



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Getty 5 Fed Com

#506H

OH

Design: OH

Midland PVA

02 September, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #506H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3469.0usft
Site:	Getty 5 Fed Com	MD Reference:	KB = 25 @ 3469.0usft
Well:	#506H	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	Getty 5 Fed Com		
Site Position:		Northing:	420,163.00 usft
From:	Map	Easting:	772,092.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 10.475 N
		Longitude:	103° 35' 15.736 W
		Grid Convergence:	0.40 °

Well	#506H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 9' 10.978 N
		Longitude:	103° 35' 30.575 W
		Ground Level:	3,444.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	12/13/2018	6.80
			Dip Angle
			59.97
			Field Strength
			47,740.57544911

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			351.35

Survey Program	Date 9/2/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		Description
177.0	18,626.0	Leam MWD (OH)	MWD
			OWSG MWD - Standard



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Well:	#506H	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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
177.0	1.32	243.54	177.0	-0.9	-1.8	0.75	0.75	0.00	-2.0	0.0	
238.0	1.67	236.43	238.0	-1.7	-3.2	0.65	0.57	-11.66	-3.6	-0.3	
326.0	2.02	219.81	325.9	-3.6	-5.3	0.72	0.40	-18.89	-6.1	-1.7	
417.0	2.02	223.68	416.9	-6.0	-7.4	0.15	0.00	4.25	-9.4	-1.2	
504.0	1.85	218.41	503.8	-8.2	-9.3	0.28	-0.20	-6.06	-12.2	-2.2	
593.0	2.46	221.75	592.7	-10.8	-11.5	0.70	0.69	3.75	-15.7	-1.4	
680.0	2.64	219.02	679.7	-13.7	-14.0	0.25	0.21	-3.14	-19.5	-2.2	
778.0	2.81	230.71	777.6	-17.0	-17.3	0.59	0.17	11.93	-24.1	2.2	
872.0	2.73	236.34	871.4	-19.7	-20.9	0.30	-0.09	5.99	-28.3	4.8	
966.0	2.90	238.36	965.3	-22.2	-24.8	0.21	0.18	2.15	-32.8	5.9	
1,081.0	2.64	228.08	1,060.2	-24.9	-28.5	0.59	-0.27	-10.82	-37.8	-0.5	
1,117.0	2.37	219.29	1,116.2	-26.7	-30.2	0.84	-0.48	-15.70	-39.7	-6.5	
1,252.0	2.20	215.77	1,251.1	-30.9	-33.5	0.16	-0.13	-2.61	-44.3	-8.8	
1,345.0	2.90	244.86	1,345.0	-33.4	-36.7	1.54	0.74	30.95	-43.8	15.6	
1,441.0	5.01	260.33	1,439.7	-35.1	-42.9	2.47	2.22	16.28	-38.0	27.2	
1,535.0	6.68	262.62	1,533.2	-36.5	-52.4	1.79	1.78	2.44	-37.0	28.3	
1,629.0	9.15	264.11	1,626.3	-38.0	-65.3	2.64	2.63	1.59	-36.6	28.3	
1,723.0	10.46	265.61	1,719.0	-39.4	-81.2	1.42	1.39	1.60	-36.3	27.7	
1,817.0	11.08	264.90	1,811.3	-40.9	-99.7	0.67	0.66	-0.76	-36.6	25.4	
1,912.0	10.82	264.90	1,904.6	-42.5	-116.7	0.27	-0.27	0.00	-36.9	23.7	
2,006.0	10.55	264.46	1,997.0	-44.1	-134.0	0.30	-0.29	-0.47	-37.0	21.8	
2,101.0	10.38	265.78	2,090.4	-45.5	-151.2	0.31	-0.18	1.39	-36.0	20.8	
2,195.0	10.11	266.48	2,182.9	-46.7	-167.9	0.32	-0.29	0.74	-34.9	19.1	
2,289.0	9.85	268.24	2,275.5	-47.4	-184.2	0.43	-0.28	1.87	-33.2	17.7	
2,384.0	9.50	269.82	2,369.1	-47.7	-200.1	0.46	-0.37	1.66	-31.1	15.5	
2,478.0	11.17	269.65	2,461.6	-47.8	-217.0	1.78	1.78	-0.18	-30.6	12.2	



Midland PVA

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Site:	Getty 5 Fed Com	MD Reference:	KB = 25 @ 3469.0usft
Well:	#506H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
2,573.0	10.99	270.79	2,554.8	-47.7	-235.3	0.30	-0.19	1.20	-31.2	9.5
2,667.0	10.64	271.05	2,647.1	-47.4	-252.9	0.38	-0.37	0.28	-31.5	6.1
2,761.0	10.29	271.85	2,739.6	-47.0	-270.0	0.40	-0.37	0.85	-31.2	2.8
2,855.0	9.85	270.70	2,832.1	-46.6	-286.4	0.51	-0.47	-1.22	-30.4	-1.5
2,950.0	10.20	267.71	2,925.7	-46.9	-302.9	0.66	0.37	-3.15	-29.2	-6.1
3,044.0	11.61	261.12	3,018.0	-48.7	-320.6	2.00	1.50	-7.01	-28.4	-10.8
3,139.0	11.08	261.74	3,111.1	-51.4	-339.1	0.57	-0.56	0.65	-29.4	-11.2
3,233.0	10.55	264.11	3,203.4	-53.6	-356.6	0.74	-0.56	2.52	-29.9	-11.1
3,328.0	10.02	263.41	3,296.9	-55.5	-373.4	0.57	-0.56	-0.74	-28.9	-12.8
3,422.0	9.50	264.11	3,389.6	-57.2	-389.3	0.57	-0.55	0.74	-27.4	-13.9
3,516.0	9.50	260.86	3,482.3	-59.2	-404.6	0.57	0.00	-3.46	-24.4	-16.3
3,610.0	11.61	256.38	3,574.7	-62.7	-421.5	2.41	2.24	-4.77	-22.7	-17.8
3,705.0	11.17	257.96	3,667.8	-66.9	-439.8	0.57	-0.46	1.66	-24.1	-16.5
3,799.0	10.02	257.96	3,760.2	-70.5	-456.7	1.22	-1.22	0.00	-23.7	-16.1
3,893.0	9.85	254.71	3,852.8	-74.3	-472.4	0.62	-0.18	-3.46	-21.4	-16.5
3,987.0	11.08	250.22	3,945.2	-79.5	-488.7	1.57	1.31	-4.78	-19.7	-15.9
4,081.0	10.55	250.75	4,037.6	-85.4	-505.3	0.57	-0.56	0.56	-20.0	-13.0
4,175.0	10.02	253.04	4,130.1	-90.6	-521.3	0.71	-0.56	2.44	-19.7	-10.0
4,269.0	9.67	251.28	4,222.7	-95.5	-536.6	0.49	-0.37	-1.87	-18.0	-8.3
4,364.0	10.64	250.22	4,316.2	-101.0	-552.4	1.04	1.02	-1.12	-17.0	-6.0
4,457.0	9.85	247.94	4,407.7	-108.9	-567.8	0.95	-0.85	-2.45	-16.1	-3.6
4,552.0	10.82	250.05	4,501.2	-113.0	-583.7	1.10	1.02	2.22	-15.7	0.2
4,646.0	11.78	251.54	4,593.3	-119.1	-601.1	1.07	1.02	1.59	-16.6	3.2
4,740.0	10.82	247.15	4,685.5	-125.5	-618.4	1.37	-1.02	-4.67	-18.0	4.9
4,835.0	9.94	245.57	4,779.0	-132.4	-634.0	0.97	-0.93	-1.66	-17.9	8.4
4,929.0	9.58	246.62	4,871.6	-138.8	-648.6	0.43	-0.38	1.12	-16.4	12.7
5,107.0	8.53	246.62	5,047.4	-150.0	-674.3	0.59	-0.59	0.00	-11.8	20.1



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
5,201.0	10.02	260.07	5,140.2	-154.1	-688.8	2.79	1.59	14.31	-4.1	23.6
5,295.0	12.13	267.10	5,232.4	-156.0	-706.7	2.66	2.24	7.48	-1.8	22.5
5,389.0	12.49	267.36	5,324.2	-157.0	-726.7	0.39	0.38	0.28	-4.3	20.1
5,483.0	12.49	267.36	5,416.0	-158.0	-747.0	0.00	0.00	0.00	-7.2	17.6
5,578.0	12.05	266.84	5,508.8	-159.0	-767.2	0.48	-0.46	-0.55	-9.9	15.1
5,672.0	11.61	265.17	5,600.8	-160.3	-786.4	0.59	-0.47	-1.78	-12.1	12.8
5,767.0	11.70	264.81	5,693.9	-162.0	-805.5	0.12	0.09	-0.38	-13.7	10.9
5,861.0	11.70	264.55	5,785.9	-163.8	-824.5	0.06	0.00	-0.28	-15.2	9.2
5,955.0	11.34	264.11	5,878.0	-165.6	-843.2	0.39	-0.38	-0.47	-16.5	7.5
6,049.0	10.73	261.30	5,970.3	-167.9	-861.0	0.86	-0.65	-2.99	-17.2	5.7
6,144.0	9.76	260.86	6,063.8	-170.5	-877.7	1.02	-1.02	-0.46	-16.3	5.0
6,238.0	11.61	265.61	6,156.2	-172.5	-895.0	2.18	1.97	5.05	-15.7	5.0
6,332.0	11.96	267.01	6,248.2	-173.7	-914.2	0.48	0.37	1.49	-17.4	3.2
6,521.0	11.52	267.28	6,433.2	-175.6	-952.6	0.23	-0.23	0.14	-20.7	-1.5
6,616.0	11.43	265.43	6,526.3	-176.8	-971.5	0.40	-0.09	-1.95	-21.9	-4.4
6,710.0	11.26	264.81	6,618.5	-178.4	-989.9	0.22	-0.18	-0.66	-22.8	-6.4
6,804.0	9.76	264.64	6,710.9	-180.0	-1,007.0	1.60	-1.60	-0.18	-22.3	-8.1
6,899.0	8.53	264.81	6,804.7	-181.4	-1,022.0	1.30	-1.29	0.18	-19.6	-9.8
6,992.0	7.12	260.68	6,896.8	-182.9	-1,034.5	1.63	-1.52	-4.44	-14.0	-12.1
7,087.0	5.98	259.01	6,991.2	-184.8	-1,045.2	1.22	-1.20	-1.76	-6.6	-12.5
7,181.0	5.10	258.84	7,084.8	-186.6	-1,054.1	0.94	-0.94	-0.18	1.1	-12.4
7,275.0	3.69	259.45	7,178.5	-187.9	-1,061.2	1.50	-1.50	0.65	7.5	-12.4
7,369.0	1.67	222.19	7,272.4	-189.5	-1,065.1	2.73	-2.15	-39.64	18.2	-0.8
7,464.0	1.85	214.98	7,367.3	-191.8	-1,066.9	0.30	0.19	-7.59	20.8	6.7
7,558.0	1.85	214.19	7,461.3	-194.3	-1,068.6	0.03	0.00	-0.84	20.8	10.1
7,652.0	1.67	215.07	7,555.2	-196.7	-1,070.3	0.19	-0.19	0.94	19.0	10.8
7,747.0	1.67	217.18	7,650.2	-198.9	-1,071.9	0.06	0.00	2.22	16.6	10.1



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Site: Getty 5 Fed Com			MD Reference:			KB = 25 @ 3469.0usft					
Well: #506H			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)	
7,841.0	1.67	215.33	7,744.2	-201.1	-1,073.5	0.06	0.00	-1.97	13.5	10.6	
7,935.0	1.76	212.61	7,838.1	-203.4	-1,075.1	0.13	0.10	-2.89	10.2	11.2	
8,030.0	1.67	209.36	7,933.1	-205.9	-1,076.5	0.14	-0.09	-3.42	6.7	11.7	
8,124.0	1.41	206.10	8,027.0	-208.1	-1,077.7	0.29	-0.28	-3.47	3.5	12.0	
8,218.0	1.49	203.91	8,121.0	-210.3	-1,078.7	0.10	0.09	-2.33	0.7	12.0	
8,312.0	1.58	213.49	8,215.0	-212.5	-1,079.9	0.29	0.10	10.19	0.2	12.0	
8,407.0	1.93	215.07	8,309.9	-214.9	-1,081.6	0.37	0.37	1.66	-2.4	12.0	
8,501.0	1.93	208.39	8,403.9	-217.5	-1,083.2	0.24	0.00	-7.11	-6.9	11.4	
8,595.0	1.67	209.27	8,497.8	-220.1	-1,084.7	0.28	-0.28	0.94	-9.7	11.6	
8,689.0	1.85	198.63	8,591.8	-222.8	-1,085.8	0.40	0.19	-11.32	-14.5	9.3	
8,783.0	1.67	197.58	8,685.8	-225.5	-1,086.7	0.19	-0.19	-1.12	-17.6	9.0	
8,878.0	1.58	200.83	8,780.7	-228.1	-1,087.6	0.14	-0.09	3.42	-19.8	10.1	
8,972.0	1.58	202.41	8,874.7	-230.5	-1,088.6	0.05	0.00	1.68	-22.1	10.7	
9,066.0	1.58	209.44	8,968.6	-232.8	-1,089.7	0.21	0.00	7.48	-23.2	13.4	
9,160.0	1.41	207.77	9,062.6	-234.9	-1,090.9	0.19	-0.18	-1.78	-26.0	12.7	
9,254.0	1.41	215.60	9,156.6	-236.9	-1,092.1	0.20	0.00	8.33	-26.3	16.3	
9,348.0	0.35	212.08	9,250.6	-238.1	-1,092.9	1.13	-1.13	-3.74	-28.7	14.6	
9,443.0	0.35	338.29	9,345.6	-238.1	-1,093.2	0.66	0.00	132.85	28.6	14.8	
9,537.0	1.23	312.36	9,439.6	-237.1	-1,094.0	0.99	0.94	-27.59	18.0	25.7	
9,632.0	1.85	307.79	9,534.5	-235.5	-1,096.0	0.66	0.65	-4.81	13.3	27.0	
9,726.0	1.76	284.85	9,628.5	-234.2	-1,098.6	0.77	-0.10	-24.40	-1.1	29.4	
9,820.0	2.37	289.42	9,722.4	-233.2	-1,101.8	0.67	0.65	4.86	-2.1	29.6	
9,914.0	1.49	333.54	9,816.4	-231.4	-1,104.2	1.77	-0.94	46.94	16.4	24.0	
10,008.0	1.41	354.20	9,910.3	-229.2	-1,104.8	0.56	-0.09	21.98	21.6	17.1	
10,102.0	1.23	323.26	10,004.3	-227.2	-1,105.6	0.77	-0.19	-32.91	7.7	25.2	
10,196.0	1.23	326.86	10,098.3	-225.6	-1,106.7	0.08	0.00	3.83	7.3	24.7	
10,291.0	1.14	328.53	10,193.3	-223.9	-1,107.8	0.10	-0.09	1.76	6.0	24.5	



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Site: Gerty 5 Fed Com			MD Reference:			KB = 25 @ 3469.0usft		
Well: #506H			North Reference:			Old		
Wellbore: OH			Survey Calculation Method:			Minimum Curvature		
Design: OH			Database:			EDM 5000.14		
Survey								
MD (usft)	Inc (°)	Az (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
10,385.0	1.06	320.62	10,287.3	-222.4	-1,108.6	0.18	-0.09	-8.41
10,504.0	0.97	284.06	10,406.2	-221.4	-1,110.5	0.54	-0.08	-30.72
10,588.0	4.48	354.46	10,500.1	-217.5	-1,111.6	4.53	3.73	74.89
10,692.0	13.98	0.44	10,592.8	-202.5	-1,111.9	10.14	10.11	6.36
10,767.0	25.41	4.75	10,682.1	-170.6	-1,110.1	12.12	12.03	4.54
10,861.0	35.35	4.31	10,763.1	-123.2	-1,106.4	10.58	10.57	-0.47
10,975.0	46.34	4.04	10,834.1	-62.0	-1,101.9	11.69	11.69	-0.29
11,022.0	53.20	3.52	10,864.4	-26.2	-1,099.6	14.62	14.60	-1.11
11,069.0	56.81	2.64	10,891.4	12.2	-1,097.5	7.83	7.68	-1.87
11,163.0	62.78	1.23	10,938.7	93.4	-1,094.8	6.48	6.35	-1.50
11,257.0	69.91	359.82	10,976.4	178.4	-1,094.0	7.71	7.59	-1.50
11,352.0	76.61	358.15	11,002.1	270.7	-1,095.7	9.31	9.16	-1.76
11,401.0	85.30	357.45	11,009.0	319.2	-1,097.5	13.73	13.65	-1.43
11,540.0	87.85	356.95	11,017.3	457.9	-1,101.9	2.13	1.83	1.08
11,634.0	88.99	359.30	11,019.8	551.8	-1,103.3	1.27	1.21	0.37
11,729.0	88.55	359.47	11,021.9	646.8	-1,104.3	0.50	-0.46	0.18
11,823.0	90.13	359.30	11,023.0	740.8	-1,105.4	1.69	1.68	-0.18
11,917.0	90.57	359.21	11,022.4	834.8	-1,106.6	0.49	0.47	-0.10
12,012.0	90.22	359.74	11,021.7	929.7	-1,107.5	0.67	-0.37	0.56
12,106.0	90.04	0.35	11,021.5	1,023.7	-1,107.4	0.68	-0.19	0.65
12,200.0	89.43	0.61	11,022.0	1,117.7	-1,106.6	0.71	-0.65	0.28
12,294.0	90.66	0.18	11,021.9	1,211.7	-1,105.9	1.39	1.31	-0.46
12,389.0	91.01	0.26	11,020.5	1,306.7	-1,105.6	0.38	0.37	0.08
12,483.0	91.01	0.18	11,018.8	1,400.7	-1,105.2	0.09	0.00	-0.09
12,577.0	91.28	0.53	11,017.0	1,494.7	-1,104.6	0.47	0.29	0.37
12,671.0	90.66	1.05	11,015.4	1,588.7	-1,103.3	0.86	-0.66	0.55
12,766.0	90.22	1.23	11,014.6	1,683.6	-1,101.4	0.50	-0.46	0.19



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Getty 5 Fed Com
Well: #506H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3469.0usft
MD Reference: KB = 25 @ 3469.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)
	12,860.0	90.57	1.23	11,014.0	1,777.6	-1,099.4	0.37	0.37	0.00	7.3	-5.7
	12,954.0	90.75	2.20	11,012.9	1,871.6	-1,096.6	1.05	0.19	1.03	6.4	-8.2
	13,049.0	89.52	1.05	11,012.7	1,966.5	-1,093.9	1.77	-1.29	-1.21	6.3	-12.6
	13,143.0	89.52	2.64	11,013.5	2,060.5	-1,090.9	1.69	0.00	1.69	7.2	-16.3
	13,260.0	89.25	1.32	11,014.7	2,177.4	-1,086.9	1.15	-0.23	-1.13	8.6	-21.3
	13,331.0	89.34	1.23	11,015.6	2,248.4	-1,085.3	0.18	0.13	-0.13	9.6	-23.4
	13,425.0	92.15	3.34	11,014.4	2,342.3	-1,081.5	3.74	2.99	2.24	8.6	-27.8
	13,519.0	91.01	0.44	11,011.8	2,436.2	-1,078.4	3.31	-1.21	-3.09	6.1	-31.7
	13,614.0	90.22	358.33	11,010.8	2,531.2	-1,079.4	2.37	-0.83	-2.22	5.2	-31.4
	13,708.0	89.52	357.71	11,011.0	2,625.1	-1,082.7	0.99	-0.74	-0.66	5.6	-28.6
	13,802.0	89.16	357.63	11,012.1	2,719.0	-1,086.5	0.39	-0.38	-0.09	6.9	-25.7
	13,896.0	89.78	359.03	11,012.9	2,813.0	-1,089.3	1.63	0.66	1.49	7.9	-23.7
	13,990.0	89.43	358.95	11,013.6	2,907.0	-1,090.9	0.38	-0.37	-0.09	8.5	-22.8
	14,084.0	89.69	358.77	11,014.3	3,000.9	-1,092.8	0.34	0.28	-0.19	9.1	-21.6
	14,178.0	89.02	357.54	11,016.2	3,094.9	-1,095.8	2.21	-1.78	-1.31	10.8	-19.3
	14,273.0	88.20	357.10	11,019.3	3,189.7	-1,100.2	0.50	0.19	-0.46	13.7	-15.6
	14,367.0	89.78	357.80	11,021.0	3,283.6	-1,104.4	1.84	1.68	0.74	15.2	-12.1
	14,461.0	90.13	357.89	11,021.1	3,377.5	-1,106.0	0.38	0.37	0.10	15.1	-9.3
	14,556.0	89.52	357.36	11,021.3	3,472.4	-1,111.9	0.85	-0.64	-0.56	15.2	-6.1
	14,650.0	89.34	357.89	11,022.3	3,566.4	-1,115.8	0.60	-0.19	0.56	15.9	-2.9
	14,745.0	88.81	357.89	11,023.8	3,661.3	-1,119.3	0.56	-0.56	0.00	17.2	-0.1
	14,839.0	88.64	357.80	11,025.9	3,755.2	-1,122.8	0.20	-0.18	-0.10	19.2	2.7
	14,933.0	88.55	357.89	11,028.2	3,849.1	-1,126.4	0.14	-0.10	0.10	21.3	5.5
	15,027.0	89.25	358.51	11,030.0	3,943.0	-1,129.3	0.99	0.74	0.66	22.9	7.8
	15,122.0	89.96	358.95	11,030.7	4,038.0	-1,131.4	0.88	0.75	0.46	23.4	9.1
	15,216.0	90.31	359.38	11,030.4	4,132.0	-1,132.8	0.59	0.37	0.46	22.9	9.8
	15,310.0	90.22	359.65	11,030.0	4,226.0	-1,133.6	0.30	-0.10	0.29	22.3	9.9



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #506H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3469.0usft
Site:	Gatty 5 Fed Com	MD Reference:	KB = 25 @ 3469.0usft
Well:	#506H	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)	
15,404.0	90.22	359.82	11,029.7	4,320.0	-1,134.0	0.18	0.00	0.18	21.8	9.6	
15,499.0	90.66	359.91	11,028.9	4,414.0	-1,134.2	0.48	0.47	0.10	20.7	9.1	
15,593.0	91.10	0.26	11,027.5	4,509.0	-1,134.1	0.59	0.46	0.37	18.5	8.2	
15,687.0	88.90	0.00	11,027.5	4,603.0	-1,133.9	2.36	-2.34	-0.28	17.8	7.3	
15,781.0	88.37	0.26	11,029.7	4,696.9	-1,133.7	0.63	-0.56	0.28	19.2	6.4	
15,876.0	88.46	0.70	11,032.3	4,791.9	-1,132.9	0.47	0.09	0.46	21.1	4.9	
15,970.0	88.29	0.70	11,035.0	4,885.9	-1,131.7	0.18	-0.18	0.00	23.0	3.0	
16,064.0	87.32	0.61	11,038.6	4,979.8	-1,130.7	1.04	-1.03	-0.10	25.9	1.2	
16,158.0	89.87	0.53	11,040.9	5,073.7	-1,129.7	2.71	2.71	-0.09	27.4	-0.4	
16,253.0	90.48	0.35	11,040.6	5,168.7	-1,129.0	0.67	0.64	-0.19	26.4	-1.9	
16,347.0	90.22	359.74	11,040.0	5,262.7	-1,128.9	0.71	-0.28	-0.65	25.1	-2.7	
16,441.0	89.43	359.56	11,040.3	5,356.7	-1,129.5	0.86	-0.84	-0.19	24.6	-2.8	
16,535.0	90.84	359.03	11,040.1	5,450.7	-1,130.6	1.60	1.50	-0.56	23.7	-2.4	
16,629.0	90.92	359.21	11,038.7	5,544.7	-1,132.1	0.21	0.09	0.19	21.5	-1.6	
16,723.0	90.48	358.77	11,037.5	5,638.7	-1,133.7	0.66	-0.47	-0.47	19.6	-0.7	
16,818.0	90.31	358.77	11,036.9	5,733.7	-1,135.8	0.18	-0.18	0.00	18.2	0.6	
16,912.0	89.43	358.77	11,037.1	5,827.6	-1,137.8	0.94	-0.94	0.00	17.6	1.9	
17,006.0	91.01	358.86	11,036.7	5,921.6	-1,139.8	1.68	1.68	0.10	16.5	3.2	
17,101.0	90.75	358.68	11,035.3	6,016.6	-1,141.8	0.33	-0.27	-0.19	14.2	4.5	
17,195.0	89.96	358.68	11,034.7	6,110.5	-1,144.0	0.84	-0.84	0.00	12.7	5.9	
17,289.0	90.13	358.42	11,034.6	6,204.5	-1,146.3	0.33	0.18	-0.28	11.8	7.6	
17,383.0	89.69	357.54	11,034.7	6,298.5	-1,149.6	1.05	-0.47	-0.94	11.1	10.2	
17,478.0	89.96	358.95	11,035.0	6,393.4	-1,152.6	1.51	0.28	1.48	10.5	12.4	
17,572.0	88.02	358.15	11,036.7	6,487.4	-1,154.9	2.23	-2.06	-0.85	11.3	14.0	
17,666.0	89.78	358.95	11,038.5	6,581.3	-1,157.3	2.06	1.87	0.85	12.3	15.7	
17,761.0	89.52	358.95	11,039.1	6,676.3	-1,159.1	0.27	-0.27	0.00	12.0	16.7	
17,855.0	90.22	359.30	11,039.3	6,780.3	-1,160.6	0.75	0.67	0.34	11.3	17.5	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #506H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3469.0usft
Site:	Getty 5 Fed Com	MD Reference:	KB = 25 @ 3469.0usft
Well:	#506H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
17,949.0	91.80	0.61	11,037.8	6,864.3	-1,160.7	2.44	1.88	1.56	9.1	16.9
18,043.0	91.45	1.14	11,035.2	6,958.2	-1,159.3	0.68	-0.37	0.56	5.5	14.8
18,137.0	89.87	0.97	11,034.1	7,052.2	-1,157.5	1.69	-1.68	-0.18	3.6	12.3
18,232.0	89.87	0.70	11,034.3	7,147.2	-1,156.2	0.28	0.00	-0.28	3.0	10.2
18,326.0	89.34	0.70	11,034.9	7,241.2	-1,155.0	0.56	-0.56	0.00	2.8	8.4
18,431.0	88.29	0.44	11,037.1	7,346.1	-1,154.0	1.03	-1.00	-0.25	4.0	6.5
18,626.0	88.29	0.44	11,042.9	7,541.0	-1,152.5	0.00	0.00	0.00	8.0	3.5

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			Comment
		+N/S (usft)	+E/W (usft)		
10,530.0	10,432.2	-221.0	-1,110.9		KOP, MD:10530.0', TVD:10432.2', N/S:-221.0', E/W:-1110.9', INC:1.62
10,819.1	10,710.7	-156.0	-1,108.9		FTP Crossing, MD:10819.1', TVD:10710.7', N/S:-156.0', E/W:-1108.9', INC:28.8'
18,431.0	11,037.1	7,346.1	-1,154.0		Last MWD Survey (MD=18431.0')
18,626.0	11,042.9	7,541.0	-1,152.5		Projection to Bit (MD=18626.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Getty 5 Fed Com #506H

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: #506H

KB ~ 25 @ 3469.0usft 3444.0
Northing 420205.00 Easting 770816.00 Latitude 32° 9' 10.976 N Longitude 103° 35' 30.575 W

Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.40°

Magnetic Field
Strength: 47746.6nT
Dip Angle: 59.97°
Date: 12/13/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.40°
To convert a Magnetic Direction to a True Direction, Add 6.80° East
To convert a True Direction to a Grid Direction, Subtract 6.39°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	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	1740.8	10.82	259.30	1737.6	-5.6	-50.0	2.00	259.30	-1.8	
4	7110.0	10.82	259.30	7011.4	-196.5	-1040.0	0.00	0.00	-37.9	
5	7650.8	0.00	0.00	7549.0	-206.0	-1090.0	2.00	180.00	-39.7	Brushy Top (Getty 5 FC #506H)
6	10337.8	0.00	0.00	10435.0	-208.0	-1090.0	0.00	0.00	-39.7	
7	11438.7	90.09	359.56	11009.0	367.8	-1034.4	10.00	359.56	528.3	
8	13935.0	90.09	359.56	11005.0	2865.1	-1113.4	2.00	0.00	3000.0	TGT#1 (Getty 5 FC #506H)
9	13946.3	89.89	359.56	11005.0	2875.3	-1113.4	2.00	180.00	3010.1	
10	15451.6	89.69	359.56	11008.0	4380.8	-1124.9	0.00	0.00	4500.0	TGT#2 (Getty 5 FC #506H)
11	15468.6	89.64	359.56	11008.1	4397.7	-1125.0	2.00	-180.00	4516.9	
12	16967.2	89.64	359.56	11020.0	6896.1	-1136.4	0.00	0.00	6000.0	TGT#3 (Getty 5 FC #506H)
13	16970.3	89.48	359.56	11020.0	6899.3	-1136.4	2.00	180.00	6003.1	
14	18523.2	89.48	359.56	11035.0	7552.0	-1149.0	0.00	-0.00	7638.9	PBHL (Getty 5 FC #506H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top (Getty 5 FC #506H)	7549.0	-206.0	-1090.0	419999.00	769726.00
TGT#1 (Getty 5 FC #506H)	11005.0	2865.1	-1113.4	423370.10	769702.64
TGT#2 (Getty 5 FC #506H)	11008.0	4380.8	-1124.9	424505.00	769591.12
TGT#3 (Getty 5 FC #506H)	11020.0	6899.3	-1136.4	425101.10	769679.59
PBHL (Getty 5 FC #506H)	11035.0	7552.0	-1149.0	427767.00	768567.00
FTP (Getty 5 FC #506H)	11010.0	-155.0	-1090.0	425049.00	769726.00

