

HOBBS CO
OCT 04 2018
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Condor 32 State Com

#740H

OH

Design: OH

Midland PVA

01 June, 2018





Midland PVA



Company:	EOG Resources - Midland			Local Co-ordinate Reference:	Well #740H
Project:	Lea County, NM (NAD 83 NME)			TVD Reference:	KB = 25 @ 3366.0usft (H&P 653)
Site:	Condor 32 State Com			MD Reference:	KB = 25 @ 3366.0usft (H&P 653)
Well:	#740H			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	Latitude:	32° 4' 49.616 N
From:	Map	Easting:	801,320.00 usft	Longitude:	103° 29' 38.138 W
Position Uncertainty:	0.0 usft	Spot Radius:	13-3/16 "	Grid Convergence:	0.45 °

Well	#740H					
Well Position	+N/-S	0.0 usft	Northing:	394,021.00 usft	Latitude:	32° 4' 49.622 N
	+E/-W	0.0 usft	Easting:	801,890.00 usft	Longitude:	103° 29' 31.513 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	usft	Ground Level:	3,341.0 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/10/2018	6.82	59.93	47,778.14534071

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	357.10	



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Survey Program		Date	6/1/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
106.0	1,016.0	Invicta Cartel 41 8' KB +17' (OH)	MWD	OWSG MWD - Standard	
1,070.0	20,551.0	DrillTech (OH)	MWD	OWSG MWD - Standard	

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
106.0	0.70	125.70	106.0	-0.4	0.5	0.66	0.66	0.00	-0.6	0.0
222.0	0.70	129.30	222.0	-1.2	1.6	0.04	0.00	3.10	-2.1	0.1
406.0	1.10	27.60	406.0	-0.4	3.3	0.77	0.22	-55.27	-1.2	-3.1
531.0	1.80	41.50	530.9	2.1	5.2	0.62	0.56	11.12	-5.0	-2.5
573.0	1.90	18.80	572.9	3.3	5.9	1.75	0.24	-54.05	-5.0	-4.5
626.0	1.70	13.80	625.9	4.9	6.3	0.48	-0.38	-9.43	-6.3	-5.0
657.0	1.50	28.50	656.9	5.7	6.6	1.47	-0.65	47.42	-8.2	-3.1
689.0	1.80	9.70	688.9	6.6	6.9	1.92	0.94	-58.75	-7.6	-5.7
689.0	1.80	5.20	688.9	6.9	7.0	1.41	0.00	-45.00	-7.5	-6.3
752.0	1.40	6.50	751.8	8.3	7.1	0.76	-0.75	2.45	-9.1	-6.1
783.0	1.80	3.70	782.8	9.2	7.2	1.31	1.29	-9.03	-9.6	-6.6
814.0	1.60	33.80	813.8	10.1	7.5	2.91	-0.65	97.10	-12.5	-0.6
847.0	1.50	3.47	846.8	10.9	7.7	2.47	-0.30	-81.91	-11.3	-7.1
878.0	1.10	340.62	877.8	11.6	7.7	2.09	-1.29	-73.71	-8.4	-11.1
910.0	1.10	348.30	909.8	12.1	7.5	0.46	0.00	24.00	-10.4	-9.8
974.0	1.20	356.30	973.8	13.4	7.3	0.30	0.16	12.50	-12.9	-8.2
1,006.0	1.10	343.10	1,005.8	14.0	7.2	0.88	-0.31	-41.25	-11.3	-11.0
1,016.0	0.80	341.10	1,015.8	14.2	7.2	3.02	-3.00	-20.00	-11.1	-11.4
1,070.0	1.06	40.30	1,069.8	14.9	7.4	1.75	0.48	109.63	-16.2	4.0
1,256.0	2.02	176.88	1,255.7	13.0	8.7	1.55	0.52	73.43	12.5	9.4



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MD Reference: KB = 25 @ 3366.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
1,442.0	2.02	175.21	1,441.6	6.4	9.1	0.03	0.00	-0.90	5.7	9.6	
1,630.0	2.02	190.06	1,629.5	-0.1	8.8	0.28	0.00	7.90	1.4	8.7	
1,820.0	2.11	198.76	1,819.4	-6.7	7.1	0.17	0.05	4.58	-4.1	8.9	
2,009.0	2.02	202.63	2,008.2	-13.1	4.7	0.09	-0.05	2.05	-10.3	9.4	
2,199.0	2.11	194.19	2,198.1	-19.6	2.6	0.17	0.05	-4.44	-18.4	7.3	
2,389.0	3.08	235.33	2,387.9	-25.9	-2.5	1.07	0.51	21.65	-16.8	19.9	
2,579.0	2.73	233.39	2,577.7	-31.5	-10.3	0.19	-0.18	-1.02	-27.1	19.1	
2,769.0	1.93	248.24	2,767.5	-35.4	-16.9	0.52	-0.42	7.82	-28.8	26.6	
2,959.0	0.88	233.04	2,957.5	-37.4	-21.1	0.58	-0.55	-8.00	-39.3	17.2	
3,149.0	0.79	108.41	3,147.5	-38.7	-21.0	0.78	-0.05	-65.59	5.6	-40.7	
3,339.0	0.70	280.33	3,337.5	-38.9	-20.9	0.78	-0.05	90.48	-6.4	35.0	
3,529.0	1.06	314.78	3,527.4	-37.5	-23.3	0.33	0.19	18.13	13.1	26.6	
3,718.0	2.20	279.01	3,716.4	-35.7	-28.1	0.78	0.60	-18.93	-5.2	23.7	
3,908.0	2.46	273.12	3,906.2	-34.9	-35.8	0.19	0.14	-3.10	-10.0	18.7	
4,098.0	1.23	284.28	4,096.1	-34.2	-41.8	0.67	-0.65	5.87	-7.9	16.1	
4,288.0	0.53	264.94	4,286.1	-33.7	-44.7	0.40	-0.37	-10.18	-9.8	8.7	
4,478.0	0.62	157.54	4,476.1	-34.8	-45.2	0.49	0.05	-56.53	-4.8	-6.2	
4,668.0	0.97	157.28	4,666.1	-37.2	-44.2	0.18	0.18	-0.14	-6.1	0.2	
4,858.0	2.02	160.09	4,856.0	-41.8	-42.4	0.55	0.55	1.48	-9.4	7.0	
5,048.0	3.17	143.92	5,045.8	-49.2	-38.2	0.71	0.61	-8.51	-19.7	10.0	
5,143.0	3.08	138.56	5,140.7	-53.3	-34.9	0.32	-0.09	-5.64	-26.5	13.9	
5,212.0	2.90	145.15	5,209.6	-56.1	-32.7	0.56	-0.26	9.55	-28.4	23.3	
5,402.0	5.01	216.43	5,399.2	-66.7	-34.9	2.59	1.11	37.52	23.6	46.1	
5,496.0	7.39	215.37	5,492.6	-74.9	-40.6	2.53	2.53	-1.13	22.8	50.2	
5,591.0	8.00	221.44	5,586.8	-84.9	-48.7	1.07	0.64	6.39	25.9	50.9	
5,686.0	8.79	228.73	5,680.8	-94.6	-58.6	1.39	0.83	7.67	29.1	49.4	
5,781.0	8.27	229.61	5,774.7	-103.8	-69.2	0.56	-0.55	0.93	26.6	50.3	



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MD Reference: KB = 25 @ 3366.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	BuId (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,876.0	8.79	239.10	5,868.7	-112.0	-80.7	1.58	0.55	9.99	31.3	45.8	
5,971.0	9.50	247.10	5,962.5	-118.8	-94.1	1.53	0.75	8.42	33.0	39.9	
6,067.0	9.15	244.47	6,057.2	-125.1	-108.3	0.57	-0.36	-2.74	26.4	39.3	
6,162.0	9.15	245.26	6,151.0	-131.6	-122.0	0.13	0.00	0.83	22.6	37.3	
6,256.0	8.62	243.59	6,243.9	-137.8	-135.1	0.63	-0.56	-1.78	17.7	36.3	
6,351.0	9.50	245.26	6,337.7	-144.3	-148.6	0.97	0.93	1.76	14.5	34.2	
6,446.0	9.50	245.52	6,431.4	-150.8	-162.8	0.05	0.00	0.27	9.7	32.3	
6,541.0	9.50	242.00	6,525.1	-157.7	-176.9	0.61	0.00	-3.71	2.9	31.2	
6,636.0	8.79	242.00	6,618.9	-164.8	-190.2	0.75	-0.75	0.00	-1.3	30.0	
6,731.0	8.71	243.50	6,712.7	-171.4	-203.0	0.25	-0.08	1.58	-4.2	28.8	
6,826.0	8.53	240.16	6,806.7	-178.2	-215.6	0.56	-0.19	-3.52	-9.2	27.2	
6,920.0	8.71	240.25	6,899.6	-185.2	-227.8	0.19	0.19	0.10	-12.5	26.4	
7,015.0	8.53	239.46	6,993.5	-192.3	-240.1	0.23	-0.19	-0.83	-16.2	25.5	
7,110.0	8.35	238.58	7,087.5	-199.5	-252.1	0.23	-0.19	-0.93	-19.6	24.6	
7,205.0	7.83	237.08	7,181.6	-206.6	-263.4	0.59	-0.55	-1.58	-22.7	23.7	
7,300.0	7.21	240.95	7,275.7	-213.0	-274.1	0.84	-0.65	4.07	-22.6	24.6	
7,395.0	6.51	252.11	7,370.1	-217.6	-284.4	1.58	-0.74	11.75	-18.2	26.6	
7,490.0	4.92	259.93	7,464.6	-219.9	-293.5	1.86	-1.67	8.23	-13.9	25.1	
7,585.0	4.13	269.78	7,559.3	-220.6	-301.0	1.16	-0.83	10.37	-7.7	21.7	
7,680.0	2.20	308.27	7,654.2	-219.5	-305.8	2.92	-2.03	40.52	6.1	14.0	
7,775.0	2.11	326.47	7,749.1	-216.9	-308.2	0.72	-0.09	19.16	6.7	4.5	
7,870.0	1.32	4.70	7,844.1	-214.4	-309.1	1.42	-0.83	40.24	2.9	-2.8	
7,965.0	0.97	73.87	7,939.0	-213.1	-308.2	1.40	-0.37	72.81	-4.0	-2.3	
8,060.0	1.14	84.42	8,034.0	-212.8	-306.5	0.27	0.18	11.11	-6.1	-1.4	
8,155.0	0.97	92.85	8,129.0	-212.7	-304.8	0.24	-0.18	8.87	-7.9	-0.3	
8,250.0	1.14	108.32	8,224.0	-213.0	-303.1	0.35	0.18	16.28	-9.5	2.0	
8,345.0	1.23	115.27	8,319.0	-213.8	-301.2	0.18	0.09	7.32	-11.1	3.3	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
8,440.0	1.06	128.54	8,413.9	-214.8	-299.6	0.33	-0.18	13.97	-11.9	6.0	
8,534.0	1.49	120.63	8,507.9	-215.9	-297.9	0.49	0.46	-8.41	-14.7	4.1	
8,629.0	0.70	311.17	8,602.9	-216.2	-297.3	2.30	-0.83	-178.38	14.3	-7.0	
8,724.0	1.14	321.02	8,697.9	-215.1	-298.3	0.49	0.46	10.37	11.4	-9.2	
8,914.0	0.79	275.23	8,887.9	-213.5	-300.8	0.43	-0.18	-24.10	12.0	0.4	
9,009.0	0.97	271.10	8,982.9	-213.4	-302.3	0.20	0.19	-4.35	10.4	1.2	
9,104.0	0.88	260.99	9,077.9	-213.5	-303.8	0.20	-0.09	-10.64	8.5	2.9	
9,199.0	0.97	271.71	9,172.8	-213.6	-305.3	0.20	0.09	11.28	7.4	1.4	
9,294.0	0.97	291.05	9,267.8	-213.3	-306.9	0.34	0.00	20.36	5.9	-0.9	
9,389.0	0.97	284.63	9,362.8	-212.8	-308.4	0.11	0.00	-6.76	4.3	-0.3	
9,484.0	1.32	293.60	9,457.8	-212.1	-310.2	0.41	0.37	9.44	2.4	-0.9	
9,579.0	1.41	327.26	9,552.8	-210.7	-311.8	0.84	0.09	35.43	-0.6	-1.4	
9,674.0	1.67	340.97	9,647.7	-208.4	-312.9	0.47	0.27	14.43	-3.4	-1.0	
9,769.0	1.41	335.17	9,742.7	-206.1	-313.8	0.32	-0.27	-8.11	-5.9	-1.4	
9,864.0	1.32	347.56	9,837.7	-203.9	-314.6	0.32	-0.09	13.04	-8.3	0.1	
9,959.0	2.81	339.83	9,932.6	-200.7	-315.6	1.59	1.57	-8.14	-11.6	-1.2	
10,054.0	1.41	341.58	10,027.5	-197.4	-316.8	1.48	-1.47	1.84	-15.2	-0.7	
10,149.0	1.41	28.25	10,122.5	-195.2	-316.6	1.18	0.00	49.13	-12.9	11.4	
10,244.0	1.41	37.40	10,217.5	-193.3	-315.3	0.24	0.00	9.63	-13.3	13.5	
10,339.0	1.32	65.70	10,312.5	-191.9	-313.6	0.71	-0.09	29.79	-7.4	18.7	
10,434.0	0.97	87.84	10,407.4	-191.4	-311.8	0.59	-0.37	23.31	-1.6	20.5	
10,529.0	0.97	72.55	10,502.4	-191.2	-310.2	0.27	0.00	-16.09	-8.6	19.2	
10,624.0	0.88	96.28	10,597.4	-191.0	-308.8	0.41	-0.09	24.98	-1.6	21.3	
10,719.0	0.79	105.51	10,692.4	-191.2	-307.4	0.17	-0.09	9.72	0.5	21.4	
10,814.0	1.14	123.62	10,787.4	-191.9	-306.0	0.48	0.37	19.06	5.5	20.4	
10,909.0	1.32	109.82	10,882.4	-192.8	-304.2	0.36	0.19	-14.53	-1.5	20.9	
11,004.0	1.49	124.50	10,977.3	-193.9	-302.1	0.42	0.18	15.45	1.5	20.9	



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11,099.0	1.49	152.62	11,072.3	-195.7	-300.5	0.76	0.00	29.60	8.9	18.3	
11,194.0	1.76	181.27	11,167.3	-198.3	-300.0	0.89	0.28	30.16	14.0	12.4	
11,289.0	0.18	120.10	11,262.3	-199.8	-299.9	1.77	-1.66	-64.39	-4.9	17.0	
11,384.0	0.70	153.50	11,357.3	-200.4	-299.5	0.59	0.55	35.16	4.5	17.0	
11,479.0	2.46	152.80	11,452.2	-202.7	-298.3	1.85	1.85	-0.74	1.7	17.0	
11,574.0	2.46	171.42	11,547.1	-208.5	-297.1	0.84	0.00	19.60	3.1	16.2	
11,669.0	2.11	232.69	11,642.1	-209.6	-298.2	2.47	-0.37	64.49	13.0	6.9	
11,764.0	0.88	315.57	11,737.0	-210.2	-300.1	2.30	-1.29	87.24	7.5	-10.3	
11,859.0	0.88	312.49	11,832.0	-209.2	-301.1	0.05	0.00	-3.24	6.6	-9.9	
11,988.0	0.53	335.17	11,961.0	-207.9	-302.1	0.34	-0.27	17.58	0.8	-11.3	
12,089.0	0.35	299.92	12,062.0	-207.4	-302.6	0.31	-0.18	-34.90	6.5	-9.1	
12,184.0	0.62	146.20	12,157.0	-207.6	-302.5	1.00	0.28	-161.81	-2.0	10.9	
12,279.0	1.32	147.70	12,252.0	-209.0	-301.7	0.74	0.74	1.58	-3.4	10.9	
12,373.0	1.14	132.49	12,346.0	-210.5	-300.4	0.39	-0.19	-16.18	-8.1	9.4	
12,468.0	1.14	133.99	12,441.0	-211.8	-299.0	0.03	0.00	1.58	-9.7	9.6	
12,563.0	1.49	131.53	12,535.9	-213.3	-297.4	0.37	0.37	-2.59	-12.3	9.1	
12,610.0	5.19	17.44	12,582.9	-211.7	-296.3	12.67	7.87	-242.75	-5.2	-15.5	
12,658.0	14.16	18.59	12,630.1	-204.0	-293.8	18.69	18.69	2.40	-12.7	-15.8	
12,705.0	19.87	18.06	12,675.1	-191.0	-289.5	12.15	12.15	-1.13	-22.2	-17.5	
12,753.0	22.95	16.04	12,719.7	-174.2	-284.4	6.60	6.42	-4.21	-31.4	-21.0	
12,800.0	23.04	14.81	12,763.0	-156.5	-279.5	1.04	0.19	-2.62	-38.0	-25.0	
12,848.0	25.50	5.32	12,806.8	-137.2	-276.1	9.59	5.13	-19.77	-37.2	-33.9	
12,895.0	31.57	0.04	12,848.1	-114.8	-275.2	13.97	12.91	-11.23	-37.1	-38.1	
12,943.0	34.91	359.60	12,888.2	-88.4	-275.3	6.98	6.96	-0.92	-39.6	-38.4	
12,990.0	40.01	357.41	12,925.5	-59.9	-276.0	11.21	10.85	-4.66	-40.4	-39.1	
13,038.0	49.51	352.13	12,959.6	-26.3	-279.2	21.24	19.79	-11.00	-41.9	-39.0	
13,086.0	53.46	352.57	12,989.4	10.9	-284.2	8.26	8.23	0.92	-47.6	-34.2	



Midland PVA



Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #740H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3366.0usft (H&P 653)
Site:	Condor 32 State Corn	MD Reference:	KB = 25 @ 3366.0usft (H&P 653)
Well:	#740H	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)	
13,134.0	54.69	353.27	13,017.6	49.5	-289.0	2.82	2.56	1.46	-51.2	-29.1	
13,154.6	55.35	353.97	13,029.4	66.3	-290.9	4.24	3.18	3.42	-51.8	-26.9	
FTP Crossing 13154.6' MD; 13029.4' TVD; 66.3°; -290.9°; 55.35											
13,181.0	56.19	354.86	13,044.3	88.0	-293.0	4.24	3.20	3.38	-51.6	-24.4	
13,229.0	58.39	357.84	13,070.2	128.3	-295.6	6.95	4.58	6.21	-49.2	-20.7	
13,276.0	59.88	357.93	13,094.3	168.6	-297.1	3.17	3.17	0.19	-43.5	-19.4	
13,324.0	64.72	358.11	13,116.6	211.1	-298.5	10.09	10.08	0.38	-36.1	-18.1	
13,372.0	75.27	1.27	13,133.0	256.1	-298.7	22.83	21.98	6.58	-31.2	-17.6	
13,419.0	77.47	2.06	13,144.1	301.7	-297.4	4.96	4.68	1.68	-27.1	-19.4	
13,467.0	78.52	358.20	13,154.1	348.7	-297.3	8.16	2.19	-8.04	-19.9	-20.2	
13,514.0	83.80	356.61	13,161.3	395.1	-299.4	11.72	11.23	-3.38	-12.7	-18.4	
13,562.0	83.80	355.47	13,166.5	442.7	-302.7	2.36	0.00	-2.38	-7.2	-15.5	
13,610.0	84.42	355.47	13,171.4	490.3	-306.5	1.29	1.29	0.00	-2.0	-12.0	
13,658.0	86.61	356.61	13,175.2	538.0	-309.8	5.14	4.56	2.38	2.1	-9.1	
13,705.0	87.67	359.69	13,177.5	584.9	-311.3	6.92	2.26	6.55	4.7	-8.0	
13,752.0	88.37	359.69	13,179.1	631.9	-311.5	1.49	1.49	0.00	6.7	-8.1	
13,801.0	88.81	359.08	13,180.3	680.9	-312.1	1.53	0.90	-1.24	8.2	-8.0	
13,896.0	88.72	359.43	13,182.4	775.8	-313.3	0.38	-0.09	0.37	10.9	-7.6	
13,990.0	89.34	0.57	13,184.0	869.8	-313.3	1.38	0.66	1.21	13.2	-8.3	
14,085.0	91.28	359.69	13,183.5	964.8	-313.1	2.24	2.04	-0.93	13.3	-9.3	
14,180.0	87.76	356.97	13,184.3	1,059.7	-315.9	4.68	-3.71	-2.86	14.9	-7.4	
14,275.0	88.81	355.74	13,187.1	1,154.5	-321.9	1.70	1.11	-1.29	18.5	-2.1	
14,370.0	91.89	357.05	13,186.5	1,249.3	-327.9	3.52	3.24	1.38	18.6	3.1	
14,465.0	91.01	357.05	13,184.1	1,344.1	-332.8	0.93	-0.93	0.00	17.0	7.2	
14,503.0	90.84	356.97	13,183.5	1,382.1	-334.7	0.49	-0.45	-0.21	16.7	8.8	
14,598.0	91.19	358.28	13,181.8	1,477.0	-338.7	1.43	0.37	1.38	15.8	12.0	
14,693.0	93.30	358.46	13,178.1	1,571.9	-341.4	2.23	2.22	0.19	12.8	13.9	



Midland PVA



Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Condor 32 State Com
Well: #740H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #740H
TVD Reference: KB = 25 @ 3366.0usft (H&P 653)
MD Reference: KB = 25 @ 3366.0usft (H&P 653)
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)
14,788.0	93.74	357.58	13,172.3	1,666.6	-344.7	1.03	0.46	-0.93	7.7	16.4
14,883.0	91.45	359.34	13,168.0	1,761.5	-347.2	3.04	-2.41	1.85	4.2	18.2
14,978.0	90.57	2.94	13,166.3	1,856.4	-345.3	3.80	-0.93	3.79	3.3	15.5
15,073.0	87.58	1.54	13,167.8	1,951.3	-341.6	3.48	-3.15	-1.47	5.6	11.0
15,174.0	89.78	1.36	13,170.2	2,052.3	-339.0	2.19	2.18	-0.18	8.7	7.6
15,269.0	89.25	357.67	13,171.0	2,147.3	-339.8	3.92	-0.56	-3.88	10.3	7.6
15,364.0	89.69	356.26	13,171.8	2,242.1	-344.9	1.55	0.46	-1.48	12.0	11.8
15,459.0	90.75	355.38	13,171.5	2,336.9	-351.8	1.45	1.12	-0.93	12.5	18.0
15,554.0	93.65	356.00	13,167.8	2,431.5	-358.9	3.12	3.05	0.65	9.7	24.3
15,649.0	90.40	354.94	13,164.5	2,526.2	-366.4	3.60	-3.42	-1.12	7.1	31.0
15,744.0	89.25	358.20	13,164.8	2,621.0	-372.1	3.64	-1.21	3.43	8.2	35.9
15,871.0	89.43	3.82	13,166.2	2,747.9	-369.9	4.43	0.14	4.43	10.7	32.6
15,966.0	91.98	1.98	13,165.1	2,842.8	-365.1	3.31	2.68	-1.94	10.3	27.1
16,061.0	91.36	6.19	13,162.3	2,937.5	-358.3	4.48	-0.65	4.43	8.4	19.5
16,155.0	89.16	2.06	13,161.9	3,031.2	-351.5	4.98	-2.34	-4.39	8.8	12.0
16,251.0	87.93	357.49	13,164.3	3,127.1	-351.9	4.93	-1.28	-4.76	12.0	11.6
16,346.0	90.31	358.20	13,165.8	3,222.0	-355.5	2.61	2.51	0.75	14.3	14.3
16,441.0	89.34	357.41	13,166.1	3,317.0	-359.1	1.32	-1.02	-0.83	15.4	17.2
16,535.0	93.74	358.46	13,163.5	3,410.9	-362.5	4.81	4.68	1.12	13.6	19.8
16,630.0	88.20	355.56	13,161.9	3,505.7	-367.5	6.58	-5.83	-3.05	12.8	24.0
16,726.0	89.16	356.61	13,164.1	3,601.4	-374.0	1.48	1.00	1.09	15.9	29.7
16,821.0	92.07	357.05	13,163.1	3,696.2	-379.3	3.10	3.06	0.46	15.7	34.2
16,915.0	93.39	0.57	13,158.6	3,790.1	-381.2	4.00	1.40	3.74	11.9	35.4
17,010.0	92.24	1.27	13,154.0	3,885.0	-379.7	1.42	-1.21	0.74	8.1	33.1
17,105.0	93.30	1.98	13,149.4	3,979.8	-377.0	1.34	1.12	0.75	4.2	29.6
17,200.0	93.12	1.10	13,144.1	4,074.6	-374.5	0.94	-0.19	-0.93	-0.3	26.2
17,295.0	91.89	1.01	13,139.9	4,169.5	-372.7	1.30	-1.29	-0.09	-3.7	23.7



Midland PVA



Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Condor 32 State Com
Well: #740H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #740H
TVD Reference: KB = 25 @ 3366.0usft (H&P 653)
MD Reference: KB = 25 @ 3366.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
17,390.0	93.03	0.04	13,135.8	4,264.4	-371.9	1.57	1.20	-1.02	-7.0	22.0	
17,485.0	88.55	0.48	13,134.5	4,359.4	-371.4	4.74	-4.72	0.46	-7.5	20.8	
17,579.0	91.19	0.04	13,134.7	4,453.4	-371.0	2.85	2.81	-0.47	-6.5	19.6	
17,674.0	91.98	359.43	13,132.1	4,548.3	-371.4	1.05	0.83	-0.64	-8.4	19.3	
17,769.0	91.98	359.51	13,128.8	4,643.3	-372.3	0.08	0.00	0.08	-10.9	19.4	
17,864.0	88.64	358.81	13,128.3	4,738.2	-373.7	3.59	-3.52	-0.74	-10.7	20.0	
17,959.0	90.13	1.45	13,129.3	4,833.2	-373.5	3.19	1.57	2.78	-8.9	19.0	
18,055.0	89.25	0.31	13,129.8	4,928.2	-372.0	1.50	-0.92	-1.19	-7.6	16.7	
18,150.0	88.02	358.64	13,132.1	5,024.2	-372.9	2.18	-1.29	-1.76	-4.6	16.8	
18,245.0	91.36	358.46	13,132.6	5,119.1	-375.3	3.52	3.52	-0.19	-3.2	18.4	
18,340.0	92.68	0.39	13,129.3	5,214.0	-376.2	2.46	1.39	2.03	-5.7	18.6	
18,435.0	92.95	359.95	13,124.6	5,308.9	-376.0	0.54	0.28	-0.46	-9.5	17.5	
18,529.0	92.07	359.69	13,120.5	5,402.8	-376.3	0.98	-0.94	-0.28	-12.8	17.0	
18,625.0	92.33	358.02	13,116.8	5,498.7	-378.2	1.76	0.27	-1.74	-15.6	18.1	
18,720.0	92.77	359.69	13,112.6	5,593.6	-380.1	1.82	0.46	1.76	-18.9	19.2	
18,815.0	90.57	1.18	13,109.8	5,688.6	-379.3	2.80	-2.32	1.57	-20.9	17.7	
18,910.0	89.34	0.92	13,109.9	5,783.6	-377.6	1.32	-1.29	-0.27	-19.9	15.2	
19,005.0	88.90	1.71	13,111.3	5,878.5	-375.4	0.95	-0.46	0.83	-17.6	12.2	
19,100.0	88.99	1.71	13,113.1	5,973.5	-372.6	0.09	0.09	0.00	-15.0	8.6	
19,196.0	90.57	2.33	13,113.5	6,069.4	-369.2	1.77	1.65	0.65	-13.8	4.4	
19,291.0	91.10	1.18	13,112.1	6,164.3	-366.3	1.33	0.56	-1.21	-14.3	0.7	
19,386.0	89.43	0.92	13,111.6	6,259.3	-364.6	1.78	-1.76	-0.27	-13.9	-1.8	
19,481.0	87.23	1.71	13,114.4	6,354.2	-362.4	2.46	-2.32	0.83	-10.3	-4.8	
19,577.0	90.04	359.43	13,116.7	6,450.2	-361.4	3.77	2.93	-2.38	-7.1	-6.5	
19,672.0	91.36	359.87	13,115.5	6,545.2	-362.0	1.46	1.39	0.46	-7.4	-6.7	
19,767.0	94.62	358.46	13,110.6	6,640.0	-363.4	3.74	3.43	-1.48	-11.5	-6.1	
19,862.0	89.60	357.41	13,107.1	6,734.9	-366.8	5.40	-5.28	-1.11	-14.1	-3.5	



Midland PVA



Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Condor 32 State Com
Well: #740H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #740H
TVD Reference: KB = 25 @ 3366.0usft (H&P 653)
MD Reference: KB = 25 @ 3366.0usft (H&P 653)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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)	
19,957.0	90.66	356.79	13,106.9	6,829.8	-371.6	1.29	1.12	-0.65	-13.5	0.5	
20,052.0	89.96	356.70	13,106.4	6,924.6	-377.0	0.74	-0.74	-0.09	-13.2	5.1	
20,147.0	90.22	358.81	13,106.2	7,019.5	-380.7	2.24	0.27	2.22	-12.4	8.1	
20,242.0	93.47	359.34	13,103.1	7,114.4	-382.3	3.47	3.42	0.56	-14.6	8.8	
20,337.0	92.86	357.93	13,097.9	7,209.3	-384.5	1.62	-0.64	-1.48	-19.0	10.3	
20,432.0	96.46	358.46	13,090.2	7,303.9	-387.5	3.83	3.79	0.56	-25.9	12.6	
Last MWD Survey (MD = 20432.0)											
20,451.5	96.46	358.46	13,088.0	7,323.3	-388.0	0.00	0.00	0.00	-27.9	12.9	
LTP Crossing 20451.5' MD; 13088.0' TVD; 7323.3'; -388.0'; 96.46											
20,551.0	96.46	358.46	13,076.8	7,422.1	-390.7	0.00	0.00	0.00	-38.2	14.8	
Projection to Bit (MD = 20551.0)											

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
13,154.6	13,029.4	66.3	-290.9	FTP Crossing 13154.6' MD; 13029.4' TVD; 66.3'; -290.9'; 55.35
20,432.0	13,090.2	7,303.9	-387.5	Last MWD Survey (MD = 20432.0)
20,451.5	13,088.0	7,323.3	-388.0	LTP Crossing 20451.5' MD; 13088.0' TVD; 7323.3'; -388.0'; 96.46
20,551.0	13,076.8	7,422.1	-390.7	Projection to Bit (MD = 20551.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Condor 32 State Com #740H

H&P 653

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: #740H

KB = 25 @ 3368.0ush (H&P 653) 3341.0
Northing 334021.00 Easting 801890.00 Latitude 32° 4' 49.622 N Longitude 103° 29' 51.613 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSECT	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3100.0	2.00	235.86	3100.0	-1.0	-1.4	2.00	235.86	-0.9	
4	5012.2	2.00	235.86	5011.0	-38.4	-56.7	0.00	0.00	-35.5	
5	5242.5	6.81	235.86	5240.6	-48.1	-71.0	2.00	0.01	-44.5	
6	7615.0	6.81	235.86	7597.4	-201.3	-296.9	0.00	0.00	-186.0	
7	7945.4	0.00	0.00	7927.0	-212.0	-312.7	2.00	180.00	-195.9	KOP (Condor 32 SC #740H)
8	12619.8	0.00	0.00	12601.4	-212.0	-312.7	0.00	0.00	-195.9	
9	13523.8	90.40	359.52	13174.3	365.0	-317.5	10.00	359.52	380.8	TGT #1(Condor 32 SC #740H)
10	14143.8	90.40	359.52	13170.0	984.9	-322.6	0.00	0.00	1000.0	TGT #2(Condor 32 SC #740H)
11	14146.6	90.46	359.52	13170.0	987.7	-322.6	2.00	0.00	1002.8	
12	15144.7	90.46	359.52	13162.0	1985.8	-330.9	0.00	0.00	2000.0	TGT #4(Condor 32 SC #740H)
13	15146.2	90.49	359.52	13162.0	1987.2	-330.9	2.00	0.00	2001.4	
14	17146.6	90.49	359.52	13145.0	3987.5	-347.5	0.00	0.00	4000.0	TGT #5(Condor 32 SC #740H)
15	17148.0	90.48	359.52	13145.0	3988.9	-347.5	2.00	180.00	4001.4	
16	18147.5	90.46	359.52	13137.0	4988.4	-355.8	0.00	0.00	5000.0	PBHL (Condor 32 SC #740H)
17	18150.5	90.52	359.52	13137.0	4991.4	-355.8	2.00	0.00	5003.0	
18	20583.3	90.52	359.52	13115.0	7424.0	-376.0	0.00	0.00	7433.5	

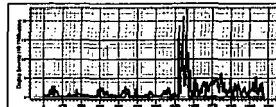
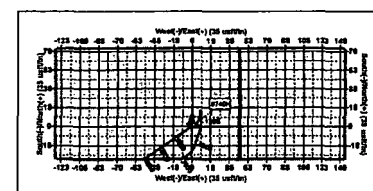
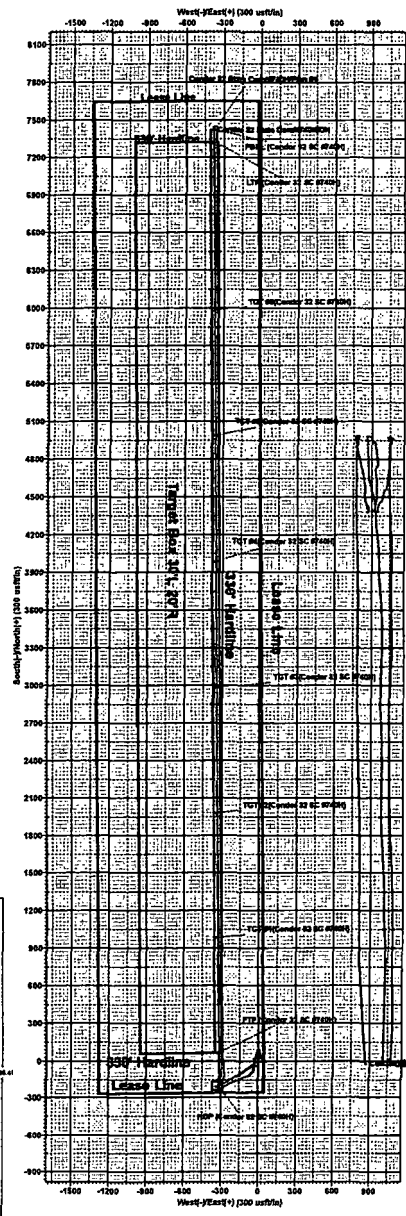
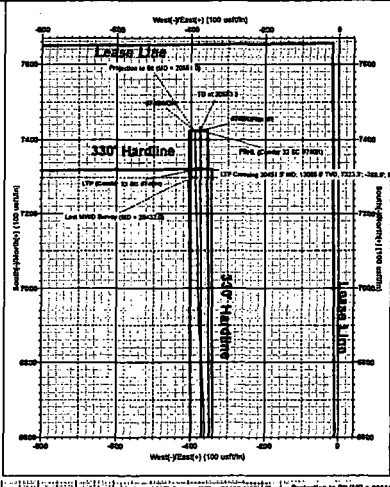
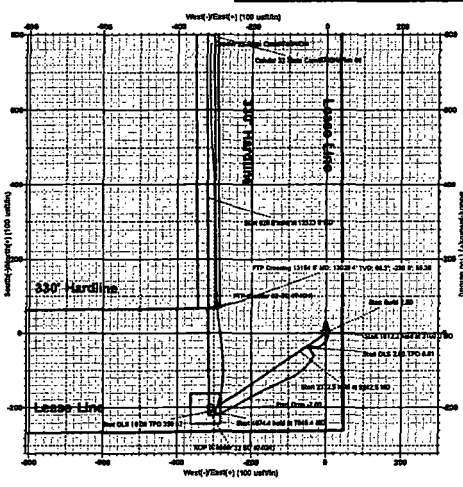
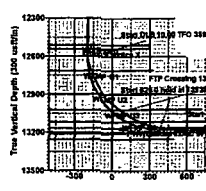
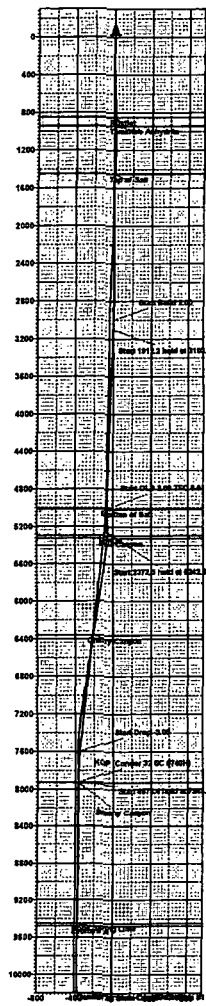
To convert a Magnetic Direction to a Grid Direction, Add 9.37°
To convert a Magnetic Direction to a True Direction, Add 6.82° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

CASINGS DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP (Condor 32 SC #740H)	7927.0	-212.0	-312.7	333809.01	801677.32
PBHL (Condor 32 SC #740H)	13115.0	7424.0	-376.0	401445.00	801614.00
TGT #1(Condor 32 SC #740H)	13115.0	7324.0	-376.0	401345.00	801616.00
TGT #2(Condor 32 SC #740H)	13129.0	6983.2	-364.1	400010.20	801625.90
TGT #3(Condor 32 SC #740H)	13137.0	4898.4	-365.8	399005.40	801534.20
TGT #4(Condor 32 SC #740H)	13146.0	3987.5	-347.5	398006.50	801642.50
TGT #5(Condor 32 SC #740H)	13164.0	2986.7	-330.2	397007.70	801650.80
TGT #6(Condor 32 SC #740H)	13162.0	1988.8	-330.9	396006.80	801559.10
TGT #7(Condor 32 SC #740H)	13170.0	894.9	-322.6	395005.50	801587.40
FTP (Condor 32 SC #740H)	13175.0	68.0	-315.0	394009.00	801575.00



Lea County, NM (NAD 83 NME)
Condor 32 State Com #740H
H&P 653
Plan #1