



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Endurance 36 State Com

#705H

OH

Design: OH

PVA

29 August, 2016

HOBBS OCD
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RECEIVED



EOG Resources, Inc.
PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25' @ 3362.0usft (Precision 612)
Site:	Endurance 36 State Com	MD Reference:	KB = 25' @ 3362.0usft (Precision 612)
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Endurance 36 State Com		
Site Position:		Northing:	365,036.00 usft
From:	Map	Easting:	749,506.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 3.760 N
		Longitude:	103° 31' 42.470 W
		Grid Convergence:	0.43 °

Well		#705H				
Well Position	+N/-S	0.0 usft	Northing:	365,114.00 usft	Latitude:	32° 0' 4.490 N
	+E/-W	0.0 usft	Easting:	750,065.00 usft	Longitude:	103° 31' 35.973 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,337.0 usft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/3/2016	7.01	59.88	47,900

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	354.27

Survey Program		Date 8/29/2016		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
170.0	19,989.0	Stryker MWD #1 (OH)	MWD	MWD - Standard



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 MD Reference: KB = 25' @ 3362.0usft (Precision 612)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	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
170.0	0.40	305.10	170.0	0.3	-0.5	0.24	0.24	0.00	-0.6	0.0
350.0	0.10	20.60	350.0	0.8	-0.9	0.22	-0.17	41.94	-0.5	1.2
535.0	0.40	58.30	535.0	1.3	-0.3	0.18	0.16	20.38	-0.4	1.3
721.0	0.60	81.00	721.0	1.8	1.2	0.15	0.11	12.20	-1.4	1.6
907.0	0.70	85.60	907.0	2.1	3.3	0.06	0.05	2.47	-3.4	1.8
1,028.0	1.00	130.40	1,028.0	1.4	4.8	0.58	0.25	37.02	-2.7	4.2
1,154.0	1.00	203.80	1,153.9	-0.3	5.2	0.95	0.00	58.25	1.9	4.9
1,340.0	2.70	242.40	1,339.9	-3.8	0.7	1.08	0.91	20.75	0.6	3.5
1,527.0	3.10	234.50	1,526.6	-8.8	-7.4	0.30	0.21	-4.22	-3.8	3.1
1,713.0	5.50	241.20	1,712.1	-16.0	-19.3	1.32	1.29	3.60	-8.3	3.4
1,899.0	5.50	240.40	1,897.2	-24.7	-34.8	0.04	0.00	-0.43	-13.5	2.3
2,086.0	5.80	241.80	2,083.3	-33.6	-50.9	0.18	0.16	0.75	-15.5	1.4
2,273.0	5.70	223.60	2,269.4	-44.8	-65.7	0.97	-0.05	-9.73	-14.3	-2.0
2,459.0	5.50	227.80	2,454.5	-57.4	-78.6	0.25	-0.11	2.26	-12.5	2.8
2,645.0	5.80	228.30	2,639.6	-69.7	-92.3	0.16	0.16	0.27	-10.9	5.9
2,833.0	6.50	242.00	2,826.5	-81.0	-108.8	0.86	0.37	7.29	-8.7	8.6
3,019.0	5.50	244.90	3,011.5	-89.7	-126.1	0.56	-0.54	1.56	-7.7	6.7
3,205.0	5.20	237.60	3,196.7	-98.0	-141.3	0.40	-0.16	-3.92	-5.6	4.1
3,392.0	5.60	234.00	3,382.9	-107.9	-155.8	0.28	0.21	-1.93	-3.2	4.2
3,579.0	6.80	235.40	3,568.8	-119.6	-172.3	0.65	0.64	0.75	-3.0	4.9
3,765.0	6.10	236.90	3,753.6	-131.2	-189.7	0.39	-0.38	0.81	-3.6	5.2
3,952.0	4.70	235.40	3,939.8	-141.0	-204.3	0.75	-0.75	-0.80	-1.0	5.2
4,139.0	5.60	240.20	4,126.0	-149.9	-218.5	0.53	0.48	2.57	3.0	4.7
4,326.0	5.90	242.00	4,312.1	-158.9	-234.9	0.19	0.16	0.96	4.6	2.9
4,512.0	5.30	231.10	4,497.2	-168.8	-250.1	0.66	-0.32	-5.86	6.1	3.9
4,697.0	7.00	229.80	4,681.1	-181.5	-265.3	0.92	0.92	-0.70	6.1	6.2



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MD Reference: KB = 25' @ 3362.0usft (Precision 612)
North Reference: Grid
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Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
4,884.0	6.30	218.60	4,866.9	-196.8	-280.4	0.79	-0.37	-5.99	2.6	11.3	
5,070.0	8.10	236.90	5,051.4	-212.0	-297.8	1.56	0.97	9.84	3.4	13.0	
5,257.0	6.90	238.30	5,236.8	-225.1	-318.4	0.65	-0.64	0.75	-0.5	12.7	
5,444.0	6.20	239.80	5,422.6	-236.0	-336.7	0.39	-0.37	0.80	-1.2	11.8	
5,630.0	6.80	241.70	5,607.4	-246.3	-355.0	0.34	0.32	1.02	-1.8	10.4	
5,817.0	5.60	241.60	5,793.3	-255.9	-372.8	0.64	-0.64	-0.05	-1.8	8.6	
6,004.0	7.10	238.10	5,979.1	-266.3	-390.7	0.83	0.80	-1.87	-2.7	7.4	
6,190.0	6.30	236.90	6,163.9	-278.0	-409.0	0.44	-0.43	-0.65	-4.4	7.0	
6,376.0	5.90	239.20	6,348.8	-288.5	-425.7	0.25	-0.22	1.24	-3.7	6.7	
6,561.0	5.20	237.60	6,532.9	-297.8	-441.0	0.39	-0.38	-0.86	-1.7	5.9	
6,747.0	6.90	239.10	6,717.9	-308.1	-457.7	0.92	0.91	0.81	-1.0	5.3	
6,935.0	6.60	241.10	6,904.6	-319.1	-476.8	0.20	-0.16	1.06	-2.6	4.1	
7,121.0	6.10	238.40	7,089.4	-329.4	-494.6	0.31	-0.27	-1.45	-3.1	2.9	
7,309.0	5.20	237.70	7,276.5	-339.2	-510.3	0.48	-0.48	-0.37	-1.3	2.3	
7,496.0	3.60	241.20	7,463.0	-346.6	-522.6	0.87	-0.86	1.87	2.7	1.5	
7,682.0	2.90	240.10	7,648.7	-351.7	-531.8	0.38	-0.38	-0.59	4.3	0.7	
7,868.0	1.50	217.10	7,834.5	-356.0	-537.4	0.88	-0.75	-12.37	2.7	2.5	
8,054.0	0.30	233.10	8,020.5	-358.3	-539.2	0.65	-0.65	8.60	1.2	2.4	
8,239.0	0.70	200.10	8,205.5	-359.6	-540.0	0.26	0.22	-17.84	-1.8	2.4	
8,428.0	0.80	170.00	8,394.5	-362.0	-540.2	0.21	0.05	-15.93	-5.1	0.6	
8,614.0	1.20	140.20	8,580.5	-364.8	-538.7	0.35	0.22	-16.02	-7.8	-2.7	
8,800.0	0.70	328.10	8,766.5	-365.3	-538.0	1.02	-0.27	-92.53	8.8	1.3	
8,988.0	3.50	250.30	8,954.3	-366.3	-544.1	1.82	1.49	-41.38	-5.4	7.8	
9,175.0	1.80	214.80	9,141.1	-370.6	-551.1	1.22	-0.91	-18.98	-16.5	-0.1	
9,362.0	1.00	3.50	9,328.1	-371.4	-552.7	1.45	-0.43	79.52	14.9	10.2	
9,549.0	0.10	348.50	9,515.1	-369.6	-552.6	0.48	-0.48	-8.02	10.1	13.3	
9,735.0	1.30	137.00	9,701.1	-371.0	-551.2	0.75	0.65	79.84	-3.6	-16.5	



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9,921.0	0.70	45.90	9,887.1	-371.7	-549.0	0.80	-0.32	-48.98	15.5	-5.4	
10,108.0	0.60	301.70	10,074.1	-370.4	-549.0	0.55	-0.05	-55.72	0.7	15.2	
10,296.0	1.80	342.60	10,262.0	-367.1	-550.7	0.75	0.64	21.76	6.8	11.7	
10,483.0	0.60	68.80	10,449.0	-363.9	-550.7	0.99	-0.64	46.10	10.9	-3.1	
10,671.0	0.40	43.50	10,637.0	-363.1	-549.3	0.16	-0.11	-13.46	9.6	1.4	
10,858.0	1.20	319.30	10,824.0	-361.1	-550.1	0.66	0.43	-45.03	-2.5	9.1	
11,046.0	1.30	273.30	11,011.9	-359.5	-553.5	0.52	0.05	-24.47	-11.8	3.1	
11,232.0	0.10	355.70	11,197.9	-359.2	-555.6	0.69	-0.65	44.30	1.1	14.2	
11,421.0	1.60	314.20	11,386.9	-357.2	-557.5	0.81	0.79	-21.96	-11.3	11.2	
11,608.0	0.10	221.30	11,573.8	-355.5	-559.5	0.86	-0.80	-49.68	-10.7	-14.5	
11,794.0	1.60	274.30	11,759.8	-355.5	-562.2	0.83	0.81	28.49	-20.7	-0.1	
11,858.0	1.50	273.80	11,823.8	-355.4	-563.9	0.16	-0.16	-0.78	-22.4	-0.3	
12,002.0	2.00	279.10	11,967.7	-354.8	-568.3	0.36	0.35	3.68	-26.7	2.0	
12,096.0	1.70	280.00	12,061.7	-354.3	-571.3	0.32	-0.32	0.96	-29.7	2.4	
12,190.0	1.60	280.10	12,155.6	-353.9	-574.0	0.11	-0.11	0.11	-32.4	2.5	
12,237.0	5.10	324.80	12,202.6	-352.0	-575.8	8.76	7.45	95.11	-22.8	25.5	
12,284.0	10.70	330.50	12,249.1	-346.5	-579.2	12.02	11.91	12.13	-20.6	29.8	
12,331.0	17.10	346.20	12,294.7	-336.0	-583.0	15.69	13.62	33.40	-11.6	35.7	
12,378.0	21.90	357.60	12,339.0	-320.5	-585.0	12.99	10.21	24.26	-4.0	35.8	
12,425.0	28.40	351.00	12,381.5	-300.7	-587.1	15.04	13.83	-14.04	-6.3	33.0	
12,471.0	37.20	348.60	12,420.2	-276.2	-591.6	19.33	19.13	-5.22	-7.1	32.0	
12,518.0	44.00	351.10	12,455.8	-246.1	-596.9	14.87	14.47	5.32	-6.8	31.2	
12,565.0	52.00	349.60	12,487.3	-211.7	-602.8	17.18	17.02	-3.19	-8.8	29.6	
12,612.0	59.60	347.70	12,513.7	-173.6	-610.5	16.51	16.17	-4.04	-11.9	29.0	
12,658.0	63.30	347.80	12,535.7	-134.2	-619.0	8.05	8.04	0.22	-13.7	29.1	
12,705.0	67.40	349.70	12,555.2	-92.3	-627.4	9.47	8.72	4.04	-13.0	28.6	



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12,719.8	69.60	349.41	12,560.7	-78.7	-629.9	15.00	14.89	-1.97	-12.7	28.2
HL Crossing, MD:12719.8", TVD:12560.7", N/S:-78.7", E/W:-629.9", INC:69.60										
12,752.0	74.40	348.80	12,570.6	-48.7	-635.6	15.00	14.90	-1.89	-12.2	27.5
12,787.0	80.00	349.20	12,578.4	-15.2	-642.2	16.04	16.00	1.14	-11.7	26.9
12,834.0	83.90	350.10	12,585.0	30.6	-650.5	8.51	8.30	1.91	-10.3	25.5
12,880.0	85.10	351.60	12,589.4	75.8	-657.8	4.16	2.61	3.26	-6.5	23.3
12,927.0	88.10	355.20	12,592.1	122.4	-663.2	9.96	6.38	7.66	-3.7	20.3
12,973.0	92.00	359.30	12,592.1	168.3	-665.4	12.30	8.48	8.91	-3.8	15.7
13,066.0	93.30	358.80	12,587.8	261.2	-666.9	1.50	1.40	-0.54	-7.8	8.0
13,161.0	90.10	0.80	12,585.0	356.1	-667.3	3.97	-3.37	2.11	-10.4	5.0
13,255.0	89.90	0.20	12,585.0	450.1	-666.4	0.67	-0.21	-0.64	-10.2	3.4
13,348.0	90.40	358.90	12,584.7	543.1	-667.2	1.50	0.54	-1.40	-10.2	3.4
13,442.0	90.10	359.20	12,584.3	637.1	-668.7	0.45	-0.32	0.32	-10.4	4.2
13,536.0	89.00	359.00	12,585.1	731.1	-670.2	1.19	-1.17	-0.21	-9.5	4.9
13,631.0	89.50	359.40	12,586.3	826.1	-671.5	0.67	0.53	0.42	-8.1	5.4
13,724.0	90.10	358.60	12,586.6	919.1	-673.2	1.08	0.65	-0.86	-7.5	6.3
13,817.0	90.20	0.70	12,586.4	1,012.1	-673.7	2.26	0.11	2.26	-7.6	6.1
13,911.0	91.30	1.50	12,585.2	1,106.0	-671.9	1.45	1.17	0.85	-8.6	3.5
14,004.0	89.10	1.00	12,584.8	1,199.0	-669.9	2.43	-2.37	-0.54	-8.7	0.7
14,097.0	89.80	1.60	12,585.7	1,292.0	-667.8	0.99	0.75	0.65	-7.6	-2.1
14,191.0	90.30	0.70	12,585.7	1,386.0	-665.9	1.10	0.53	-0.96	-7.5	-4.8
14,284.0	91.20	1.10	12,584.4	1,478.9	-664.4	1.06	0.97	0.43	-8.5	-7.0
14,378.0	89.90	0.30	12,583.5	1,572.9	-663.3	1.62	-1.38	-0.85	-9.3	-9.0
14,471.0	90.50	1.70	12,583.2	1,665.9	-661.7	1.64	0.65	1.51	-9.4	-11.3
14,565.0	89.10	0.90	12,583.5	1,759.9	-659.5	1.72	-1.49	-0.85	-8.9	-14.2
14,657.0	89.80	0.30	12,584.4	1,851.9	-658.6	1.00	0.76	-0.65	-7.8	-16.0
14,750.0	90.60	0.10	12,584.1	1,944.9	-658.2	0.89	0.86	-0.22	-7.9	-17.1



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14,845.0	90.90	359.70	12,582.9	2,039.9	-658.4	0.53	0.32	-0.42	-9.2	-17.7
14,938.0	91.60	359.90	12,580.8	2,132.8	-658.7	0.78	0.75	0.22	-11.4	-18.1
15,031.0	90.60	359.50	12,579.0	2,225.8	-659.2	1.16	-1.08	-0.43	-13.3	-18.4
15,121.0	90.10	357.10	12,578.5	2,315.8	-661.9	2.72	-0.56	-2.67	-14.0	-16.4
15,215.0	89.10	355.50	12,579.1	2,409.6	-668.0	2.01	-1.06	-1.70	-13.4	-11.1
15,309.0	90.60	357.40	12,579.4	2,503.4	-673.8	2.58	1.60	2.02	-13.3	-6.1
15,402.0	89.10	359.30	12,579.6	2,596.3	-676.4	2.60	-1.61	2.04	-13.1	-4.2
15,495.0	89.10	0.80	12,581.1	2,689.3	-676.4	1.61	0.00	1.61	-11.8	-5.0
15,588.0	89.50	0.80	12,582.2	2,782.3	-675.1	0.43	0.43	0.00	-10.8	-7.1
15,682.0	91.10	2.70	12,581.7	2,876.2	-672.2	2.64	1.70	2.02	-11.4	-10.7
15,775.0	87.30	358.90	12,583.0	2,969.2	-670.9	5.78	-4.09	-4.09	-10.2	-12.8
15,869.0	89.90	359.30	12,585.3	3,063.1	-672.4	2.80	2.77	0.43	-8.0	-12.1
15,962.0	90.30	359.90	12,585.2	3,156.1	-673.0	0.78	0.43	0.65	-8.3	-12.2
16,055.0	90.70	1.00	12,584.4	3,249.1	-672.3	1.26	0.43	1.18	-9.2	-13.7
16,149.0	89.50	0.20	12,584.2	3,343.1	-671.3	1.53	-1.28	-0.85	-9.5	-15.5
16,242.0	90.60	359.70	12,584.1	3,436.1	-671.4	1.30	1.18	-0.54	-9.7	-16.1
16,335.0	89.80	358.90	12,583.8	3,529.1	-672.5	1.22	-0.86	-0.86	-10.1	-15.8
16,428.0	92.00	358.20	12,582.3	3,622.1	-674.9	2.48	2.37	-0.75	-11.7	-14.2
16,522.0	91.00	358.80	12,579.9	3,716.0	-677.3	1.24	-1.06	0.64	-14.2	-12.5
16,614.0	89.60	358.40	12,579.4	3,808.0	-679.6	1.58	-1.52	-0.43	-14.8	-11.0
16,708.0	90.80	358.90	12,579.1	3,901.9	-681.8	1.38	1.28	0.53	-15.3	-9.5
16,802.0	88.70	1.50	12,579.5	3,995.9	-681.5	3.56	-2.23	2.77	-15.0	-10.6
16,896.0	89.50	2.80	12,580.9	4,089.8	-677.9	1.62	0.85	1.38	-13.6	-14.9
16,989.0	89.20	0.30	12,582.0	4,182.8	-675.4	2.71	-0.32	-2.69	-12.7	-18.2
17,083.0	89.20	358.90	12,583.3	4,276.8	-676.1	1.49	0.00	-1.49	-11.5	-18.3
17,176.0	88.60	358.40	12,585.1	4,369.7	-678.3	0.84	-0.65	-0.54	-9.8	-16.9
17,269.0	91.30	359.60	12,585.2	4,462.7	-679.9	3.18	2.90	1.29	-9.8	-16.0



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Endurance 36 State Com
Well: #705H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 25' @ 3362.0usft (Precision 612)
MD Reference: KB = 25' @ 3362.0usft (Precision 612)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
17,363.0	91.70	0.40	12,582.7	4,556.7	-679.9	0.95	0.43	0.85	-12.4	-16.8
17,457.0	89.60	357.60	12,581.7	4,650.6	-681.5	3.72	-2.23	-2.98	-13.6	-15.9
17,551.0	88.50	356.60	12,583.2	4,744.5	-686.3	1.58	-1.17	-1.06	-12.1	-12.0
17,644.0	89.40	357.60	12,584.9	4,837.4	-691.0	1.45	0.97	1.08	-10.5	-8.0
17,739.0	91.50	359.90	12,584.2	4,932.3	-693.1	3.28	2.21	2.42	-11.4	-6.7
17,832.0	91.50	0.00	12,581.7	5,025.3	-693.2	0.11	0.00	0.11	-13.9	-7.4
17,925.0	89.70	359.90	12,580.8	5,118.3	-693.2	1.94	-1.94	-0.11	-15.0	-8.1
18,020.0	89.20	359.50	12,581.7	5,213.3	-693.7	0.67	-0.53	-0.42	-14.2	-8.4
18,112.0	88.90	359.30	12,583.2	5,305.3	-694.7	0.39	-0.33	-0.22	-12.7	-8.2
18,205.0	90.90	1.40	12,583.4	5,398.3	-694.1	3.12	2.15	2.26	-12.7	-9.5
18,299.0	89.40	1.70	12,583.1	5,492.2	-691.6	1.63	-1.60	0.32	-13.0	-12.8
18,393.0	87.60	0.40	12,585.6	5,586.2	-689.9	2.36	-1.91	-1.38	-10.7	-15.3
18,487.0	88.10	1.30	12,589.1	5,680.1	-688.5	1.09	0.53	0.96	-7.3	-17.5
18,580.0	88.20	358.50	12,592.1	5,773.0	-688.6	3.01	0.11	-3.01	-4.4	-18.1
18,674.0	88.50	358.80	12,594.8	5,867.0	-690.8	0.45	0.32	0.32	-1.8	-16.6
18,767.0	91.30	358.70	12,595.0	5,959.9	-692.9	3.01	3.01	-0.11	-1.7	-15.4
18,861.0	90.90	358.90	12,593.2	6,053.9	-694.8	0.48	-0.43	0.21	-3.6	-14.2
18,954.0	89.50	357.30	12,592.8	6,146.8	-697.9	2.29	-1.51	-1.72	-4.0	-11.8
19,047.0	90.90	358.80	12,592.5	6,239.8	-701.1	2.21	1.51	1.61	-4.5	-9.4
19,140.0	90.90	359.20	12,591.1	6,332.8	-702.7	0.43	0.00	0.43	-6.0	-8.6
19,233.0	89.70	358.20	12,590.6	6,425.7	-704.8	1.68	-1.29	-1.08	-6.6	-7.2
19,327.0	88.20	358.00	12,592.3	6,519.7	-707.9	1.61	-1.60	-0.21	-5.0	-4.9
19,421.0	91.20	0.30	12,592.8	6,613.6	-709.3	4.02	3.19	2.45	-4.6	-4.3
19,514.0	89.30	359.20	12,592.4	6,706.6	-709.7	2.36	-2.04	-1.18	-5.1	-4.6
19,607.0	91.30	359.40	12,591.9	6,799.6	-710.9	2.16	2.15	0.22	-5.7	-4.2
19,700.0	92.20	0.10	12,589.1	6,892.6	-711.3	1.23	0.97	0.75	-8.7	-4.6
19,793.0	92.20	0.10	12,585.5	6,985.5	-711.1	0.00	0.00	0.00	-12.3	-5.5



EOG Resources, Inc.

PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25' @ 3362.0usft (Precision 612)
Site:	Endurance 36 State Com	MD Reference:	KB = 25' @ 3362.0usft (Precision 612)
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
19,858.7	90.36	359.96	12,584.0	7,051.2	-711.1	2.80	-2.80	-0.22	-13.9	-6.1	
HL Crossing, MD:19858.7', TVD:12584.0', N/S:7051.2', E/W:-711.1', INC:90.36											
19,886.0	89.60	359.90	12,584.0	7,078.5	-711.1	2.80	-2.80	-0.21	-13.9	-6.3	
19,942.0	89.90	0.00	12,584.3	7,134.5	-711.2	0.56	0.54	0.18	-13.7	-6.7	
Last MWD Survey											
19,989.0	89.90	0.00	12,584.4	7,181.5	-711.2	0.00	0.00	0.00	-30.5	-15.2	
Projection To Bit											

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
12,719.8	12,560.7	-78.7	-629.9	HL Crossing, MD:12719.8', TVD:12560.7', N/S:-78.7', E/W:-629.9', INC:69.60	
19,858.7	12,584.0	7,051.2	-711.1	HL Crossing, MD:19858.7', TVD:12584.0', N/S:7051.2', E/W:-711.1', INC:90.36	
19,942.0	12,584.3	7,134.5	-711.2	Last MWD Survey	
19,989.0	12,584.4	7,181.5	-711.2	Projection To Bit	

Checked By: _____	Approved By: _____	Date: _____
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