



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Condor 32 State Com

#718H

OH

Design: OH

Midland PVA

18 March, 2019

HOBBS OCD
JUN 17 2019
RECEIVED



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Condor 32 State Com Well: #718H Wellbore: OH Design: OH		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:		Well #718H KB = 25' @ 3354.0usft KB = 25' @ 3354.0usft 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 Condor 32 State Com					
Site Position: From: Map Position Uncertainty: 0.0 usft		Northing: 394,018.00 usft Easting: 801,320.00 usft Slot Radius: 13-3/16 "		Latitude: 32° 4' 48.616 N Longitude: 103° 29' 38.138 W Grid Convergence: 0.45 °	
Well #718H					
Well Position +N-S 0.0 usft +E-W 0.0 usft Position Uncertainty 0.0 usft		Northing: 394,161.00 usft Easting: 799,935.00 usft Wellhead Elevation: usft		Latitude: 32° 4' 51.158 N Longitude: 103° 29' 54.222 W Ground Level: 3,329.0 usft	
Wellbore OH					
Magnetics					
Model Name IGRF2015		Sample Date 11/14/2018		Declination (°) 6.78 Dip Angle (°) 59.92 Field Strength (nT) 47,716.50802122	
Design OH					
Audit Notes:					
Version: 1.0		Phase: ACTUAL		Tie On Depth: 0.0	
Vertical Section:		Depth From (TVD) (usft) 0.0 +N-S (usft) 0.0 +E-W (usft) 0.0		Direction (°) 2.85	
Survey Program					
From (usft) 198.0		To (usft) 20,210.0		Date 3/18/2019	
Survey (Wellbore) Driftech MWD (OH)		Tool Name MWD		Description OWSG MWD - Standard	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #718H
Project:	Lee County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3354.0usft
Site:	Condor 32 State Com	MD Reference:	KB = 25' @ 3354.0usft
Well:	#718H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	NIS (usft)	ESW (usft)	DLog (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
198.0	1.00	97.90	198.0	-0.2	1.7	0.51	0.51	0.00	0.0	0.0	0.0
325.0	1.00	104.70	325.0	-0.7	3.9	0.09	0.00	5.35	0.0	0.0	0.0
513.0	1.00	116.90	512.9	-1.6	6.9	0.11	0.00	6.49	0.0	0.0	0.0
697.0	0.70	129.00	696.9	-3.3	9.2	0.19	-0.16	6.58	0.0	0.0	0.0
780.0	0.90	127.90	789.9	-4.1	10.3	0.22	0.22	-1.18	0.0	0.0	0.0
884.0	0.80	128.40	883.9	-4.9	11.4	0.11	-0.11	0.53	0.0	0.0	0.0
1,059.0	0.70	165.60	1,058.9	-6.7	12.6	0.28	-0.08	21.26	-0.1	-0.7	-0.7
1,153.0	0.60	162.70	1,152.9	-7.8	12.9	0.11	-0.11	-3.09	0.0	-1.5	-1.5
1,247.0	0.70	166.50	1,246.9	-8.8	13.1	0.12	0.11	4.04	-0.2	-2.3	-2.3
1,340.0	0.70	149.90	1,339.9	-9.8	13.6	0.22	0.00	-17.85	0.6	-2.9	-2.9
1,434.0	0.70	169.30	1,433.9	-10.9	14.0	0.25	0.00	20.64	-0.5	-3.6	-3.6
1,527.0	0.60	150.90	1,526.9	-11.9	14.3	0.25	-0.11	-19.78	0.8	-4.2	-4.2
1,622.0	0.40	184.30	1,621.9	-12.6	14.6	0.24	-0.21	14.11	0.1	-5.0	-5.0
1,715.0	0.40	177.90	1,714.9	-13.3	14.7	0.10	0.00	14.62	-0.9	-5.8	-5.8
1,809.0	0.30	203.30	1,808.8	-13.8	14.8	0.19	-0.11	27.02	-3.5	-5.9	-5.9
1,903.0	0.50	210.20	1,902.8	-14.4	14.3	0.22	0.21	7.34	-4.6	-6.7	-6.7
1,997.0	0.30	181.10	1,996.8	-15.0	14.1	0.30	-0.21	-30.96	-0.8	-8.4	-8.4
2,090.0	0.30	194.30	2,089.8	-15.5	14.1	0.07	0.00	14.19	-2.7	-10.1	-10.1
2,277.0	0.30	46.80	2,276.8	-15.6	14.3	0.31	0.00	-78.88	8.0	9.4	9.4
2,370.0	0.70	58.90	2,369.8	-15.2	15.0	0.44	0.43	13.01	9.5	8.8	8.8
2,463.0	1.10	52.90	2,462.8	-14.3	16.2	0.44	0.43	-6.45	7.3	11.0	11.0
2,557.0	1.70	60.00	2,556.8	-13.1	18.1	0.66	0.64	7.55	6.8	11.3	11.3
2,651.0	1.90	56.80	2,650.8	-11.5	20.6	0.24	0.21	-3.40	3.7	12.8	12.8
2,744.0	2.10	60.10	2,743.7	-9.8	23.4	0.25	0.22	3.55	1.6	13.9	13.9
2,837.0	3.50	98.10	2,836.8	-9.4	27.7	2.42	1.51	40.86	6.9	11.7	11.7
2,931.0	6.20	113.80	2,930.2	-11.8	35.1	3.17	2.87	16.70	5.7	11.3	11.3



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #716H
Project:	Lee County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3354.0usft
Site:	Condor 32 State Com	MD Reference:	KB = 25' @ 3354.0usft
Well:	#716H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Asd (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
3,024.0	7.20	119.90	3,022.6	-16.8	44.8	1.32	1.08	6.56	2.9	12.4
3,118.0	7.70	118.70	3,115.8	-22.7	55.4	0.56	0.53	-1.28	-0.3	14.3
3,211.0	8.60	111.60	3,207.9	-28.3	67.4	1.45	0.97	-7.63	-8.0	16.5
3,305.0	8.80	121.20	3,300.8	-34.6	80.0	1.56	0.21	10.21	-7.5	20.1
3,398.0	8.50	124.20	3,392.7	-42.1	91.8	0.58	-0.32	3.23	-10.8	21.9
3,491.0	8.30	131.20	3,484.8	-50.4	102.5	1.12	-0.22	7.53	-11.8	23.7
3,585.0	8.10	127.70	3,577.8	-58.9	112.9	0.57	-0.21	-3.72	-16.8	23.1
3,680.0	7.40	135.20	3,671.9	-67.4	122.5	1.29	-0.74	7.89	-16.4	25.1
3,773.0	6.90	152.80	3,764.2	-76.6	129.3	2.41	-0.54	16.92	-10.4	27.0
3,868.0	6.10	149.50	3,856.6	-85.8	134.3	0.95	-0.86	-3.55	-13.2	22.8
3,960.0	5.40	149.70	3,950.1	-93.9	139.1	0.74	-0.74	0.21	-13.1	19.6
4,054.0	4.90	127.90	4,043.8	-100.2	144.5	2.13	-0.53	-23.19	-17.7	12.2
4,147.0	5.70	121.10	4,138.4	-105.1	151.6	1.09	0.86	-7.31	-17.9	11.2
4,241.0	5.40	117.10	4,229.9	-109.5	159.5	0.52	-0.32	-4.26	-18.1	11.9
4,335.0	5.30	127.50	4,323.5	-114.1	166.9	1.04	-0.11	11.06	-14.5	16.2
4,428.0	4.70	133.30	4,416.2	-119.4	173.1	0.84	-0.85	6.24	-11.0	17.6
4,521.0	3.10	130.80	4,508.0	-123.6	177.8	1.73	-1.72	-2.69	-8.3	16.9
4,615.0	5.70	136.30	4,602.7	-128.7	182.9	2.80	2.77	5.85	-4.0	16.8
4,709.0	6.20	133.70	4,696.2	-135.5	189.8	0.60	0.53	-2.77	-4.8	15.9
4,803.0	5.50	131.60	4,789.7	-142.0	198.8	0.78	-0.74	-2.23	-4.9	15.3
4,897.0	8.40	141.30	4,883.0	-150.4	204.5	3.32	3.09	10.32	-3.9	14.8
4,990.0	10.80	142.50	4,974.7	-162.5	214.0	2.38	2.37	1.29	-9.3	13.0
5,084.0	9.40	141.30	5,067.3	-175.3	224.0	1.30	-1.28	-1.28	-16.3	10.8
5,177.0	8.30	141.00	5,159.2	-186.5	233.0	1.18	-1.18	-0.32	-21.0	8.9
5,271.0	7.30	139.80	5,252.3	-196.3	241.1	1.08	-1.08	-1.28	-24.2	6.7
5,364.0	7.20	139.20	5,344.5	-205.2	248.7	0.13	-0.11	-0.65	-28.4	4.9
5,458.0	7.40	136.70	5,437.8	-214.1	256.7	0.40	0.21	-2.66	-28.7	2.4



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #718H
Project:	Las County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3354.0usft
Site:	Cander 32 State Com	MD Reference:	KB = 25' @ 3354.0usft
Well:	#718H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Asi (azimuth) (°)	TVD (usft)	NW (usft)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,551.0	7.30	134.10	5,530.0	-222.6	265.1	0.37	-0.11	-2.80	-30.9	0.2
5,644.0	7.30	133.80	5,622.3	-230.8	273.6	0.04	0.00	-0.32	-32.9	-0.5
5,737.0	7.20	131.80	5,714.5	-238.7	282.2	0.29	-0.11	-2.15	-34.9	-2.1
5,832.0	6.60	130.50	5,808.8	-246.3	290.8	0.65	-0.63	-1.37	-36.2	-3.0
5,926.0	6.40	128.80	5,902.2	-253.1	299.0	0.30	-0.21	-1.81	-36.9	-3.9
6,019.0	6.30	126.10	5,994.7	-259.3	307.2	0.34	-0.11	-2.90	-37.2	-5.1
6,112.0	6.30	126.00	6,087.1	-265.3	315.4	0.01	0.00	-0.11	-37.6	-4.4
6,206.0	6.10	123.20	6,180.5	-271.1	323.8	0.39	-0.21	-2.98	-37.7	-5.3
6,299.0	5.50	120.10	6,273.1	-278.0	331.7	0.73	-0.65	-3.33	-37.1	-5.8
6,393.0	5.10	118.80	6,366.7	-280.3	339.3	0.44	-0.43	-1.38	-35.9	-4.7
6,487.0	5.00	118.80	6,460.3	-284.3	346.6	0.11	-0.11	0.00	-34.5	-2.7
6,579.0	4.80	118.10	6,552.0	-288.0	353.5	0.23	-0.22	-0.76	-32.9	-1.1
6,673.0	4.90	114.90	6,645.6	-291.6	360.6	0.31	0.11	-3.40	-31.1	-0.4
6,765.0	4.90	116.20	6,737.3	-295.0	367.7	0.12	0.00	1.41	-29.6	2.7
6,856.0	4.80	113.40	6,830.0	-298.3	374.8	0.28	-0.11	-3.01	-28.2	4.0
6,951.0	5.00	113.50	6,922.6	-301.4	382.1	0.22	0.22	0.11	-26.8	6.9
7,045.0	4.90	113.20	7,016.3	-304.6	389.5	0.11	-0.11	-0.32	-25.4	9.7
7,139.0	4.70	112.60	7,109.9	-307.7	396.8	0.22	-0.21	-0.64	-24.0	12.4
7,233.0	4.50	110.30	7,203.6	-310.5	403.8	0.29	-0.21	-2.45	-22.7	14.7
7,326.0	4.40	110.80	7,296.4	-313.0	410.6	0.12	-0.11	0.54	-20.5	18.2
7,419.0	4.30	109.50	7,389.1	-315.4	417.2	0.15	-0.11	-1.40	-18.9	21.2
7,512.0	4.20	119.80	7,481.8	-318.3	423.4	0.83	-0.11	11.08	-12.0	26.7
7,606.0	5.20	141.90	7,575.5	-323.3	429.0	2.18	1.06	23.51	1.2	28.6
7,700.0	4.60	144.70	7,669.2	-328.8	433.8	0.69	-0.64	2.98	4.1	28.2
7,794.0	3.30	146.00	7,763.0	-335.1	437.5	1.39	-1.38	1.38	7.7	23.6
7,886.0	2.70	152.50	7,854.8	-339.2	440.0	0.75	-0.65	7.07	12.2	20.2
7,980.0	2.70	151.80	7,948.7	-343.1	442.1	0.04	0.00	-0.74	11.6	18.7



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #718H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3354.0usft
Site:	Condor 32 State Com	MD Reference:	KB = 25' @ 3354.0usft
Well:	#718H	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)	
8,073.0	2.40	153.30	8,041.6	-346.8	444.0	0.33	-0.32	1.81	9.1	18.0	
8,166.0	2.20	151.00	8,134.6	-350.1	445.7	0.24	-0.22	-2.47	4.6	18.3	
8,260.0	2.20	156.20	8,228.5	-353.3	447.3	0.21	0.00	5.53	2.7	17.9	
8,354.0	2.00	154.50	8,322.4	-356.4	448.8	0.22	-0.21	-1.81	-1.3	18.0	
8,447.0	1.80	163.40	8,415.4	-359.3	449.9	0.38	-0.22	9.57	-1.6	18.2	
8,541.0	1.80	164.10	8,509.3	-362.1	450.7	0.02	0.00	0.74	-4.3	18.2	
8,635.0	2.00	162.70	8,603.3	-365.1	451.6	0.22	0.21	-1.49	-7.9	18.1	
8,728.0	1.70	168.50	8,696.2	-368.0	452.4	0.36	-0.32	6.24	-9.0	18.9	
8,821.0	1.60	163.30	8,789.2	-370.6	453.0	0.19	-0.11	-5.59	-13.3	17.9	
8,915.0	1.40	174.70	8,883.2	-373.0	453.5	0.36	-0.21	12.13	-12.0	20.5	
9,009.0	1.30	186.60	8,977.1	-375.2	453.5	0.32	-0.11	12.66	-9.7	22.7	
9,103.0	1.30	189.80	9,071.1	-377.3	453.0	0.32	0.00	14.04	-6.3	24.6	
9,196.0	1.20	210.50	9,164.1	-379.1	452.1	0.27	-0.11	11.51	-3.7	25.5	
9,289.0	1.20	222.20	9,257.1	-380.7	451.0	0.26	0.00	12.58	-0.3	25.9	
9,383.0	1.30	223.00	9,351.0	-382.2	449.6	0.11	0.11	0.85	-2.0	26.0	
9,476.0	1.20	242.00	9,444.0	-383.4	448.0	0.46	-0.11	20.43	4.6	25.6	
9,569.0	1.50	259.80	9,537.0	-384.1	446.0	0.53	0.32	19.14	10.0	23.2	
9,661.0	1.70	273.30	9,629.0	-384.2	443.4	0.46	0.22	14.67	12.6	20.5	
9,755.0	2.10	279.10	9,722.9	-383.9	440.3	0.47	0.43	6.17	11.5	19.3	
9,849.0	2.10	275.90	9,816.8	-383.4	436.9	0.12	0.00	-3.40	7.0	19.8	
9,942.0	0.80	259.60	9,909.8	-383.4	434.6	1.45	-1.40	-17.53	-1.1	20.5	
10,036.0	1.50	282.70	10,003.8	-383.2	432.7	0.88	0.74	24.57	5.2	19.6	
10,129.0	1.80	259.50	10,096.8	-383.2	430.1	0.76	0.32	-24.95	-5.5	19.5	
10,223.0	2.80	275.20	10,190.7	-383.3	426.4	1.25	1.06	16.70	-3.8	20.7	
10,316.0	1.90	278.90	10,283.6	-382.8	422.6	0.98	-0.97	3.96	-6.2	21.1	
10,409.0	1.80	287.80	10,376.6	-382.1	419.7	0.33	-0.11	9.57	-5.9	22.0	
10,502.0	1.60	305.00	10,469.5	-381.0	417.2	0.59	-0.22	18.49	-1.8	23.2	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #718H
Project:	Lee County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3354.0usft
Site:	Condor 32 State Com	MD Reference:	KB = 25' @ 3354.0usft
Well:	#718H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,595.0	0.80	332.20	10,562.5	-379.8	415.8	1.03	-0.86	29.25	7.2	22.0
10,689.0	1.00	88.90	10,656.5	-379.0	416.4	1.63	0.21	124.15	15.9	-15.7
10,781.0	1.60	67.10	10,748.5	-378.5	418.3	0.83	0.65	-23.70	18.6	-8.0
10,875.0	2.40	71.80	10,842.4	-377.4	421.4	0.87	0.85	5.00	14.5	-10.4
10,969.0	2.70	70.70	10,936.3	-378.1	425.4	0.32	0.32	-1.17	10.6	-10.1
11,063.0	3.10	64.00	11,030.2	-374.2	429.8	0.66	0.43	-7.13	6.9	-9.1
11,157.0	2.30	60.10	11,124.1	-372.2	433.7	0.87	-0.85	-4.15	3.1	-8.8
11,249.0	2.20	61.30	11,218.0	-370.4	436.8	0.12	-0.11	1.30	-0.7	-8.8
11,343.0	3.10	30.60	11,309.9	-367.3	439.7	1.75	0.96	-32.66	-0.2	-8.8
11,438.0	3.80	19.70	11,402.7	-362.3	442.0	1.03	0.75	-11.72	-4.1	-9.2
11,530.0	2.80	20.80	11,496.6	-357.3	443.8	1.28	-1.28	1.17	-8.5	-9.1
11,624.0	1.00	278.80	11,590.6	-355.2	443.8	3.16	-1.70	-108.51	10.4	-8.5
11,718.0	3.00	235.40	11,684.5	-356.5	440.9	2.53	2.13	-46.17	11.1	-0.3
11,806.0	3.30	227.30	11,872.2	-363.0	432.9	0.29	0.16	-4.31	0.7	0.6
11,899.0	2.60	234.00	11,965.1	-368.0	429.2	0.84	-0.75	7.20	-4.0	0.8
12,104.0	1.80	220.70	12,070.0	-368.7	426.2	0.90	-0.76	-12.67	-8.0	-0.7
12,188.0	2.60	323.50	12,164.0	-368.1	424.0	3.70	0.85	109.36	-0.7	9.4
12,245.0	13.10	359.30	12,210.5	-361.9	423.3	23.60	22.34	76.17	0.0	8.7
12,292.0	21.10	4.70	12,255.4	-348.1	423.9	17.34	17.02	11.49	-7.3	8.7
12,339.0	23.50	6.30	12,298.9	-330.3	425.7	5.27	5.11	3.40	-15.1	7.9
12,386.0	25.40	5.90	12,341.6	-311.0	427.7	4.06	4.04	-0.85	-20.2	6.0
12,433.0	26.40	5.90	12,383.4	-289.5	429.9	8.51	8.51	0.00	-22.9	3.7
12,479.0	33.90	4.10	12,422.5	-265.4	432.0	9.89	9.78	-3.91	-24.3	0.8
12,526.0	42.30	4.50	12,459.5	-236.6	434.2	17.88	17.87	0.85	-26.1	-1.5
12,573.0	50.80	3.70	12,491.8	-202.5	436.8	18.13	18.09	-1.70	-29.9	-4.4
12,620.0	54.60	3.50	12,520.2	-165.2	439.0	8.09	8.09	-0.43	-33.8	-7.1
12,667.0	56.50	2.80	12,546.8	-126.5	441.1	4.16	4.04	-1.28	-35.1	-10.0



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Conder 32 State Corn
 Well: #718H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #718H
 TVD Reference: KB = 25' @ 3354.0usft
 MD Reference: KB = 25' @ 3354.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Buid (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,714.0	60.70	2.00	12,571.3	-86.5	442.8	9.08	8.94	-1.91	-33.8	-12.5
12,781.0	65.30	2.40	12,592.6	-44.6	444.5	9.82	9.79	0.85	-31.2	-14.5
12,808.0	70.00	2.40	12,610.5	-1.2	446.3	10.00	10.00	0.00	-27.5	-16.9
12,854.0	73.60	1.40	12,624.9	42.4	447.7	8.09	7.83	-2.17	-22.4	-19.0
12,901.0	75.40	1.10	12,637.4	87.7	449.7	3.88	3.83	-0.64	-14.7	-20.5
12,948.0	78.00	359.30	12,648.2	133.5	448.9	6.87	5.53	-3.83	-4.5	-21.0
13,012.0	88.70	358.20	12,656.8	196.8	447.5	13.70	13.59	-1.72	4.5	-20.1
13,135.0	91.80	356.70	12,658.4	319.6	442.0	4.32	4.15	-1.22	7.0	-15.6
13,228.0	89.60	358.70	12,657.2	412.5	438.3	3.20	-2.37	2.15	6.6	-12.7
13,321.0	92.50	1.20	12,655.5	505.5	438.2	4.12	3.12	2.69	5.7	-13.3
13,420.0	91.80	0.20	12,652.0	604.4	439.4	1.38	-0.91	-1.01	2.9	-15.4
13,514.0	88.50	358.70	12,651.9	698.4	438.5	3.66	-3.30	-1.60	3.6	-15.2
13,608.0	91.30	0.30	12,652.1	792.4	437.7	3.43	2.98	1.70	4.5	-15.2
13,702.0	91.10	359.90	12,650.1	886.4	437.8	0.48	-0.21	-0.43	3.3	-16.1
13,785.0	90.50	358.80	12,648.8	979.4	436.8	1.35	-0.65	-1.18	2.8	-15.9
13,888.0	91.20	358.70	12,647.4	1,072.3	434.8	0.76	0.75	-0.11	2.1	-14.6
13,982.0	89.30	357.30	12,647.0	1,166.3	431.5	2.51	-2.02	-1.49	2.5	-12.1
14,076.0	91.50	358.10	12,646.3	1,260.2	427.7	2.49	2.34	0.85	2.6	-9.1
14,169.0	90.40	357.90	12,644.8	1,353.1	424.5	1.20	-1.18	-0.22	1.8	-8.6
14,262.0	90.80	357.80	12,643.8	1,446.0	421.0	0.44	0.43	-0.11	1.6	-3.9
14,355.0	89.20	356.80	12,643.8	1,538.9	416.6	2.03	-1.72	-1.08	2.4	-0.3
14,449.0	90.70	356.60	12,643.9	1,632.8	411.2	1.61	1.60	-0.21	3.3	4.4
14,543.0	88.60	357.60	12,644.5	1,726.6	406.4	2.47	-2.23	1.06	4.6	8.3
14,636.0	88.50	357.30	12,646.8	1,819.5	402.3	0.34	-0.11	-0.32	8.0	11.7
14,730.0	88.30	359.60	12,648.6	1,913.5	399.7	2.59	0.85	2.45	10.7	13.5
14,823.0	92.00	0.10	12,647.6	2,006.4	399.5	2.95	2.90	0.54	10.5	13.0
14,916.0	89.80	0.30	12,646.1	2,099.4	399.8	2.38	-2.37	0.22	9.9	11.9



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #718H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3354.0usft
Site:	Conder 32 State Com	MD Reference:	KB = 25' @ 3354.0usft
Well:	#718H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	NBS (usft)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
15,009.0	89.10	1.60	12,647.0	2,182.4	401.4	1.59	-0.75	1.40	11.7	9.6	
15,102.0	89.70	1.80	12,648.0	2,285.4	404.1	0.88	0.65	0.22	13.5	6.0	
15,185.0	88.80	0.80	12,649.2	2,378.3	406.2	1.45	-0.97	-1.08	15.6	3.2	
15,288.0	92.90	1.60	12,647.8	2,471.3	408.2	4.49	4.41	0.86	15.1	0.4	
15,382.0	92.60	0.90	12,643.3	2,565.1	410.2	0.81	-0.32	-0.74	11.4	-2.4	
15,474.0	90.90	0.50	12,640.5	2,657.1	411.4	1.90	-1.85	-0.43	9.5	-4.3	
15,568.0	92.90	1.20	12,637.4	2,751.0	412.7	2.25	2.13	0.74	7.2	-8.4	
15,663.0	91.90	359.70	12,633.4	2,845.9	413.5	1.90	-1.05	-1.58	4.1	-8.0	
15,756.0	92.90	359.70	12,628.5	2,938.9	413.0	1.08	1.08	0.00	1.1	-8.2	
15,850.0	89.30	0.90	12,627.7	3,032.8	413.5	4.04	-3.83	1.28	0.2	-8.5	
15,943.0	89.30	0.90	12,628.9	3,125.8	415.0	0.00	0.00	0.00	2.4	-11.7	
16,037.0	90.20	0.70	12,629.3	3,219.8	416.3	0.88	0.96	-0.21	3.8	-13.8	
16,131.0	90.70	1.30	12,628.5	3,313.8	417.9	0.83	0.53	0.64	4.1	-16.2	
16,224.0	90.00	1.80	12,628.0	3,406.7	420.4	0.92	-0.75	0.54	4.5	-19.5	
16,318.0	89.00	359.20	12,628.8	3,500.7	421.2	2.96	-1.06	-2.77	6.3	-21.1	
16,412.0	87.80	358.40	12,631.4	3,594.7	419.3	1.53	-1.28	-0.85	9.9	-19.9	
16,506.0	90.60	0.10	12,632.7	3,688.6	418.0	3.48	2.98	1.81	12.2	-19.5	
16,599.0	88.50	357.70	12,633.5	3,781.6	416.3	3.43	-2.26	-2.58	14.0	-18.4	
16,692.0	87.30	357.90	12,636.9	3,874.5	412.7	1.31	-1.29	0.22	18.3	-15.7	
16,786.0	89.70	358.30	12,639.3	3,968.4	409.6	2.59	2.55	0.43	21.8	-13.3	
16,880.0	91.70	358.90	12,638.2	4,062.3	407.3	2.22	2.13	0.64	21.7	-11.8	
16,973.0	90.50	358.30	12,636.4	4,155.3	405.0	1.44	-1.29	-0.65	20.9	-10.3	
17,067.0	91.10	358.40	12,635.1	4,249.2	402.3	0.65	0.64	0.11	20.5	-8.4	
17,161.0	90.50	357.80	12,633.8	4,343.2	399.2	0.90	-0.64	-0.64	20.2	-8.0	
17,255.0	89.10	358.50	12,634.1	4,437.1	396.2	1.67	-1.49	0.74	21.6	-3.8	
17,349.0	89.00	357.20	12,635.6	4,531.0	392.8	1.39	-0.11	-1.38	24.2	-1.0	
17,443.0	90.60	357.80	12,636.0	4,624.9	388.5	1.82	1.70	0.64	25.5	2.3	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #716H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3354.0usft
Site:	Cander 32 State Corn	MD Reference:	KB = 25' @ 3354.0usft
Well:	#716H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	NIS (usft)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
17,536.0	90.10	0.40	12,635.4	4,717.9	387.1	2.85	-0.54	2.80	26.0	3.0	
17,629.0	89.10	0.10	12,636.1	4,810.9	387.5	1.12	-1.08	-0.32	27.7	1.8	
17,721.0	89.10	1.00	12,637.5	4,902.9	388.4	0.98	0.00	0.88	30.2	0.2	
17,815.0	88.90	359.90	12,639.1	4,998.9	389.1	1.19	-0.21	-1.17	32.9	-1.3	
17,908.0	89.10	359.40	12,640.8	5,089.9	388.5	0.58	0.22	-0.54	35.6	-1.5	
18,002.0	92.00	359.30	12,639.9	5,183.8	387.5	3.09	3.09	-0.11	35.8	-1.2	
18,096.0	93.20	359.90	12,635.6	5,277.7	388.8	1.43	1.28	0.84	32.8	-1.3	
18,189.0	94.10	0.20	12,629.7	5,370.6	388.9	1.02	0.97	0.32	27.7	-2.2	
18,283.0	93.70	0.60	12,623.3	5,464.3	387.5	0.80	-0.43	0.43	22.4	-3.6	
18,376.0	88.50	359.30	12,621.5	5,557.3	387.5	5.76	-5.59	-1.40	21.6	-4.3	
18,470.0	89.20	358.10	12,623.4	5,651.2	385.3	1.48	0.74	-1.28	24.6	-2.9	
18,563.0	89.70	357.20	12,624.3	5,744.2	381.5	1.11	0.54	-0.97	26.5	0.1	
18,656.0	89.50	356.00	12,624.9	5,839.0	375.9	1.28	-0.21	-1.26	28.3	4.9	
18,751.0	89.80	357.60	12,625.5	5,931.8	370.7	1.75	0.32	1.72	29.9	9.4	
18,844.0	88.30	359.70	12,627.1	6,024.8	368.5	2.77	-1.61	2.28	32.5	10.8	
18,938.0	88.50	0.80	12,629.7	6,118.7	368.9	1.19	0.21	1.17	38.2	9.6	
19,032.0	89.10	1.00	12,631.6	6,212.7	370.4	0.87	0.64	0.21	39.4	7.4	
19,125.0	90.10	1.10	12,632.3	6,305.7	372.1	1.08	1.08	0.11	41.1	4.9	
19,218.0	90.90	0.80	12,631.5	6,398.7	373.6	0.92	0.86	-0.32	41.4	2.6	
19,311.0	89.60	359.30	12,631.1	6,491.7	373.7	2.13	-1.40	-1.61	42.2	1.7	
19,404.0	90.60	359.80	12,630.9	6,584.7	372.7	1.10	1.08	0.22	43.1	1.9	
19,497.0	90.30	359.70	12,630.2	6,677.7	372.1	0.39	-0.32	0.22	43.5	1.8	
19,591.0	90.10	359.80	12,629.9	6,771.7	371.7	0.24	-0.21	0.11	44.3	1.5	
19,685.0	90.70	0.10	12,629.2	6,865.7	371.6	0.71	0.64	0.32	44.6	0.6	
19,779.0	88.80	359.60	12,629.6	6,959.7	371.4	2.09	-2.02	-0.53	46.3	0.2	
19,872.0	88.90	0.10	12,631.5	7,052.6	371.1	0.55	0.11	0.54	49.3	-0.3	
19,966.0	89.70	0.20	12,632.6	7,146.6	371.4	0.88	0.85	0.11	51.6	-1.3	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #718H
Project:	Lee County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3354.0usft
Site:	Condor 32 State Corn	MD Reference:	KB = 25' @ 3354.0usft
Well:	#718H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
20,059.0	91.60	2.40	12,631.6	7,236.6	373.5	3.13	2.04	2.37	51.7	-4.1
20,153.0	92.60	3.70	12,628.1	7,333.4	378.5	1.74	1.06	1.38	49.4	-9.9
20,210.0	92.60	3.70	12,625.5	7,390.2	382.1	0.00	0.00	0.00	47.5	-14.0

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,182.0	12,148.0	-368.6	424.4	KOP, MD:12182.0', TVD:12148.0', N/S:-368.6', E/W:424.4', INC:2.11
12,381.3	12,337.4	-313.0	427.5	FTP Crossing, MD:12381.3', TVD:12337.4', N/S:-313.0', E/W:427.5', INC:25.21
20,153.0	12,628.1	7,333.4	378.5	Projection to Bit (MD=20153.0')
20,210.0	12,625.5	7,390.2	382.1	Last MWD Survey (MD=20210.0')

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



Lea County, NM (NAD 83 NME)

Condor 32 State Com #718H

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: #718H

KB = 25' @ 3354.0usft
Northing 394161.00 Easting 799535.00
Latitude 32° 4' 51.158 N Longitude 103° 29' 54.222 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSeal	Target
1	884.0	0.80	128.40	883.9	-4.9	11.4	0.00	0.00	-4.4	
2	2805.3	0.80	128.40	2805.0	-31.7	32.4	0.00	0.00	-20.0	
3	3067.5	8.04	130.52	3066.7	-31.7	44.3	2.00	2.44	-29.5	
4	7759.3	6.04	130.52	7732.3	-352.7	419.9	0.00	0.00	-331.3	
5	8081.5	0.00	0.00	8034.0	-363.0	432.0	2.00	180.00	-341.1	Brushy Top(Condor 32 State Com #718H)
6	12203.0	0.00	0.00	12175.5	-363.0	432.0	0.00	0.00	-341.1	
7	12205.8	90.48	359.53	12052.9	118.3	428.0	12.00	359.53	139.4	
8	14319.7	90.48	359.53	12042.0	1481.1	416.8	0.00	0.00	1500.0	TGT#1(Condor 32 State Com #718H)
9	14323.4	90.53	359.53	12042.0	1484.8	416.8	2.00	0.00	1503.7	
10	15822.3	90.53	359.53	12028.0	2983.6	404.4	0.00	0.00	3000.0	TGT#2(Condor 32 State Com #718H)
11	15826.2	90.61	359.53	12028.0	2987.4	404.4	2.00	0.00	3003.8	
12	17325.0	90.61	359.53	12012.0	4486.1	392.0	0.00	0.00	4500.0	TGT#3(Condor 32 State Com #718H)
13	17328.9	90.65	359.53	12012.0	4488.0	392.0	2.00	0.00	4501.9	
14	18827.5	90.65	359.53	12595.0	5988.5	379.6	0.00	0.00	6000.0	TGT#4(Condor 32 State Com #718H)
15	18829.7	90.69	359.53	12595.0	5990.7	379.6	2.00	0.00	6002.2	
16	20234.2	90.69	359.53	12578.0	7395.0	388.0	0.00	0.00	7404.2	PBHL (Condor 32 State Com #718H)

CASING DETAILS

No casing data is available

WELLSBOTS TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(Condor 32 State Com #718H)	8034.0	-363.0	432.0	393785.00	800387.00
PBHL (Condor 32 State Com #718H)	12578.0	7395.0	388.0	401538.90	800303.00
TGT#1(Condor 32 State Com #718H)	12042.0	1481.1	416.8	400148.00	800314.60
TGT#2(Condor 32 State Com #718H)	12028.0	2983.6	404.4	399847.10	800277.00
TGT#3(Condor 32 State Com #718H)	12012.0	4486.1	392.0	397144.80	800256.29
TGT#4(Condor 32 State Com #718H)	12595.0	5988.5	379.6	395842.10	800381.79
FTP (Condor 32 State Com #718H)	12654.0	-313.0	432.0	392848.00	800387.00

