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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Adder 31 State

#507H

OH

Design: OH

Midland PVA

29 August, 2019



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Adder 31 State Well: #507H Wellbore: OH Design: OH		Local Co-ordinate Reference: Well #507H TVD Reference: KB = 25' @ 3528.0usft MD Reference: KB = 25' @ 3528.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: 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 Adder 31 State															
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 425,513.00 usft Eastng: 765,412.00 usft Slot Radius: 13-3/16 " Latitude: 32° 10' 3.867 N Longitude: 103° 38' 33.017 W Grid Convergence: 0.39 °													
Well #507H															
Well Position +N-S 0.0 usft +E-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 425,514.00 usft Eastng: 765,478.00 usft Wellhead Elevation: usft Latitude: 32° 10' 3.872 N Longitude: 103° 38' 32.249 W Ground Level: 3,501.0 usft													
Wellbore OH															
<table border="1"> <thead> <tr> <th>Magnetics</th> <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></td> <td>IGRF2015</td> <td>3/11/2019</td> <td>6.78</td> <td>59.98</td> <td>47,722.27149208</td> </tr> </tbody> </table>				Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)		IGRF2015	3/11/2019	6.78	59.98	47,722.27149208
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	IGRF2015	3/11/2019	6.78	59.98	47,722.27149208										
Design OH															
Audit Notes: Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0															
<table border="1"> <thead> <tr> <th>Vertical Section:</th> <th>Depth From (TVD) (usft)</th> <th>+N-S (usft)</th> <th>+E-W (usft)</th> <th>Direction (°)</th> </tr> </thead> <tbody> <tr> <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>16.12</td> </tr> </tbody> </table>				Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)		0.0	0.0	0.0	16.12		
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Survey Program Date 8/28/2019															
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172.0	15,789.0	Drilltech MWD (OH)	MWD	OWSG MWD - Standard											



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #507H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3526.0usft
Site:	Adder 31 State	MD Reference:	KB = 25' @ 3526.0usft
Well:	#507H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NIS (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
172.0	1.10	38.90	172.0	1.3	1.0	0.64	0.64	0.00	-1.7	0.0
228.0	1.50	33.30	228.0	2.4	1.7	0.73	0.71	-8.43	-2.9	-0.1
316.0	1.80	37.50	315.9	4.4	3.2	0.37	0.34	4.77	-5.5	0.2
404.0	2.10	33.40	403.9	6.9	4.9	0.38	0.34	-4.66	-8.4	-0.3
583.0	3.00	44.60	582.7	12.9	10.0	0.57	0.50	6.26	-16.2	2.0
770.0	4.10	48.10	769.3	20.9	18.4	0.60	0.59	1.87	-27.7	3.2
863.0	4.60	49.10	862.1	25.5	23.7	0.54	0.54	1.08	-34.7	3.8
1,049.0	4.40	49.00	1,047.5	35.1	34.7	0.11	-0.11	-0.05	-49.3	3.7
1,143.0	3.90	52.80	1,141.3	39.4	40.0	0.61	-0.53	4.04	-55.7	7.2
1,232.0	3.30	54.20	1,230.1	42.7	44.5	0.68	-0.67	1.57	-61.0	8.8
1,326.0	3.80	66.00	1,323.9	45.6	49.5	0.94	0.53	12.55	-61.5	23.0
1,419.0	5.10	80.20	1,416.6	47.5	56.4	1.82	1.40	15.27	-55.8	40.1
1,512.0	6.50	90.70	1,509.1	48.2	65.6	1.88	1.51	11.29	-48.4	51.7
1,605.0	8.20	94.10	1,601.4	47.6	77.6	1.89	1.83	3.66	-45.5	56.0
1,699.0	10.40	97.60	1,694.1	48.0	82.7	2.42	2.34	3.72	-42.3	59.7
1,794.0	12.30	99.60	1,787.3	43.2	111.2	2.04	2.00	2.11	-40.7	61.5
1,887.0	14.70	101.80	1,877.7	39.1	132.5	2.64	2.58	2.47	-39.2	62.7
1,980.0	15.40	103.80	1,967.5	33.8	156.1	0.92	0.75	2.04	-37.7	62.8
2,166.0	15.10	103.40	2,147.0	22.3	203.6	0.17	-0.16	-0.22	-38.5	59.2
2,259.0	15.10	103.20	2,236.8	16.7	227.2	0.08	0.00	-0.22	-38.6	57.6
2,446.0	16.70	104.10	2,416.6	4.8	277.0	0.87	0.86	0.48	-40.3	55.0
2,632.0	16.50	103.70	2,594.8	-8.2	328.6	0.12	-0.11	-0.22	-45.4	51.3
2,725.0	16.40	102.60	2,684.0	-14.2	354.2	0.35	-0.11	-1.18	-48.4	49.0
2,819.0	16.10	103.50	2,774.3	-20.1	379.8	0.42	-0.32	0.96	-49.5	48.4
2,913.0	15.70	103.80	2,864.7	-26.2	404.9	0.43	-0.43	0.11	-50.6	46.9
3,008.0	15.70	104.20	2,954.2	-32.2	429.3	0.17	0.00	0.65	-51.1	45.7



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3,100.0	15.40	104.00	3,044.8	-38.3	453.7	0.32	-0.32	-0.21	-51.9	43.7	
3,193.0	15.30	104.00	3,134.5	-44.3	477.6	0.11	-0.11	0.00	-52.3	42.0	
3,287.0	15.30	103.90	3,225.1	-50.3	501.7	0.03	0.00	-0.11	-52.6	40.1	
3,380.0	15.20	103.80	3,314.8	-56.1	525.4	0.11	-0.11	-0.11	-52.8	38.4	
3,474.0	14.90	103.40	3,405.6	-61.9	549.2	0.34	-0.32	-0.43	-52.9	36.4	
3,568.0	14.20	104.00	3,496.6	-67.5	572.1	0.76	-0.74	0.64	-51.6	35.3	
3,662.0	13.60	104.10	3,587.9	-72.9	594.0	0.64	-0.64	0.11	-49.5	33.6	
3,756.0	13.70	104.10	3,679.2	-78.3	615.5	0.11	0.11	0.00	-47.1	31.8	
3,849.0	14.70	101.10	3,769.4	-83.3	637.8	1.33	1.08	-3.23	-47.0	28.3	
3,943.0	14.10	101.00	3,860.4	-87.8	660.7	0.84	-0.64	-0.11	-45.8	27.7	
4,036.0	13.40	100.60	3,950.7	-91.9	682.4	0.76	-0.75	-0.43	-43.7	27.0	
4,130.0	12.60	101.10	4,042.3	-95.9	703.2	0.86	-0.85	0.53	-39.9	26.9	
4,223.0	11.90	101.60	4,133.2	-99.8	722.6	0.76	-0.75	0.54	-34.9	26.6	
4,316.0	12.00	100.70	4,224.2	-103.5	741.5	0.23	0.11	-0.97	-30.1	25.6	
4,502.0	11.50	101.60	4,406.3	-110.8	778.6	0.29	-0.27	0.48	-18.6	24.9	
4,596.0	11.10	101.30	4,498.5	-114.5	798.7	0.43	-0.43	-0.32	-12.4	24.1	
4,689.0	11.20	101.40	4,589.7	-118.0	814.3	0.11	0.11	0.11	-5.9	23.5	
4,783.0	11.40	103.60	4,681.9	-122.0	832.3	0.51	0.21	2.34	1.3	22.5	
4,877.0	11.70	104.60	4,774.0	-126.6	850.5	0.38	0.32	1.06	7.5	20.6	
4,968.0	10.60	104.20	4,863.3	-131.0	867.6	1.21	-1.21	-0.44	13.7	18.8	
5,046.0	9.90	104.20	4,940.0	-134.4	881.0	0.90	-0.90	0.00	20.3	17.3	
5,142.0	10.90	100.30	5,034.5	-138.0	898.0	1.27	1.04	-4.06	27.2	17.8	
5,241.0	13.50	97.10	5,131.2	-141.1	918.6	2.71	2.63	-3.23	31.3	20.0	
5,330.0	16.00	94.60	5,217.3	-143.4	941.2	2.90	2.81	-2.81	31.0	22.9	
5,424.0	17.90	94.60	5,307.2	-145.6	968.5	2.02	2.02	0.00	28.0	25.2	
5,611.0	18.50	95.60	5,484.8	-150.8	1,026.7	0.36	0.32	0.53	18.4	28.9	
5,798.0	18.40	96.20	5,662.2	-156.9	1,085.5	0.11	-0.05	0.32	7.9	32.1	



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5,985.0	17.70	96.00	5,840.0	-163.0	1,143.1	0.38	-0.37	-0.11	-1.7	35.3	
6,172.0	17.10	95.20	6,018.5	-168.5	1,198.8	0.35	-0.32	-0.43	-9.6	38.9	
6,358.0	16.60	94.80	6,196.5	-173.2	1,252.5	0.28	-0.27	-0.22	-15.5	43.0	
6,452.0	16.40	95.10	6,286.8	-175.5	1,279.1	0.23	-0.21	0.32	-17.5	45.1	
6,546.0	16.70	95.00	6,376.7	-177.9	1,305.8	0.32	0.32	-0.11	-19.9	47.2	
6,639.0	16.20	94.50	6,465.9	-180.0	1,332.0	0.56	-0.54	-0.54	-22.5	49.2	
6,733.0	15.30	99.10	6,556.4	-183.0	1,357.3	1.64	-0.96	4.89	-19.6	52.1	
6,827.0	12.90	107.00	6,647.5	-188.1	1,379.8	3.27	-2.55	8.40	-10.8	53.0	
6,921.0	13.30	107.90	6,739.1	-194.5	1,400.0	0.48	0.43	0.96	-9.0	50.1	
7,015.0	12.00	103.60	6,830.8	-200.1	1,419.7	1.71	-1.38	-4.57	-13.7	47.3	
7,108.0	8.20	112.10	6,922.4	-204.9	1,435.3	4.38	-4.09	9.14	-6.8	46.7	
7,202.0	6.00	120.60	7,015.6	-209.9	1,445.7	2.59	-2.34	9.04	1.3	43.4	
7,296.0	4.30	103.90	7,109.3	-213.2	1,453.4	2.39	-1.81	-17.77	-8.9	39.8	
7,390.0	4.30	97.70	7,203.0	-214.5	1,460.3	0.49	0.00	-6.60	-12.8	38.8	
7,483.0	4.10	88.40	7,295.7	-215.5	1,467.0	0.22	-0.22	0.75	-14.8	38.9	
7,577.0	4.40	102.70	7,389.5	-216.8	1,473.9	0.47	0.32	4.57	-17.5	40.1	
7,670.0	4.70	100.20	7,482.2	-218.2	1,481.1	0.39	0.32	-2.89	-26.5	39.1	
7,763.0	4.50	102.30	7,574.9	-219.7	1,488.4	0.28	-0.22	2.26	-32.6	40.2	
7,857.0	4.70	104.10	7,668.6	-221.4	1,495.8	0.26	0.21	1.91	-38.8	41.4	
7,951.0	4.30	107.80	7,762.3	-223.4	1,502.9	0.53	-0.43	3.94	-43.4	44.0	
8,044.0	4.00	109.30	7,855.1	-225.6	1,509.2	0.34	-0.32	1.61	-49.0	45.2	
8,231.0	3.40	115.70	8,041.7	-230.1	1,520.4	0.39	-0.32	3.42	-55.7	51.1	
8,325.0	3.50	139.00	8,135.5	-233.5	1,524.8	1.49	0.11	24.79	-36.4	70.1	
8,419.0	3.20	120.90	8,229.3	-237.0	1,528.9	1.16	-0.32	-19.28	-61.7	54.5	
8,511.0	3.20	126.00	8,321.2	-239.8	1,533.2	0.31	0.00	5.54	-61.7	60.0	
8,605.0	2.40	140.00	8,415.1	-242.9	1,536.6	1.11	-0.85	14.89	-49.9	73.7	
8,792.0	2.10	153.60	8,601.9	-249.0	1,540.6	0.33	-0.16	7.27	-38.4	84.3	



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8,886.0	2.10	158.10	8,695.9	-252.1	1,542.1	0.10	0.00	2.68	-38.2		88.0
8,980.0	2.30	165.40	8,789.8	-255.5	1,543.3	0.43	0.21	9.89	-27.4		91.3
9,073.0	1.80	164.00	8,882.7	-258.8	1,544.2	0.43	-0.43	-1.51	-33.0		90.6
9,167.0	1.80	170.60	8,978.7	-261.7	1,544.8	0.25	-0.11	7.02	-25.4		93.9
9,260.0	1.30	181.70	9,069.7	-264.2	1,545.0	0.62	-0.54	11.94	-9.3		97.4
9,353.0	1.50	182.10	9,162.6	-268.5	1,545.0	0.22	0.22	0.43	-10.9		97.4
9,447.0	1.20	183.80	9,256.6	-268.7	1,544.8	0.32	-0.32	1.81	-10.2		97.7
9,540.0	1.50	156.30	9,349.6	-270.8	1,545.3	0.78	0.32	-29.57	-56.3		81.5
9,633.0	1.20	174.60	9,442.6	-272.9	1,545.9	0.56	-0.32	19.68	-30.0		95.5
9,727.0	0.90	221.10	9,536.5	-274.4	1,545.5	0.93	-0.32	49.47	47.2		88.2
9,820.0	1.80	261.30	9,628.5	-275.2	1,543.5	1.35	0.97	43.23	90.9		37.4
9,914.0	2.40	252.80	9,723.5	-276.0	1,540.2	0.72	0.64	-8.94	81.0		50.1
10,007.0	2.30	269.30	9,816.4	-276.6	1,536.5	0.73	-0.11	17.63	88.2		25.7
10,101.0	1.40	247.00	9,910.3	-277.0	1,533.5	1.21	-0.96	-23.72	68.9		58.5
10,194.0	1.80	229.10	10,003.3	-278.4	1,531.4	0.68	0.43	-19.25	45.7		74.6
10,275.0	2.80	234.20	10,084.2	-280.4	1,528.9	1.02	0.99	6.30	49.0		70.4
10,327.0	2.40	238.70	10,136.2	-281.6	1,527.0	0.54	-0.38	8.65	52.1		66.4
10,421.0	10.90	350.70	10,228.6	-273.8	1,523.9	12.77	9.04	119.15	35.4		-71.2
10,514.0	23.30	355.40	10,318.4	-248.7	1,521.0	13.41	13.33	5.05	16.1		-72.2
10,608.0	32.50	354.80	10,401.3	-202.9	1,517.1	9.80	9.79	-0.85	0.7		-69.7
10,701.0	45.30	354.20	10,473.6	-145.0	1,511.4	13.77	13.78	-0.43	-18.0		-65.8
10,748.0	52.10	353.60	10,504.6	-109.9	1,507.8	14.50	14.47	-1.28	-29.2		-63.4
10,795.0	55.20	353.80	10,532.4	-72.2	1,503.5	6.60	6.60	0.43	-41.4		-60.3
10,842.0	58.30	356.10	10,558.2	-33.1	1,500.1	7.78	6.60	4.89	-53.5		-56.3
10,889.0	60.00	359.00	10,582.3	7.2	1,498.3	6.41	3.62	6.17	-63.6		-53.1
10,936.0	60.10	359.00	10,605.8	47.9	1,497.6	0.21	0.21	0.00	-68.3		-52.4
10,982.0	62.40	357.50	10,627.9	88.2	1,496.4	5.78	5.00	-3.26	-69.0		-52.2



Midland PVA

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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)	
11,029.0	61.80	357.30	10,849.8	128.7	1,484.5	1.13	-1.08	-0.43	-66.5	-50.8	
11,075.0	60.60	357.10	10,872.0	170.0	1,492.5	2.85	-2.83	-0.43	-58.8	-49.5	
11,122.0	66.30	357.40	10,883.0	212.0	1,480.5	12.14	12.13	0.64	-49.4	-47.3	
11,169.0	71.30	358.50	10,710.0	255.8	1,489.0	10.86	10.84	2.34	-40.3	-45.6	
11,216.0	72.70	359.00	10,724.5	300.5	1,488.0	3.15	2.98	1.06	-29.3	-45.0	
11,263.0	77.20	358.90	10,738.7	345.8	1,487.2	9.58	9.57	-0.21	-17.9	-44.1	
11,310.0	81.10	355.70	10,745.5	391.9	1,485.0	10.68	8.30	-8.81	-9.3	-42.2	
11,358.0	83.70	356.70	10,751.6	437.4	1,482.0	8.05	5.65	2.17	-3.8	-39.5	
11,449.0	87.90	356.30	10,758.4	530.0	1,478.3	4.54	4.52	-0.43	2.4	-34.5	
11,542.0	87.10	355.50	10,762.5	622.6	1,469.6	1.22	-0.86	-0.86	6.0	-28.6	
11,636.0	88.00	356.40	10,766.5	716.3	1,463.0	1.35	0.96	0.96	9.4	-22.8	
11,729.0	89.60	357.10	10,768.5	809.2	1,457.7	1.88	1.72	0.75	10.8	-18.2	
11,822.0	90.00	358.00	10,768.8	902.1	1,453.8	1.06	0.43	0.97	10.6	-15.0	
11,915.0	89.50	357.60	10,769.2	995.0	1,450.2	0.69	-0.54	-0.43	10.6	-12.2	
12,008.0	89.10	358.00	10,770.3	1,087.9	1,446.6	0.61	-0.43	0.43	11.2	-9.4	
12,102.0	88.80	357.60	10,772.0	1,181.8	1,443.0	0.53	-0.32	-0.43	12.4	-6.5	
12,185.0	89.60	358.70	10,773.3	1,274.8	1,440.0	1.46	0.86	1.18	13.2	-4.2	
12,289.0	91.70	358.30	10,772.3	1,368.7	1,437.6	2.27	2.23	-0.43	11.6	-2.5	
12,381.0	92.10	357.90	10,769.2	1,460.6	1,434.5	0.61	0.43	-0.43	8.0	-0.2	
12,475.0	92.20	358.60	10,765.7	1,554.5	1,431.6	0.75	0.11	0.74	4.0	1.9	
12,568.0	92.20	358.90	10,762.1	1,647.4	1,429.6	0.32	0.00	0.32	-0.1	3.2	
12,662.0	89.90	359.10	10,760.4	1,741.4	1,428.0	2.46	-2.45	0.21	-2.3	4.1	
12,756.0	89.20	358.50	10,761.1	1,835.4	1,426.0	0.88	-0.74	-0.64	-2.1	5.3	
12,850.0	88.70	358.10	10,762.9	1,928.3	1,423.2	0.68	-0.53	-0.43	-0.9	7.3	
12,944.0	87.80	357.50	10,765.7	2,023.2	1,419.6	1.15	-0.96	-0.64	1.5	10.2	
13,038.0	89.30	359.00	10,768.1	2,117.1	1,416.7	2.26	1.60	1.60	3.4	12.3	
13,132.0	90.00	359.00	10,768.7	2,211.1	1,415.1	0.74	0.74	0.00	3.3	13.2	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Adder 31 State
 Well: #507H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #507H
 TVD Reference: KB = 25' @ 3526.0usft
 MD Reference: KB = 25' @ 3526.0usft
 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)	
13,225.0	89.40	359.50	10,769.2	2,304.1	1,413.9	0.84	-0.65	0.54	3.1	13.6	
13,318.0	89.40	359.50	10,770.2	2,398.1	1,413.1	0.00	0.00	0.00	3.4	13.7	
13,412.0	89.50	359.00	10,771.1	2,491.1	1,411.8	0.55	0.11	-0.54	3.6	14.2	
13,506.0	89.10	359.00	10,772.2	2,585.0	1,410.2	0.43	-0.43	0.00	4.1	15.1	
13,599.0	89.30	358.60	10,773.5	2,678.0	1,408.3	0.48	0.22	-0.43	4.7	16.3	
13,692.0	89.00	359.10	10,774.9	2,771.0	1,406.4	0.63	-0.32	0.54	5.4	17.4	
13,786.0	90.70	0.30	10,775.1	2,865.0	1,405.9	2.21	1.81	1.28	4.9	17.1	
13,879.0	90.70	359.50	10,774.0	2,958.0	1,405.7	0.86	0.00	-0.88	3.1	16.6	
13,972.0	90.70	359.50	10,772.9	3,051.0	1,404.9	0.00	0.00	0.00	1.3	16.6	
14,065.0	90.40	358.50	10,772.0	3,143.9	1,403.3	1.12	-0.32	-1.08	-0.3	17.5	
14,158.0	90.30	358.10	10,771.4	3,236.9	1,400.5	0.44	-0.11	-0.43	-1.5	19.5	
14,250.0	89.80	358.50	10,771.3	3,328.9	1,397.8	0.70	-0.54	0.43	-2.3	21.5	
14,344.0	89.60	358.30	10,771.8	3,422.8	1,395.2	0.30	-0.21	-0.21	-2.5	23.4	
14,438.0	89.70	358.30	10,772.4	3,516.8	1,392.4	0.11	0.11	0.00	-2.6	25.4	
14,531.0	89.30	358.40	10,773.2	3,609.7	1,389.7	0.44	-0.43	0.11	-2.2	27.3	
14,625.0	90.90	359.80	10,773.0	3,703.7	1,388.2	2.28	1.70	1.49	-2.7	28.1	
14,718.0	90.70	359.50	10,771.7	3,796.7	1,387.7	0.39	-0.22	-0.32	-4.3	27.9	
14,812.0	90.80	359.20	10,770.5	3,890.7	1,386.6	0.34	0.11	-0.32	-5.9	28.2	
14,905.0	90.10	359.30	10,769.8	3,983.7	1,385.4	0.78	-0.75	0.11	-7.0	28.7	
14,999.0	89.50	0.00	10,770.1	4,077.7	1,384.8	0.98	-0.64	0.75	-7.0	28.5	
15,092.0	89.50	0.80	10,770.9	4,170.7	1,385.5	0.85	0.00	0.85	-6.5	27.1	
15,186.0	89.20	1.80	10,772.0	4,264.6	1,387.6	1.11	-0.32	1.06	-5.8	24.2	
15,278.0	89.20	2.20	10,773.3	4,356.6	1,390.8	0.43	0.00	0.43	-4.9	20.3	
15,372.0	89.00	2.50	10,774.7	4,450.5	1,394.7	0.38	-0.21	0.32	-3.7	15.7	
15,465.0	88.70	2.40	10,776.6	4,543.4	1,398.7	0.34	-0.32	-0.11	-2.2	10.9	
15,557.0	89.20	2.40	10,778.3	4,635.3	1,402.5	0.54	0.54	0.00	-0.9	6.4	
15,651.0	88.50	2.70	10,780.2	4,729.2	1,406.7	0.81	-0.74	0.32	0.7	1.4	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #507H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3528.0usft
Site:	Adder 31 State	MD Reference:	KB = 25' @ 3528.0usft
Well:	#507H	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)
15,727.0	88.40	3.20	10,782.2	4,805.0	1,410.6	0.67	-0.13	0.68	2.5	-3.1
15,789.0	88.40	3.20	10,784.0	4,866.9	1,414.1	0.00	0.00	0.00	4.0	-7.1

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
10,340.0	10,149.2	-281.7	1,526.8	KOP, MD:10340.0', TVD:10149.2', N/S:-281.7', E/W:1526.8', INC:2.06
10,609.8	10,402.9	-202.0	1,517.0	FTP Crossing, MD:10609.8', TVD:10402.9', N/S:-202.0', E/W:1517.0', INC:32.75
15,727.0	10,782.2	4,805.0	1,410.6	Last MWD Survey (MD=15727.0')
15,789.0	10,784.0	4,866.9	1,414.1	Projection to Bit (MD=15789.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 11/15/2019
Signed Date



Lea County, NM (NAD 83 NME)

Adder 31 State #507H

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: #507H

KB = 25' @ 3528.00ft
Northing 425514.00 Easting 785478.00
3501.0
Latitude 32° 10' 3.872 N Longitude 103° 36' 32.245 W

SECTION DETAILS

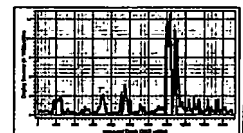
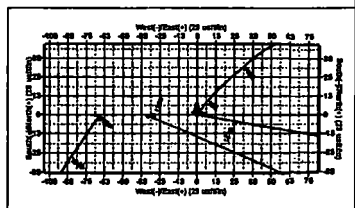
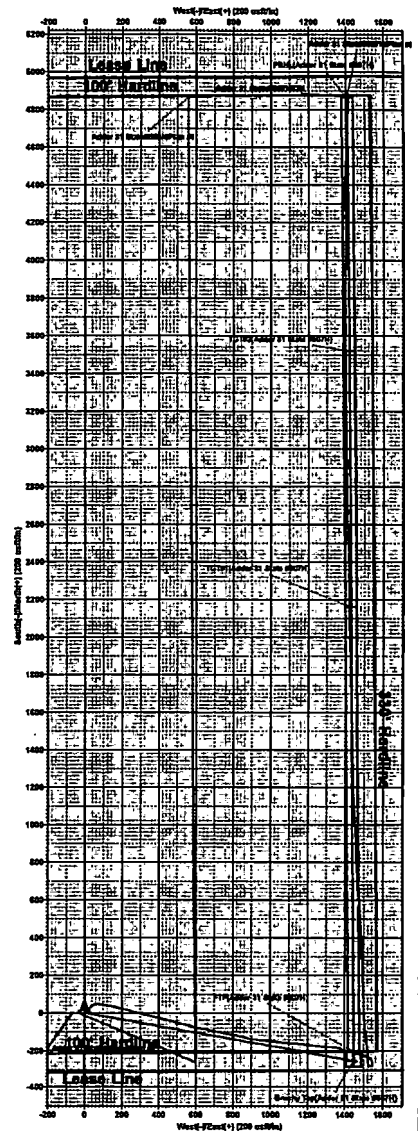
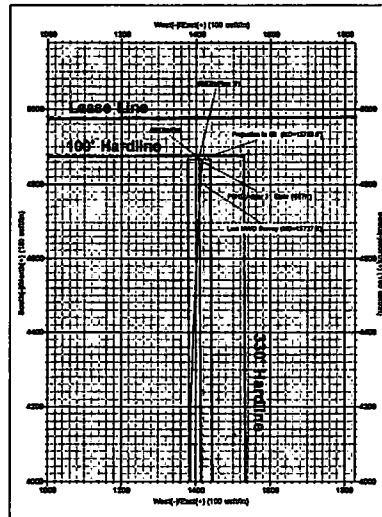
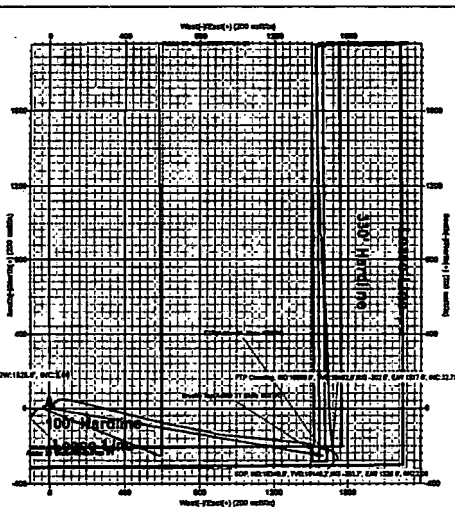
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VFace	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1958.6	15.17	99.87	1949.8	-17.1	98.4	2.00	99.87	10.9	
4	6811.2	15.17	99.87	6833.2	-234.9	1349.6	0.00	0.00	149.2	
5	7569.8	0.00	0.00	7383.0	-252.0	1448.0	2.00	180.00	160.0	
6	10368.8	0.00	0.00	10182.0	-252.0	1448.0	0.00	0.00	160.0	
7	11265.7	89.69	359.54	10764.9	317.8	1443.4	10.00	359.54	709.2	TGT#1(Adder 31 State #507H)
8	13111.3	89.69	359.54	10765.0	2163.3	1428.7	0.00	0.00	2475.0	
9	13116.8	89.58	359.54	10765.0	2168.8	1428.6	2.00	-180.00	2480.3	TGT#2(Adder 31 State #507H)
10	14467.7	89.58	359.54	10776.0	3519.7	1417.8	0.00	0.00	3775.0	
11	14478.3	89.79	359.54	10775.1	3530.2	1417.7	2.00	0.00	3785.1	
12	15815.1	89.79	359.54	10780.0	4867.0	1407.0	0.00	0.00	5056.3	PBHL(Adder 31 State #507H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
TGT#1(Adder 31 State #507H)	10765.0	2163.3	1428.7	427877.30	785804.65
TGT#2(Adder 31 State #507H)	10775.0	3519.7	1417.8	428033.70	785895.79
PBHL(Adder 31 State #507H)	10780.0	4867.0	1407.0	428381.00	786085.00
Brushy Top(Adder 31 State #507H)	7483.0	-252.0	1448.0	428281.00	786328.00
FTN(Adder 31 State #507H)	10783.0	-202.0	1448.0	428312.00	786328.00



Lea County, NM (NAD 83 NME)
Adder 31 State #507H
Plan #1