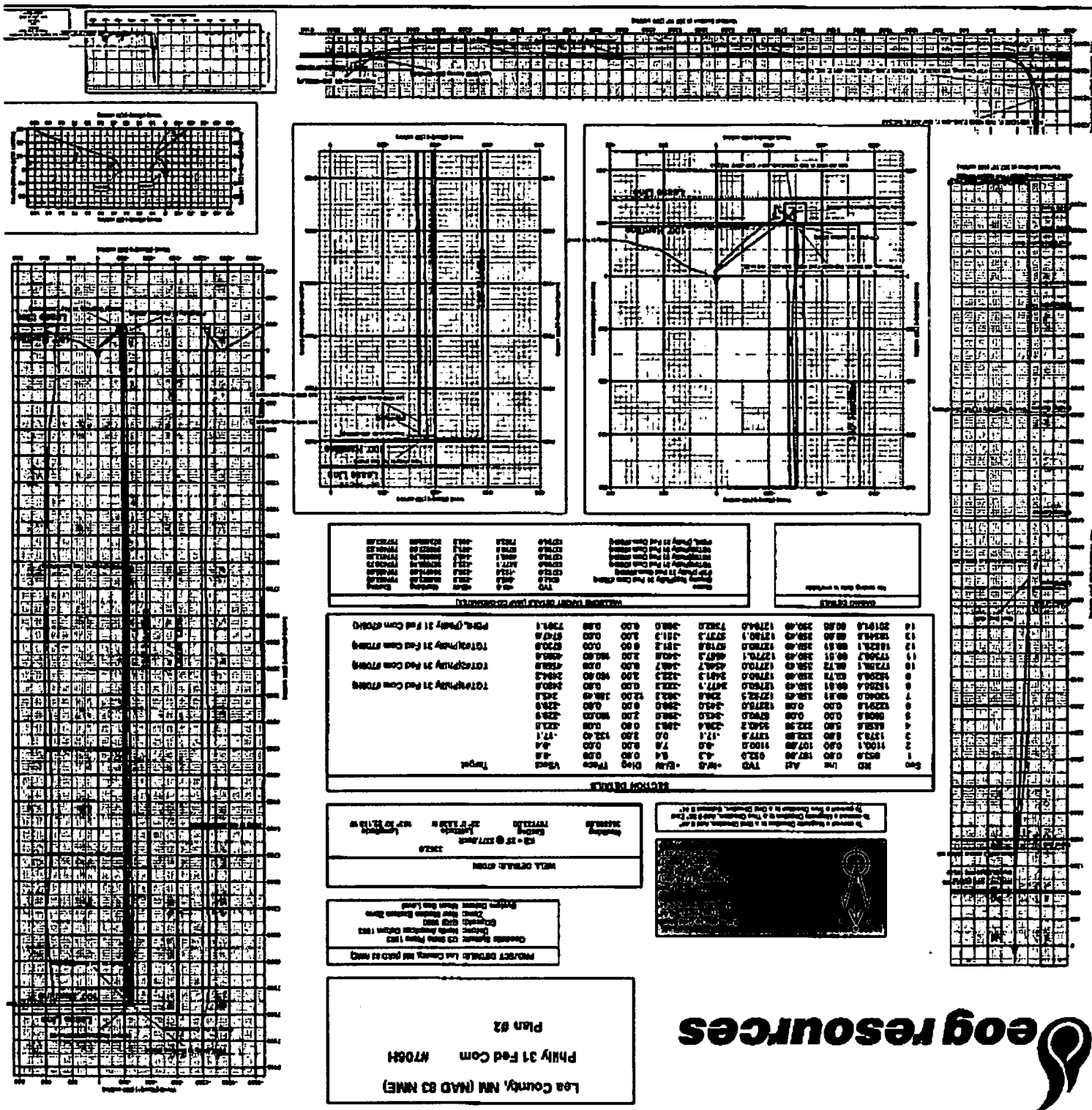




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NM OIL CONSERVATION
ARTESIA DISTRICT

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Philly 31 Fed Com

#706H

OH

Design: OH

Midland PVA

19 July, 2019



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Philly 31 Fed Com Well: #706H Wellbore: OH Design: OH		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:		Well #706H KB = 25' @ 3377.0ush KB = 25' @ 3377.0ush Grid Minimum Curvature EDM 5000.14											
Project Lea County, NM (NAD 83 NME)															
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone		System Datum: Mean Sea Level													
Site Philly 31 Fed Com															
Site Position: From: Msp Position Uncertainty: 0.0 usf		Northing: 365,084.00 usf Easting: 794,820.00 usf Grid Radius: 13-3/16"		Latitude: 32° 0' 3.819 N Longitude: 103° 30' 58.229 W Grid Convergence: 0.43°											
Well #706H															
Well Position +N/S 0.0 usf From: +E/W 0.0 usf Position Uncertainty 0.0 usf		Northing: 365,106.00 usf Easting: 797,753.00 usf Wellhead Elevation: usf		Latitude: 32° 0' 3.825 N Longitude: 103° 30' 22.168 W Ground Level: 3,352.0 usf											
Wellbore OH															
Magnetics <table border="1"> <thead> <tr> <th>Model Name</th> <th>Sample Date</th> <th>Declination (°)</th> <th>Dip Angle (°)</th> <th>Field Strength (nT)</th> </tr> </thead> <tbody> <tr> <td>IGRF2015</td> <td>9/18/2017</td> <td>8.68</td> <td>59.86</td> <td>47,786.44560615</td> </tr> </tbody> </table>						Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	IGRF2015	9/18/2017	8.68	59.86	47,786.44560615
Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)											
IGRF2015	9/18/2017	8.68	59.86	47,786.44560615											
Design OH															
Audit Notes:															
Version: 1.0		Phase: ACTUAL		Tie On Depth: 0.0											
Vertical Section:		Depth From (TVD) (usf)		Direction (°)											
		0.0		357.16											
Survey Program Date 7/19/2019															
From (usf) 232.0		To (usf) 20,208.0		Survey (Wellbore)											
				Tool Name MWD											
				Description CWSO MWD - Standard											



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lee County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0usft
Site:	PN# 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Asd (azimuth) (°)	TVD (usft)	NPS (usft)	ENW (usft)	DLeg (°/100usft)	Bulld (°/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
232.0	0.90	167.60	232.0	-1.8	0.4	0.39	0.39	0.00	0.0	0.0
319.0	0.70	153.50	319.0	-2.9	0.8	0.32	-0.23	-16.44	0.0	0.0
404.0	0.60	151.60	404.0	-3.8	1.2	0.12	-0.12	-2.00	0.0	0.0
497.0	0.60	151.60	497.0	-4.6	1.7	0.00	0.00	0.11	0.0	0.0
664.0	0.70	152.50	664.0	-6.5	2.7	0.05	0.05	0.32	0.0	0.0
778.0	0.60	135.90	778.0	-7.4	3.3	0.23	-0.11	-17.77	0.0	0.0
872.0	0.60	109.40	871.9	-7.9	4.2	0.40	0.21	-28.09	0.0	0.0
953.0	0.60	107.80	952.9	-8.3	5.4	0.13	0.12	-1.96	0.0	0.0
1,041.0	1.32	117.48	1,040.9	-9.0	6.9	0.52	0.48	11.00	-0.3	-0.1
1,135.0	2.11	160.94	1,134.9	-11.2	7.9	2.05	0.84	67.51	-1.9	0.0
1,229.0	3.78	206.51	1,228.8	-15.7	6.4	2.22	1.78	27.20	-4.4	1.8
1,323.0	6.68	217.24	1,322.4	-22.9	1.8	3.24	3.09	11.41	-7.7	3.8
1,417.0	7.30	219.61	1,415.7	-31.9	-5.4	0.73	0.66	2.52	-11.5	6.0
1,511.0	7.30	220.84	1,508.9	-40.9	-13.1	0.17	0.00	1.31	-15.3	8.1
1,604.0	7.56	222.68	1,601.1	-49.9	-21.1	0.38	0.28	1.98	-19.1	10.1
1,698.0	7.74	224.71	1,694.3	-59.0	-28.7	0.35	0.19	2.16	-23.2	12.2
1,791.0	7.91	225.76	1,788.4	-67.9	-36.7	0.24	0.18	1.13	-27.6	13.7
1,885.0	7.81	227.66	1,879.5	-76.7	-48.2	0.32	0.00	2.34	-31.8	15.6
1,979.0	8.18	227.25	1,972.6	-85.6	-57.9	0.31	0.29	-0.76	-37.0	15.9
2,073.0	8.18	226.90	2,065.8	-94.7	-67.7	0.05	0.00	-0.37	-42.4	16.5
2,166.0	8.27	227.06	2,157.7	-103.7	-77.5	0.19	0.10	1.14	-47.3	18.0
2,259.0	8.35	227.87	2,249.7	-112.7	-87.4	0.09	0.09	-0.10	-52.8	18.6
2,353.0	8.18	228.99	2,342.7	-121.8	-97.4	0.23	-0.18	-0.94	-58.4	19.5
2,447.0	8.09	224.44	2,435.8	-131.1	-106.9	0.40	-0.10	-2.71	-64.4	18.7
2,540.0	6.00	222.51	2,527.9	-140.6	-115.9	0.31	-0.10	-2.68	-70.0	19.8
2,633.0	7.56	232.70	2,620.0	-148.0	-125.1	1.55	-0.47	10.96	-70.5	29.0



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0uwt
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0uwt
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (uwt)	Inc (°)	Ad (azimuth) (°)	TVD (uwt)	N/S (uwt)	E/W (uwt)	DLag (°/100uwt)	Build (°/100uwt)	Turn (°/100uwt)	High to Plan (uwt)	Right to Plan (uwt)
2,727.0	7.03	233.78	2,713.3	-156.2	-134.7	0.58	-0.58	1.13	-73.7	30.2
2,821.0	6.42	233.78	2,806.8	-162.7	-143.5	0.85	-0.85	0.00	-78.8	30.0
2,914.0	6.07	231.74	2,899.1	-166.8	-151.6	0.44	-0.38	-2.17	-79.6	27.3
3,008.0	5.80	230.07	2,992.6	-174.9	-159.1	0.34	-0.29	-1.78	-81.9	25.1
3,101.0	5.83	228.48	3,085.1	-181.1	-168.1	0.43	-0.18	-3.88	-84.5	20.5
3,185.0	5.19	224.27	3,178.7	-187.3	-172.4	0.52	-0.47	-2.33	-86.0	18.3
3,288.0	4.48	242.55	3,271.3	-192.0	-178.5	1.81	-0.78	19.66	-75.8	44.2
3,381.0	3.40	245.20	3,364.1	-194.8	-184.3	1.18	-1.16	2.85	-71.9	46.0
3,475.0	2.70	244.00	3,458.0	-197.0	-188.8	0.75	-0.74	-1.28	-69.8	42.9
3,568.0	2.60	243.40	3,550.9	-198.8	-192.6	0.11	-0.11	-0.65	-66.8	40.8
3,661.0	2.70	241.70	3,643.8	-200.8	-198.4	0.14	0.11	-1.83	-84.1	37.2
3,755.0	2.90	241.70	3,737.7	-203.0	-200.5	0.21	0.21	0.00	-60.5	35.9
3,848.0	1.80	239.50	3,830.6	-204.8	-203.7	1.40	-1.40	-2.37	-57.5	32.8
3,942.0	1.80	179.40	3,924.8	-207.0	-204.8	1.82	0.21	-83.94	-54.1	-29.0
4,035.0	2.20	189.00	4,017.5	-210.2	-205.1	0.58	0.43	10.32	-55.4	-12.8
4,127.0	2.40	237.20	4,109.5	-213.0	-207.0	2.05	0.22	52.39	-41.6	33.3
4,221.0	3.40	254.20	4,203.3	-214.8	-211.3	1.39	1.00	18.09	-27.2	41.8
4,315.0	3.40	248.70	4,297.2	-216.7	-216.5	0.47	0.00	-7.98	-26.9	35.3
4,409.0	3.20	249.10	4,391.0	-218.7	-221.5	0.28	-0.21	2.55	-26.0	34.3
4,502.0	2.50	254.10	4,483.9	-220.2	-225.9	0.80	-0.75	5.38	-19.9	33.7
4,595.0	1.80	257.80	4,576.8	-221.1	-229.3	0.77	-0.75	3.78	-14.0	31.8
4,688.0	0.50	245.40	4,669.6	-221.5	-231.1	1.41	-1.40	-13.12	-14.2	25.9
4,781.0	0.80	100.90	4,762.8	-221.8	-230.8	1.33	0.32	-155.38	-8.2	-23.4
4,875.0	1.10	73.10	4,856.8	-221.7	-229.3	0.58	0.32	-29.57	-8.3	-22.4
4,969.0	2.60	101.90	4,950.7	-221.9	-226.4	1.83	1.60	30.84	-24.5	-10.1
5,062.0	2.90	131.00	5,043.8	-223.8	-222.5	1.52	0.32	31.29	-32.2	12.1
5,156.0	1.50	159.80	5,137.8	-226.8	-220.3	1.85	-1.49	30.43	-23.3	35.0



Midland PVA

Company:	EOG Resources - Midland	Local Coordinate Reference:	Well #706H
Project:	Lea County, NM (HAD 83 NMB)	TVD Reference:	KB = 25' @ 3377.0usft
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Ad (natural) (°)	TVD (usft)	N/S (usft)	E/W (usft)	Dip (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,250.0	1.10	164.80	5,231.5	-226.8	-219.8	0.44	-0.43	5.84	-19.0	44.7
5,344.0	0.80	141.00	5,325.5	-230.0	-218.9	0.49	-0.21	-25.43	-37.3	41.0
5,438.0	0.80	132.90	5,419.5	-231.0	-218.0	0.17	-0.11	-8.62	-45.5	43.3
5,531.0	0.90	141.70	5,512.5	-232.1	-217.1	0.18	0.11	9.46	-39.8	57.9
5,624.0	1.00	142.50	5,605.5	-233.3	-216.1	0.11	0.11	0.86	-40.5	68.0
5,716.0	1.00	144.00	5,699.5	-234.6	-215.1	0.03	0.00	1.60	-40.3	71.7
5,812.0	0.30	55.70	5,793.5	-235.1	-214.5	1.10	-0.74	-93.94	-74.6	-38.9
5,905.0	0.80	8.90	5,886.5	-234.3	-214.1	0.88	0.54	-50.32	-23.5	-81.2
5,998.0	0.50	10.30	5,979.5	-233.3	-214.0	0.32	-0.32	1.51	-26.5	-80.6
6,091.0	0.80	8.10	6,072.5	-232.4	-213.9	0.12	0.11	-4.52	-21.5	-82.3
6,185.0	0.70	5.90	6,166.5	-231.4	-213.7	0.11	0.11	-0.21	-22.2	-82.4
6,278.0	0.60	356.80	6,259.5	-230.3	-213.7	0.15	-0.11	-9.88	-10.1	-85.0
6,372.0	0.40	354.70	6,353.5	-229.5	-213.8	0.21	-0.21	-2.34	-7.7	-85.3
6,466.0	0.40	346.80	6,447.4	-228.8	-213.9	0.08	0.00	-8.40	3.5	-85.6
6,560.0	0.30	344.80	6,541.4	-228.3	-214.0	0.11	-0.11	-2.34	6.2	-85.4
6,653.0	0.40	333.20	6,634.4	-227.6	-214.2	0.13	0.11	-12.26	22.4	-82.6
6,745.0	0.30	323.30	6,726.4	-227.3	-214.5	0.13	-0.11	-10.76	35.7	-77.5
6,839.0	0.40	314.10	6,820.4	-226.9	-214.9	0.12	-0.11	-9.79	47.1	-70.9
6,932.0	0.40	307.10	6,913.4	-226.4	-215.4	0.05	0.00	-7.53	54.7	-64.8
7,026.0	0.40	305.70	7,007.4	-226.0	-215.9	0.01	0.00	-1.49	55.6	-63.3
7,119.0	0.40	306.60	7,100.4	-225.7	-216.4	0.02	0.00	3.12	51.7	-68.0
7,213.0	0.40	304.10	7,194.4	-225.3	-217.0	0.03	0.00	-4.79	56.0	-61.8
7,306.0	0.40	302.00	7,287.4	-224.9	-217.5	0.02	0.00	-2.28	57.6	-59.7
7,400.0	0.30	309.90	7,381.4	-224.6	-218.0	0.12	-0.11	8.40	48.3	-67.0
7,493.0	0.30	286.80	7,474.4	-224.4	-218.4	0.13	0.00	-24.84	70.2	-42.8
7,587.0	0.30	284.60	7,568.4	-224.2	-218.9	0.01	0.00	-2.34	71.3	-40.1
7,681.0	0.40	248.70	7,662.4	-224.3	-219.4	0.25	0.11	-38.18	80.8	9.2



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0usft
Site:	Paddy 31 Fed Com	MO Reference:	KB = 25' @ 3377.0usft
Well:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MO (usft)	Inc (°)	Alt (eodmuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
7,775.0	0.70	239.80	7,756.4	-224.7	-220.2	0.33	0.32	-9.47	77.5	21.8	
7,868.0	1.00	227.90	7,849.4	-223.5	-221.3	0.37	0.32	-12.60	70.0	37.0	
7,960.0	1.10	228.50	7,941.4	-226.6	-222.6	0.11	0.11	0.65	68.7	36.2	
8,054.0	1.10	211.30	8,035.4	-228.0	-223.7	0.35	0.00	-18.30	53.1	54.7	
8,147.0	1.30	207.20	8,128.4	-226.7	-224.6	0.23	0.22	-4.41	47.1	50.3	
8,240.0	1.50	187.50	8,221.3	-231.9	-225.3	0.58	0.22	-21.18	22.5	70.4	
8,333.0	1.50	189.00	8,314.3	-234.3	-225.6	0.04	0.00	1.81	21.9	69.8	
8,427.0	1.80	178.10	8,408.3	-237.0	-225.8	0.46	0.32	-11.60	5.8	72.4	
8,520.0	1.90	171.00	8,501.2	-239.9	-225.5	0.27	0.11	-7.83	-6.3	72.4	
8,613.0	2.00	187.80	8,594.2	-243.0	-224.8	0.16	0.11	-3.44	-13.5	71.9	
8,707.0	1.90	170.80	8,688.1	-246.2	-224.3	0.15	-0.11	3.19	-12.9	72.6	
8,800.0	1.80	171.40	8,781.1	-248.2	-223.8	0.02	0.00	0.65	-15.3	72.7	
8,894.0	2.00	170.70	8,875.0	-252.4	-223.3	0.11	0.11	-0.74	-19.3	72.5	
8,987.0	2.00	175.30	8,967.9	-255.6	-222.9	0.17	0.00	4.95	-16.7	73.9	
9,080.0	1.80	180.20	9,060.9	-258.7	-222.8	0.28	-0.22	5.27	-13.4	75.2	
9,174.0	1.70	165.80	9,154.8	-261.5	-223.0	0.21	-0.11	5.96	-8.9	76.3	
9,267.0	1.50	190.40	9,247.8	-264.1	-223.3	0.26	-0.22	4.95	-5.3	76.9	
9,361.0	1.40	194.60	9,341.8	-266.4	-223.8	0.16	-0.11	4.47	-2.1	77.2	
9,454.0	1.00	291.10	9,434.8	-267.2	-224.9	1.95	-0.43	103.76	76.2	-5.8	
9,547.0	1.10	307.60	9,527.8	-268.4	-226.3	0.34	0.11	17.74	69.8	-28.8	
9,641.0	1.00	298.40	9,621.7	-265.8	-227.8	0.21	-0.11	-9.79	71.5	-15.4	
9,735.0	1.10	327.60	9,715.7	-264.3	-229.0	0.57	0.11	31.06	53.3	-47.9	
9,829.0	1.20	321.00	9,809.7	-262.6	-230.1	0.18	0.11	-7.02	56.6	-41.6	
9,923.0	2.10	339.70	9,903.7	-260.4	-231.3	1.10	0.98	19.89	37.6	-57.2	
10,016.0	2.00	342.70	9,996.8	-257.3	-232.4	0.16	-0.11	3.23	31.2	-59.0	
10,110.0	2.40	351.40	10,090.5	-253.8	-233.2	0.55	0.43	9.26	18.3	-62.8	
10,204.0	2.50	334.70	10,184.4	-250.0	-234.3	0.76	0.11	-17.77	31.7	-55.5	



Midland PVA

Company:

EOG Resources - Midland

Project:

Lea County, NM (NAD 83 NME)

Site:

PHBy 31 Fed Com

Well:

8706H

Wellbore:

OH

Design:

OH

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well 8706H

KB = 25' @ 3377.0usd

KB = 25' @ 3377.0usd

Grid

Minimum Curvature

EDM 5000.14

Survey

MD (usd)	Inc (")	Asl (azimuth) (")	TVD (usd)	NS (usd)	EAN (usd)	DLog ("/100usd)	Build ("/100usd)	Turn ("/100usd)	High to Plan (")	Right to Plan (")
10,268.0	2.00	324.00	10,278.4	-248.8	-238.2	0.89	-0.53	-11.38	37.8	-49.0
10,392.0	1.80	309.20	10,372.3	-244.5	-238.3	0.54	-0.11	-15.74	45.9	-38.1
10,486.0	1.70	288.30	10,466.3	-243.0	-240.9	0.73	-0.21	-22.23	53.6	-19.8
10,579.0	1.80	279.90	10,559.2	-242.3	-243.7	0.36	0.22	-9.03	53.0	-12.0
10,673.0	1.30	289.70	10,653.2	-241.7	-248.2	0.70	-0.84	10.43	47.8	-20.5
10,766.0	1.80	280.40	10,746.2	-241.1	-248.7	0.60	0.54	-10.00	47.8	-12.8
10,860.0	1.90	283.20	10,840.1	-240.5	-251.6	0.14	0.11	2.98	44.1	-15.0
10,953.0	1.10	286.80	10,933.1	-239.9	-254.0	0.87	-0.88	3.87	40.8	-17.8
11,047.0	0.80	289.60	11,027.1	-239.4	-255.6	0.22	-0.21	2.98	38.1	-19.6
11,140.0	1.30	294.40	11,120.0	-238.7	-257.2	0.44	0.43	5.16	34.5	-22.6
11,234.0	1.30	278.60	11,214.0	-238.1	-259.2	0.43	0.60	-16.84	37.7	-11.3
11,327.0	1.70	287.50	11,307.0	-237.6	-261.6	0.53	0.43	11.72	32.5	-18.0
11,421.0	2.00	334.80	11,400.9	-235.7	-263.6	1.61	0.32	50.32	6.2	-35.1
11,515.0	3.60	324.80	11,494.8	-231.8	-268.0	1.77	1.70	-10.64	7.6	-33.8
11,609.0	3.80	321.20	11,588.8	-228.9	-269.7	0.33	0.21	-3.83	3.7	-33.4
11,702.0	4.00	316.00	11,681.4	-222.2	-273.9	0.44	0.22	-5.59	0.4	-33.2
11,796.0	2.80	324.10	11,775.3	-217.9	-277.5	1.28	-1.17	8.82	-9.9	-32.5
11,890.0	2.50	310.20	11,869.1	-214.7	-280.5	0.81	-0.43	-14.78	-6.2	-34.5
11,983.0	2.20	304.80	11,962.1	-212.3	-283.5	0.40	-0.32	-5.81	-6.7	-35.1
12,114.0	2.50	278.10	12,093.0	-210.5	-288.4	0.86	0.23	-20.38	4.8	-35.5
12,207.0	2.70	277.20	12,185.9	-209.9	-292.6	0.22	0.22	-0.97	1.0	-35.5
12,301.0	2.10	286.90	12,278.8	-208.2	-296.4	0.77	-0.64	10.32	-6.9	-34.7
12,393.0	11.80	348.50	12,371.1	-198.4	-299.9	11.91	10.54	66.96	-34.7	-5.0
12,487.0	20.20	354.00	12,461.3	-173.8	-303.5	9.07	8.94	5.85	-30.8	2.2
12,580.0	26.30	358.20	12,546.8	-137.3	-306.6	6.62	6.56	2.37	-19.0	6.8
12,673.0	28.00	358.50	12,629.5	-94.9	-308.5	2.15	1.83	2.47	4.8	9.4
12,767.0	45.10	6.20	12,704.8	-39.3	-305.5	18.80	18.19	8.19	31.3	3.9



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0ush
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0ush
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (ust)	Inc (°)	Asi (azimuth) (°)	TVD (ust)	NPS (ust)	EW (ust)	DLog (°/100ust)	Build (°/100ust)	Turn (°/100ust)	High to Plan (ust)	Right to Plan (ust)
12,814.0	62.50	9.50	12,732.4	-1.9	-300.2	37.44	37.02	7.02	38.4	-2.8
12,839.0	70.60	8.90	12,742.4	20.8	-297.0	33.77	32.40	-10.40	35.4	-5.3
12,861.0	77.80	5.10	12,748.4	41.8	-294.7	33.66	32.73	-8.18	32.8	-7.1
12,954.0	89.60	3.10	12,758.5	133.9	-288.2	12.87	12.89	-2.15	15.8	-13.5
13,048.0	90.80	0.10	12,758.2	227.8	-285.5	3.44	1.28	-3.19	5.8	-18.7
13,142.0	91.90	359.30	12,758.0	321.8	-288.0	1.45	1.17	-0.85	3.2	-17.0
13,236.0	90.30	358.60	12,754.2	415.8	-287.8	1.88	-1.70	-0.74	1.1	-16.1
13,330.0	90.10	357.80	12,753.9	509.7	-290.8	0.77	-0.21	-0.74	0.5	-14.1
13,424.0	92.10	358.70	12,752.1	603.7	-293.4	2.29	2.13	0.85	-1.6	-12.1
13,518.0	89.80	357.80	12,750.5	697.6	-296.3	2.63	-2.45	-0.98	-3.5	-10.1
13,611.0	89.80	357.90	12,750.8	790.5	-299.8	0.11	0.00	0.11	-3.5	-7.5
13,704.0	90.10	358.80	12,750.9	883.5	-302.5	1.02	0.32	0.97	-3.7	-5.8
13,798.0	90.70	358.70	12,750.3	977.5	-304.5	0.85	0.64	-0.11	-4.7	-4.4
13,891.0	90.70	358.20	12,749.1	1,070.4	-307.0	0.54	0.00	-0.54	-6.2	-2.7
13,985.0	91.80	358.90	12,747.1	1,164.4	-309.4	1.39	1.17	0.74	-8.5	-1.2
14,079.0	90.20	358.80	12,745.4	1,258.3	-311.2	1.70	-1.70	0.00	-10.5	-0.2
14,174.0	90.00	0.60	12,745.3	1,352.3	-311.6	1.80	-0.21	1.79	-11.0	-0.8
14,267.0	91.40	1.40	12,744.1	1,448.3	-310.0	1.73	1.51	0.88	-12.4	-3.1
14,361.0	88.80	359.80	12,744.0	1,540.3	-308.9	3.19	-2.77	-1.60	-12.9	-5.0
14,454.0	88.00	359.50	12,748.8	1,633.2	-309.4	0.88	-0.86	-0.43	-10.6	-5.3
14,547.0	88.50	359.40	12,749.4	1,728.2	-310.3	0.55	0.54	-0.11	-8.1	-3.3
14,641.0	88.30	358.70	12,752.0	1,820.2	-311.9	0.77	-0.21	-0.74	-5.8	-4.5
14,734.0	88.50	357.80	12,754.8	1,913.1	-314.6	0.89	0.22	-0.86	-3.5	-2.8
14,827.0	90.20	357.20	12,755.7	2,006.0	-318.6	1.88	1.83	-0.75	-2.7	0.5
14,920.0	91.50	358.00	12,754.3	2,098.8	-324.1	1.90	1.40	-1.29	-4.4	3.2
15,014.0	90.80	359.10	12,752.4	2,192.7	-328.1	3.38	-0.74	3.30	-6.8	8.4
15,108.0	91.20	359.80	12,750.8	2,286.7	-329.0	0.85	0.43	0.85	-8.8	8.4



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0usft
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc. (°)	Asd (azimuth) (°)	TVD (usft)	NPS (usft)	ENW (usft)	OLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,201.0	91.10	359.90	12,748.9	2,378.8	-329.1	0.11	-0.11	0.00	-10.8	7.7
15,294.0	89.70	0.10	12,748.3	2,472.8	-329.1	1.52	-1.51	0.22	-11.7	8.8
15,388.0	88.70	0.10	12,749.6	2,566.6	-328.9	1.08	-1.08	0.00	-10.9	5.9
15,482.0	88.40	359.10	12,751.9	2,660.6	-329.8	1.11	-0.32	-1.06	-8.9	5.7
15,575.0	89.50	0.60	12,753.7	2,753.8	-329.8	2.00	1.18	1.81	-7.7	5.1
15,668.0	90.00	0.40	12,754.1	2,848.8	-329.0	0.58	0.54	-0.22	-7.7	3.5
15,762.0	91.80	0.50	12,752.7	2,940.8	-328.3	1.71	1.70	0.11	-8.5	1.9
15,855.0	92.80	0.80	12,749.3	3,033.5	-327.2	1.12	1.08	0.32	-13.3	0.0
15,949.0	92.90	1.10	12,744.8	3,127.4	-325.7	0.45	0.32	0.32	-18.3	-2.4
16,043.0	90.60	1.00	12,742.0	3,221.3	-324.0	2.45	-2.45	-0.11	-21.6	-4.9
16,137.0	89.20	0.60	12,742.1	3,315.3	-322.7	1.55	-1.49	-0.43	-21.9	-7.1
16,231.0	88.40	0.30	12,744.1	3,409.3	-321.9	0.91	-0.85	-0.32	-20.4	-8.7
16,324.0	90.20	0.70	12,745.2	3,502.2	-321.1	1.98	1.94	0.43	-19.7	-10.3
16,418.0	91.80	1.30	12,743.8	3,598.2	-319.5	1.82	1.70	0.84	-21.8	-12.8
16,512.0	88.70	0.90	12,743.2	3,690.2	-317.7	3.33	-3.30	-0.43	-22.7	-15.4
16,605.0	90.70	1.40	12,743.7	3,783.2	-315.8	2.22	2.15	0.84	-22.6	-18.1
16,698.0	90.00	359.30	12,743.1	3,876.2	-315.2	2.38	-0.75	-2.26	-23.7	-19.5
16,791.0	88.70	358.00	12,744.1	3,969.1	-317.4	1.98	-1.40	-1.40	-23.1	-18.2
16,884.0	91.40	357.40	12,744.1	4,062.0	-321.1	2.97	2.90	-0.85	-23.6	-15.2
16,978.0	88.60	357.40	12,744.1	4,155.9	-325.4	2.98	-2.98	0.00	-24.0	-11.8
17,071.0	94.50	357.20	12,741.8	4,248.7	-329.8	6.35	6.34	-0.22	-27.0	-8.3
17,165.0	94.10	358.50	12,734.5	4,342.4	-333.3	1.44	-0.43	1.38	-34.5	-5.8
17,259.0	91.70	358.60	12,729.8	4,436.3	-335.5	2.57	-2.55	0.32	-38.7	-4.2
17,352.0	90.80	0.30	12,727.9	4,529.2	-336.2	2.00	-1.19	1.81	-42.0	-4.3
17,446.0	87.80	1.00	12,729.2	4,623.2	-335.2	3.07	-2.98	0.74	-41.4	-6.2
17,540.0	88.40	2.00	12,732.3	4,717.1	-332.7	1.24	0.84	1.08	-39.1	-8.5
17,634.0	89.00	2.70	12,734.4	4,811.0	-328.9	0.98	0.64	0.74	-37.8	-14.2



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0ush
Site:	Philly 31 Fed Com	MO Reference:	KB = 25' @ 3377.0ush
Well:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MO (ush)	Inc (°)	Asd (edimush) (°)	TVD (ush)	N/S (ush)	E/W (ush)	D/Lag (°/100ush)	Build (°/100ush)	Turn (°/100ush)	High to Plan (ush)	Right to Plan (ush)
17,728.0	89.60	359.30	12,733.8	4,905.0	-327.2	3.87	0.84	-3.62	-37.4	-16.7
17,821.0	90.10	359.50	12,735.8	4,998.0	-328.2	0.58	0.54	0.22	-38.0	-16.5
17,914.0	89.00	359.30	12,738.8	5,091.0	-329.2	1.20	-1.18	-0.22	-38.1	-16.4
18,008.0	88.80	0.00	12,737.6	5,185.0	-329.8	1.13	0.85	0.74	-37.9	-16.7
18,102.0	89.70	359.70	12,738.0	5,279.0	-330.0	0.34	-0.11	-0.32	-38.3	-17.3
18,196.0	91.00	0.70	12,737.4	5,373.0	-329.7	1.74	1.38	1.08	-39.6	-18.4
18,289.0	90.00	0.20	12,738.8	5,465.9	-328.9	1.20	-1.08	-0.54	-41.3	-20.0
18,383.0	88.80	0.30	12,737.8	5,559.9	-328.5	1.28	-1.28	0.11	-41.1	-21.2
18,476.0	90.70	1.10	12,738.0	5,652.9	-327.4	2.22	2.04	0.86	-41.5	-23.2
18,570.0	90.80	2.10	12,738.9	5,746.9	-324.8	1.07	-0.11	1.08	-43.2	-26.8
18,664.0	89.50	0.10	12,736.8	5,840.9	-323.0	2.43	-1.17	-2.13	-43.5	-29.3
18,757.0	90.20	0.20	12,737.1	5,933.9	-322.7	0.78	0.75	0.11	-43.5	-30.4
18,851.0	89.90	358.80	12,737.0	6,027.9	-323.5	1.52	-0.32	-1.49	-43.8	-30.4
18,945.0	93.20	359.30	12,734.4	6,121.8	-325.1	3.55	3.51	0.53	-46.5	-29.7
19,038.0	90.20	357.40	12,731.7	6,214.7	-327.8	3.82	-3.23	-2.04	-49.8	-27.6
19,131.0	87.80	358.30	12,733.3	6,307.6	-331.3	2.78	-2.58	0.97	-48.1	-25.2
19,225.0	92.40	359.70	12,733.1	6,401.6	-332.9	5.12	4.89	1.49	-48.5	-24.4
19,318.0	89.80	359.50	12,731.4	6,494.5	-333.6	2.80	-2.80	-0.22	-50.5	-24.5
19,412.0	88.30	358.10	12,732.9	6,588.5	-335.5	2.18	-1.60	-1.48	-49.2	-23.4
19,505.0	92.90	359.80	12,731.9	6,681.5	-337.4	5.20	4.95	1.81	-50.4	-22.4
19,599.0	88.80	359.70	12,732.2	6,775.4	-338.0	8.49	-8.49	0.11	-50.4	-22.7
19,692.0	90.20	0.30	12,734.6	6,868.4	-338.0	3.71	3.66	0.65	-48.2	-23.5
19,786.0	91.60	358.40	12,733.1	6,962.3	-339.0	2.51	1.49	-2.02	-49.9	-23.2
19,879.0	90.70	359.30	12,731.3	7,055.3	-340.8	1.37	-0.97	0.97	-51.9	-22.2
19,972.0	92.60	1.10	12,728.8	7,148.2	-340.6	2.81	2.04	1.94	-54.8	-23.4
20,066.0	92.50	1.10	12,724.4	7,242.1	-338.8	0.11	-0.11	0.00	-59.2	-28.0
20,149.0	91.40	359.80	12,721.8	7,325.1	-338.1	2.05	-1.33	-1.57	-62.3	-27.4



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
Project:	Lee County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3377.0usft
Site:	Philly 31 Fed Com	MD Reference:	KB = 25' @ 3377.0usft
Well:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Asi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
20,206.0	91.40	359.80	12,720.2	7,382.1	-338.3	0.00	0.00	0.00	-63.8	-27.7

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,307.0	12,285.8	-209.1	-298.6	KOP, MD:12307.0', TVD:12285.8', N/S:-209.1', E/W:-298.6', INC:2.43
12,425.9	12,403.1	-192.0	-301.2	FTP Crossing, MD:12425.9', TVD:12403.1', N/S:-192.0', E/W:-301.2', INC:14.72
20,149.0	12,721.6	7,325.1	-338.1	Last MWD Survey (MD=20149.0')
20,206.0	12,720.2	7,382.1	-338.3	Projection to Bit (MD=20206.0')

Checked By: _____	Approved By: _____	Date: _____
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