

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Condor 32 State Com

#713H

OH

Design: OH

Midland PVA

24 May, 2018



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #713H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3365.0usft (H&P 620)
Site:	Condor 32 State Com	MD Reference:	KB = 25 @ 3365.0usft (H&P 620)
Well:	#713H	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	Condor 32 State Com		
Site Position:		Northing:	394,016.00 usft
From:	Map	Easting:	801,320.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 49.616 N
		Longitude:	103° 29' 38.138 W
		Grid Convergence:	0.45 °

Well	#713H		
Well Position	+N-S	0.0 usft	Northing: 394,016.00 usft
	+E-W	0.0 usft	Easting: 801,321.00 usft
Position Uncertainty	0.0 usft		Latitude: 32° 4' 49.616 N
			Longitude: 103° 29' 38.126 W
		Wellhead Elevation:	usft
		Ground Level:	3,340.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	4/18/2018	6.82
			Dip Angle (°)
			59.93
			Field Strength (nT)
			47,775.70908737

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 (°)
			357.93

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Survey Program	Date	5/24/2018									
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description							
186.0	960.0	Charger Corrected 25' + GN (OH)	MWD	OWSG MWD - Standard							
974.0	20,050.0	MS MWD (OH)	MWD	OWSG MWD - Standard							

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLog ("/100usft)	Buid ("/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
186.0	1.10	76.39	186.0	0.4	1.7	0.59	0.59	0.00	0.0	0.0
273.0	0.90	98.39	273.0	0.5	3.2	0.49	-0.23	25.29	0.0	0.0
304.0	1.20	99.39	304.0	0.4	3.8	0.97	0.97	3.23	0.0	0.0
335.0	1.30	96.39	335.0	0.3	4.5	0.39	0.32	-8.68	0.0	0.0
366.0	0.80	80.39	366.0	0.3	5.0	1.85	-1.61	-51.61	0.0	0.0
460.0	1.40	84.39	459.9	0.6	6.8	0.64	0.64	4.26	0.0	0.0
552.0	0.70	85.39	551.9	0.7	8.5	0.76	-0.76	1.09	0.0	0.0
583.0	1.30	81.39	582.9	0.8	9.0	1.95	1.94	-12.90	0.0	0.0
615.0	0.60	90.39	614.9	0.8	9.5	2.23	-2.19	28.13	0.0	0.0
647.0	0.60	97.39	646.9	0.8	9.9	0.23	0.00	21.88	0.0	0.0
677.0	0.80	98.39	676.9	0.8	10.2	0.67	0.67	3.33	0.0	0.0
709.0	0.70	100.39	708.9	0.7	10.7	0.32	-0.31	6.25	0.0	0.0
741.0	0.60	106.39	740.9	0.6	11.0	0.38	-0.31	18.75	0.0	0.0
773.0	0.60	49.39	772.9	0.7	11.3	1.79	0.00	-178.13	0.0	0.0
804.0	0.90	89.39	803.9	0.8	11.7	1.89	0.97	129.03	0.0	0.0
834.0	0.70	100.39	833.9	0.7	12.1	0.84	-0.67	36.67	0.0	0.0
866.0	0.90	85.39	865.9	0.7	12.5	0.90	0.63	-46.88	0.0	0.0
897.0	0.40	57.39	896.9	0.8	12.9	1.87	-1.61	-90.32	0.0	0.0
960.0	0.50	80.39	959.9	1.0	13.3	0.32	0.16	36.51	0.0	0.0
1,068.0	0.70	122.90	1,067.9	0.7	14.3	0.44	0.19	39.36	0.0	0.0

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Site:	Condor 32 State Corn	MD Reference:	KB = 25 @ 3365.0usft (H&P 620)
Well:	#713H	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)	
1,256.0	0.30	116.50	1,255.9	-0.1	15.7	0.21	-0.21	-3.40	0.0	0.0	
1,444.0	0.80	128.40	1,443.9	-1.2	17.2	0.27	0.27	6.33	0.0	0.0	
1,632.0	0.60	126.50	1,631.9	-2.6	19.0	0.11	-0.11	-1.01	0.0	0.0	
1,818.0	0.70	119.70	1,817.8	-3.7	20.8	0.07	0.05	-3.66	0.0	0.0	
2,007.0	0.70	121.90	2,006.8	-4.9	22.8	0.01	0.00	1.16	0.0	0.0	
2,194.0	0.90	116.70	2,193.8	-6.2	25.1	0.11	0.11	-2.78	0.0	0.0	
2,382.0	1.00	97.30	2,381.8	-7.0	28.0	0.18	0.05	-10.32	0.0	0.0	
2,568.0	1.10	93.10	2,567.7	-7.3	31.4	0.07	0.05	-2.26	0.0	0.0	
2,756.0	1.40	94.30	2,755.7	-7.6	35.5	0.16	0.16	0.64	0.0	0.0	
2,941.0	1.70	92.00	2,940.6	-7.9	40.5	0.17	0.16	-1.24	0.0	0.0	
3,128.0	3.30	169.30	3,127.5	-13.3	44.3	1.80	0.86	41.34	0.0	0.0	
3,317.0	3.90	169.40	3,316.1	-24.9	46.5	0.32	0.32	0.05	0.0	0.0	
3,504.0	5.10	176.10	3,502.5	-39.5	48.2	0.70	0.64	3.58	0.0	0.0	
3,692.0	4.90	170.20	3,689.8	-55.7	50.1	0.29	-0.11	-3.14	0.0	0.0	
3,880.0	6.00	172.10	3,877.0	-73.4	52.8	0.59	0.59	1.01	0.0	0.0	
4,067.0	6.10	169.60	4,062.9	-92.8	56.0	0.15	0.05	-1.34	0.0	0.0	
4,255.0	5.50	177.30	4,250.0	-111.6	58.2	0.52	-0.32	4.10	0.0	0.0	
4,443.0	5.20	174.60	4,437.2	-129.1	59.4	0.21	-0.16	-1.44	0.0	0.0	
4,630.0	5.50	167.10	4,623.3	-146.3	62.2	0.41	0.16	-4.01	0.0	0.0	
4,818.0	6.40	168.60	4,810.3	-165.4	66.3	0.49	0.48	0.80	0.0	0.0	
5,006.0	6.40	167.90	4,997.2	-185.9	70.6	0.04	0.00	-0.37	0.0	0.0	
5,152.0	5.80	167.70	5,142.3	-201.0	73.9	0.41	-0.41	-0.14	0.0	0.0	
5,275.0	5.10	171.60	5,264.8	-212.5	76.0	0.64	-0.57	3.17	0.0	0.0	
5,463.0	3.40	167.10	5,452.2	-226.2	78.4	0.92	-0.90	-2.39	0.0	0.0	
5,651.0	1.10	231.40	5,640.1	-232.8	78.3	1.64	-1.22	34.20	0.0	0.0	
5,839.0	1.80	316.40	5,828.1	-231.8	74.8	1.08	0.37	45.21	0.0	0.0	
6,026.0	2.00	320.40	6,015.0	-227.1	70.7	0.13	0.11	2.14	0.0	0.0	

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Well:	#713H	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)	Bp1d (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
6,214.0	2.00	323.70	6,202.8	-222.0	66.7	0.06	0.00	1.76	0.0	0.0	
6,403.0	1.80	305.80	6,391.7	-217.6	62.3	0.33	-0.11	-9.47	0.0	0.0	
6,590.0	1.90	311.80	6,578.6	-213.8	57.6	0.12	0.05	3.21	0.0	0.0	
6,779.0	1.90	314.20	6,767.5	-209.5	53.1	0.04	0.00	1.27	0.0	0.0	
6,966.0	0.90	4.20	6,954.5	-205.9	50.9	0.80	-0.53	26.74	0.0	0.0	
7,154.0	0.30	338.10	7,142.5	-203.9	50.9	0.34	-0.32	-13.88	0.0	0.0	
7,247.0	0.40	300.00	7,235.5	-203.6	50.5	0.27	0.11	-40.97	0.0	0.0	
7,435.0	1.00	301.70	7,423.5	-202.4	48.5	0.32	0.32	0.90	0.0	0.0	
7,623.0	0.80	318.50	7,611.4	-200.5	46.3	0.18	-0.11	8.94	0.0	0.0	
7,811.0	1.00	306.90	7,799.4	-198.6	44.1	0.14	0.11	-6.17	0.0	0.0	
7,998.0	0.80	296.00	7,986.4	-197.0	41.6	0.14	-0.11	-5.83	0.0	0.0	
8,187.0	0.50	299.70	8,175.4	-196.0	39.7	0.16	-0.16	1.96	0.0	0.0	
8,374.0	0.60	285.90	8,362.4	-195.3	38.1	0.09	0.05	-7.38	0.0	0.0	
8,562.0	0.30	269.20	8,550.4	-195.1	36.6	0.17	-0.16	-8.88	0.0	0.0	
8,749.0	0.30	308.80	8,737.4	-194.8	35.7	0.11	0.00	21.18	0.0	0.0	
8,936.0	0.30	316.60	8,924.4	-194.1	35.0	0.02	0.00	4.17	0.0	0.0	
9,124.0	0.60	286.80	9,112.3	-193.5	33.7	0.20	0.16	-15.85	0.0	0.0	
9,313.0	0.70	294.90	9,301.3	-192.7	31.8	0.07	0.05	4.29	0.0	0.0	
9,500.0	1.00	309.70	9,488.3	-191.2	29.5	0.20	0.16	7.91	0.0	0.0	
9,688.0	1.30	328.70	9,676.3	-188.3	27.1	0.26	0.16	10.11	0.0	0.0	
9,876.0	1.00	58.30	9,864.2	-185.6	27.4	0.87	-0.16	47.66	0.0	0.0	
10,063.0	0.80	41.50	10,051.2	-183.8	29.6	0.18	-0.11	-8.98	0.0	0.0	
10,250.0	0.90	95.70	10,238.2	-183.0	32.0	0.42	0.05	28.98	0.0	0.0	
10,438.0	0.20	26.90	10,426.2	-182.8	33.6	0.45	-0.37	-36.60	0.0	0.0	
10,626.0	0.80	208.70	10,614.2	-183.7	33.1	0.53	0.32	-94.79	0.0	0.0	
10,814.0	1.10	185.70	10,802.2	-186.6	32.3	0.26	0.16	-12.23	0.0	0.0	
11,001.0	0.70	176.80	10,989.1	-189.5	32.2	0.23	-0.21	-4.76	0.0	0.0	

Midland PVA



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Site: Condor 32 State Com		MD Reference: KB = 25 @ 3365.0usft (H&P 620)	
Well: #713H		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)	
11,189.0	0.10	131.70	11,177.2	-190.8	32.4	0.34	-0.32	-23.99	0.0	0.0	
11,376.0	2.20	49.30	11,364.1	-188.6	35.2	1.17	1.12	-44.06	-3.6	0.2	
11,563.0	1.80	45.10	11,551.0	-184.2	40.0	0.23	-0.21	-2.25	-10.1	0.0	
11,750.0	1.00	320.40	11,738.0	-180.8	41.0	1.06	-0.43	-45.29	-3.1	-12.9	
11,938.0	1.20	231.30	11,925.9	-180.8	38.5	0.82	0.11	-47.39	10.8	-5.3	
12,014.0	1.00	221.50	12,001.9	-181.8	37.4	0.36	-0.26	-12.89	10.1	-3.6	
12,058.0	1.00	218.10	12,045.9	-182.4	36.9	0.13	0.00	-7.73	9.5	-3.1	
12,105.0	1.50	250.90	12,092.9	-182.9	36.1	1.82	1.06	69.79	5.3	-7.6	
12,152.0	8.10	261.80	12,139.7	-183.6	32.2	14.11	14.04	23.19	-0.1	-8.3	
12,199.0	12.90	263.00	12,185.9	-184.7	23.7	10.22	10.21	2.55	-6.8	-5.6	
12,246.0	15.50	266.00	12,231.5	-185.8	12.2	5.75	5.53	6.38	-13.4	1.1	
12,292.0	17.50	275.00	12,275.6	-185.6	-0.8	7.05	4.35	19.58	-16.6	12.1	
12,339.0	22.40	286.10	12,319.7	-182.5	-16.4	13.13	10.43	23.62	-14.8	24.7	
12,386.0	29.60	296.10	12,362.0	-174.9	-35.5	17.89	15.32	21.28	-10.4	35.3	
12,433.0	34.50	302.90	12,401.8	-162.5	-57.1	12.93	10.43	14.47	-6.7	42.9	
12,480.0	39.30	309.00	12,439.4	-145.9	-79.9	12.84	10.21	12.98	-2.0	47.7	
12,527.0	45.20	313.00	12,474.2	-125.2	-103.7	13.79	12.55	8.51	1.6	50.0	
12,574.0	52.30	322.70	12,505.2	-98.9	-127.2	21.63	15.11	20.64	6.3	49.7	
12,621.0	57.70	330.90	12,532.2	-66.7	-148.2	18.32	11.49	17.45	6.9	47.0	
12,667.0	59.70	335.60	12,556.1	-31.6	-165.8	9.75	4.35	10.22	5.3	43.6	
12,714.0	62.30	338.30	12,578.9	6.2	-181.9	7.47	5.53	5.74	3.8	40.5	
12,762.0	63.80	341.40	12,600.6	46.3	-196.6	6.55	3.13	6.46	3.9	38.3	
12,787.4	65.95	343.38	12,611.4	68.3	-203.6	11.01	8.47	7.77	4.5	37.2	
FTP Crossing 12787.4' MD; 12611.4' TVD; 68.3°; -203.6°; 65.95											
12,809.0	67.80	345.00	12,619.9	87.4	-209.0	11.01	8.56	7.53	5.0	36.4	
12,856.0	73.00	348.30	12,635.7	130.4	-219.2	12.89	11.06	7.02	5.5	34.5	
12,903.0	75.20	349.80	12,648.5	174.8	-227.8	5.60	4.68	3.19	6.1	33.5	

Midland PVA



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Site:	Condor 32 State Com	MD Reference:	KB = 25 @ 3365.0usft (H&P 620)
Well:	#713H	North Reference:	Grid
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Survey											
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12,949.0	77.30	352.10	12,659.5	218.9	-234.8	6.67	4.57	5.00	8.4	33.6	
12,996.0	83.30	358.50	12,667.4	265.1	-238.6	18.52	12.77	13.62	11.3	32.6	
13,045.0	85.30	0.60	12,672.3	313.8	-239.0	5.90	4.08	4.29	14.0	30.8	
13,091.0	86.90	0.30	12,675.4	359.7	-238.6	3.54	3.48	-0.65	17.4	30.0	
13,185.0	92.40	359.50	12,676.0	453.7	-238.8	5.91	5.85	-0.85	18.8	29.4	
13,279.0	92.90	359.00	12,671.6	547.6	-240.0	0.75	0.53	-0.53	15.3	29.8	
13,373.0	91.60	0.50	12,667.9	641.5	-240.4	2.11	-1.38	1.60	12.4	29.4	
13,467.0	91.90	1.20	12,665.1	735.4	-239.0	0.81	0.32	0.74	10.3	27.2	
13,560.0	90.70	1.20	12,662.9	828.4	-237.1	1.29	-1.29	0.00	9.0	24.5	
13,654.0	89.20	1.20	12,663.0	922.4	-235.1	1.60	-1.60	0.00	9.9	21.7	
13,748.0	89.00	0.40	12,664.5	1,016.3	-233.8	0.88	-0.21	-0.85	12.1	19.6	
13,842.0	89.20	359.80	12,666.0	1,110.3	-233.6	0.67	0.21	-0.64	14.4	18.6	
13,935.0	90.10	359.20	12,666.5	1,203.3	-234.4	1.16	0.97	-0.65	15.8	18.6	
14,029.0	90.20	359.80	12,666.3	1,297.3	-235.2	0.65	0.11	0.64	16.3	18.6	
14,123.0	90.70	359.50	12,665.6	1,391.3	-235.8	0.62	0.53	-0.32	16.4	18.4	
14,217.0	90.80	0.00	12,664.3	1,485.3	-236.2	0.54	0.11	0.53	16.0	18.0	
14,310.0	90.10	1.00	12,663.6	1,578.3	-235.4	1.31	-0.75	1.08	16.1	16.4	
14,404.0	88.40	0.40	12,664.8	1,672.3	-234.3	1.92	-1.81	-0.64	18.1	14.5	
14,497.0	88.10	0.50	12,667.7	1,765.2	-233.5	0.34	-0.32	0.11	21.7	12.9	
14,591.0	90.10	0.10	12,669.1	1,859.2	-233.0	2.17	2.13	-0.43	24.0	11.6	
14,685.0	89.20	0.50	12,669.7	1,953.2	-232.6	1.05	-0.96	0.43	25.4	10.4	
14,779.0	91.10	359.10	12,669.5	2,047.2	-232.9	2.51	2.02	-1.49	26.2	9.9	
14,873.0	91.50	357.50	12,667.3	2,141.1	-235.7	1.75	0.43	-1.70	25.2	11.8	
14,967.0	91.00	357.00	12,665.3	2,235.0	-240.2	0.75	-0.53	-0.53	24.4	15.5	
15,061.0	91.60	357.90	12,663.2	2,328.9	-244.4	1.15	0.84	0.96	23.5	18.9	
15,154.0	91.60	357.00	12,660.6	2,421.7	-248.5	0.97	0.00	-0.97	22.1	22.3	
15,248.0	91.50	358.10	12,658.0	2,515.6	-252.5	1.17	-0.11	1.17	20.8	25.5	

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #713H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3365.0usft (H&P 620)
Site:	Condor 32 State Com	MD Reference:	KB = 25 @ 3365.0usft (H&P 620)
Well:	#713H	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)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,342.0	94.30	0.00	12,653.3	2,609.5	-254.1	3.60	2.98	2.02	17.2	26.3
15,436.0	93.20	0.40	12,647.1	2,703.3	-253.7	1.24	-1.17	0.43	12.3	25.1
15,530.0	91.30	1.00	12,643.4	2,797.2	-252.6	2.12	-2.02	0.64	9.8	23.2
15,623.0	90.10	1.40	12,642.3	2,890.2	-250.6	1.36	-1.29	0.43	9.9	20.4
15,717.0	89.40	0.70	12,642.7	2,984.1	-248.9	1.05	-0.74	-0.74	11.6	17.9
15,811.0	89.60	1.00	12,643.5	3,078.1	-247.5	0.38	0.21	0.32	13.6	15.7
15,905.0	90.60	0.50	12,643.4	3,172.1	-246.3	1.19	1.06	-0.53	14.7	13.7
15,999.0	91.70	359.60	12,641.5	3,266.1	-246.2	1.51	1.17	-0.96	14.0	12.8
16,093.0	91.60	0.30	12,638.8	3,360.1	-246.3	0.75	-0.11	0.74	12.5	12.1
16,187.0	91.00	0.60	12,636.6	3,454.0	-245.6	0.71	-0.64	0.32	11.6	10.5
16,281.0	92.00	0.10	12,634.2	3,548.0	-245.0	1.19	1.06	-0.53	10.4	9.1
16,375.0	89.40	0.10	12,633.0	3,642.0	-244.8	2.77	-2.77	0.00	10.4	8.2
16,468.0	89.80	359.00	12,633.7	3,735.0	-245.6	1.26	0.43	-1.18	12.3	8.1
16,562.0	91.50	358.50	12,632.6	3,828.9	-247.6	1.89	1.81	-0.53	12.5	9.4
16,656.0	87.80	358.50	12,633.2	3,922.9	-250.1	3.94	-3.94	0.00	14.2	11.0
16,750.0	86.20	359.70	12,638.1	4,016.7	-251.5	2.13	-1.70	1.28	20.3	11.7
16,843.0	88.20	359.00	12,642.6	4,109.6	-252.6	2.28	2.15	-0.75	25.9	12.0
16,937.0	87.30	357.80	12,646.3	4,203.5	-255.2	1.59	-0.96	-1.28	30.6	13.8
17,030.0	91.80	357.70	12,647.1	4,296.4	-258.9	4.84	4.84	-0.11	32.4	16.6
17,124.0	93.10	359.20	12,643.0	4,390.3	-261.4	2.11	1.38	1.60	29.4	18.4
17,218.0	92.70	359.00	12,638.3	4,484.1	-262.9	0.48	-0.43	-0.21	25.7	19.0
17,311.0	92.80	358.30	12,633.8	4,577.0	-265.1	0.76	0.11	-0.75	22.3	20.4
17,404.0	94.10	359.00	12,628.2	4,669.8	-267.3	1.59	1.40	0.75	17.7	21.8
17,498.0	94.10	1.30	12,621.5	4,763.6	-267.0	2.44	0.00	2.45	11.9	20.8
17,622.0	92.60	2.70	12,614.3	4,887.3	-262.7	1.65	-1.21	1.13	6.1	15.4
17,716.0	90.90	2.00	12,611.4	4,981.1	-258.8	1.96	-1.81	-0.74	4.2	10.7
17,810.0	91.20	1.20	12,609.7	5,075.1	-256.2	0.91	0.32	-0.85	3.6	7.3

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #713H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3365.0usft (H&P 620)
Site:	Condor 32 State Com	MD Reference:	KB = 25 @ 3365.0usft (H&P 620)
Well:	#713H	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)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
17,904.0	90.00	0.50	12,608.7	5,169.1	-254.8	1.48	-1.28	-0.74	3.6	5.1	
17,998.0	90.10	0.60	12,608.6	5,263.1	-253.9	0.15	0.11	0.11	4.6	3.4	
18,092.0	87.40	358.40	12,610.7	5,357.0	-254.7	3.70	-2.87	-2.34	7.6	3.4	
18,185.0	90.60	359.60	12,612.3	5,450.0	-256.2	3.76	3.44	1.51	10.3	4.1	
18,279.0	93.30	2.10	12,609.1	5,543.9	-254.6	3.77	2.87	2.45	8.1	1.7	
18,373.0	92.60	0.40	12,604.2	5,637.8	-252.6	1.95	-0.74	-1.81	4.3	-1.1	
18,467.0	88.80	359.70	12,603.1	5,731.7	-252.5	4.11	-4.04	-0.74	4.2	-2.0	
18,561.0	87.00	0.00	12,606.5	5,825.7	-252.8	1.94	-1.91	0.32	8.7	-2.6	
18,655.0	89.50	2.80	12,609.4	5,919.6	-250.5	3.99	2.66	2.98	12.6	-5.7	
18,748.0	87.10	359.60	12,612.2	6,012.5	-248.5	4.30	-2.58	-3.44	16.3	-8.4	
18,842.0	88.80	357.70	12,615.5	6,106.4	-250.7	2.71	1.81	-2.02	20.7	-7.0	
18,936.0	89.80	357.80	12,616.7	6,200.4	-254.4	1.07	1.06	0.11	22.8	-4.1	
19,030.0	91.00	358.60	12,616.0	6,294.3	-257.4	1.53	1.28	0.85	23.2	-2.0	
19,123.0	91.70	358.80	12,613.8	6,387.3	-259.5	0.78	0.75	0.22	21.9	-0.7	
19,218.0	89.90	359.10	12,612.5	6,482.2	-261.2	1.92	-1.89	0.32	21.6	0.3	
19,311.0	97.40	2.70	12,606.6	6,574.9	-259.8	8.94	8.06	3.87	16.7	-2.0	
19,405.0	95.80	1.20	12,595.8	6,668.3	-256.6	2.33	-1.70	-1.60	6.8	-5.9	
19,499.0	91.60	359.10	12,589.7	6,762.0	-256.4	4.99	-4.47	-2.23	1.8	-7.0	
19,593.0	93.90	2.00	12,585.2	6,855.9	-255.5	3.93	2.45	3.09	-1.7	-8.7	
19,687.0	92.40	357.90	12,580.0	6,949.7	-255.5	4.64	-1.60	-4.36	-6.0	-9.4	
19,781.0	91.20	357.90	12,577.1	7,043.6	-259.0	1.28	-1.28	0.00	-7.9	-6.8	
19,874.0	88.10	358.10	12,577.7	7,136.5	-262.2	3.34	-3.33	0.22	-6.4	-4.3	
19,968.0	88.50	358.90	12,580.4	7,230.5	-264.7	0.95	0.43	0.85	-2.6	-2.6	
19,967.0	88.50	358.60	12,580.9	7,249.5	-265.1	1.58	0.00	-1.58	-1.9	-2.4	
Last MWD Survey (MD = 19987.0)											
20,050.0	88.50	358.60	12,582.6	7,312.4	-266.6	0.00	0.00	0.00	0.4	-1.4	
Projection to BH (MD = 20050.0)											

Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #713H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3365.0usft (H&P 620)
Site:	Condor 32 State Com	MD Reference:	KB = 25 @ 3365.0usft (H&P 620)
Well:	#713H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,787.4	12,611.4	68.3	-203.6	FTP Crossing 12787.4' MD; 12611.4' TVD; 68.3'; -203.6'; 65.95
19,987.0	12,580.9	7,249.5	-265.1	Last MWD Survey (MD = 19987.0)
20,050.0	12,582.6	7,312.4	-266.6	Projection to Bit (MD = 20050.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Condor 32 State Com #713H

H&P 620

Plan #4

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: #713H

KB = 25 @ 3365.0ust (H&P 620)
Northing 394016.00 Easting 501321.00 Longitude 32°4' 45.016 N 103°29' 38.126 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFact	VSect	Target
1	11189.0	0.10	131.73	11177.1	-190.8	32.4	0.00	0.00	-191.6	
2	12139.8	0.10	131.73	12128.0	-191.9	33.8	0.00	0.00	-193.0	
3	12519.8	45.61	315.00	12469.2	-90.7	-67.6	12.03	-176.74	-88.2	
4	13016.7	90.49	359.51	12658.3	321.3	-208.2	12.03	54.24	328.7	
5	14688.7	90.49	359.51	12644.0	1993.2	-222.5	0.00	0.00	2000.0	TGT #1(Condor 32 SC #713H)
6	14701.5	90.75	359.51	12643.9	2006.0	-222.7	2.00	0.00	2012.7	
7	16689.6	90.75	359.51	12618.0	3993.9	-239.7	0.00	0.00	4000.0	TGT #2(Condor 32 SC #713H)
8	16695.4	90.63	359.51	12617.9	3999.7	-239.7	2.00	180.00	4005.7	
9	18690.5	90.63	359.51	12596.0	5994.8	-256.8	0.00	0.00	6000.0	TGT #3(Condor 32 SC #713H)
10	18692.0	90.60	359.51	12596.0	5996.1	-256.8	2.00	-180.00	6001.4	
11	20121.1	90.60	359.51	12581.0	7425.0	-269.0	0.00	0.00	7429.9	PBHL (Condor 32 SC #713H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PBHL (Condor 32 SC #713H)	12591.0	7425.0	-259.0	401441.00	801003.00
TGT #1(Condor 32 SC #713H)	12596.0	5994.8	-256.8	400010.60	801064.23
TGT #2(Condor 32 SC #713H)	12618.0	3993.9	-239.7	399000.90	801081.34
TGT #3(Condor 32 SC #713H)	12644.0	1993.2	-222.5	398000.20	801089.45
FTP (Condor 32 SC #713H)	12655.0	63.0	-207.0	394085.00	801114.00
PBHL (Condor 32 SC #713H)Old	13120.0	7427.0	-24.0	401443.00	801287.00
TGT #1(Condor 32 SC #713H)Old	13130.0	6000.0	-12.0	400015.00	801100.03
TGT #2(Condor 32 SC #713H)Old	13152.0	4000.0	4.8	399016.00	801325.89
TGT #3(Condor 32 SC #713H)Old	13168.0	2000.1	21.7	396016.10	801342.74

