



Lea County, NM (NAD 27 NME)

Condor 32 State #703H

H&P 620

Plan #2

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #703H

Ground Level: 3321.0
KB = 25 @ 3346.0usft (H&P 620)
Northing: 398833.00 Easting: 762477.60
Latitude: 32° 5' 37.220 N Longitude: 103° 28' 5.770 W



Azimuths to Grid North
True North: -4.45°
Magnetic North: 6.64°
Magnetic Field
Strength: 48051.5nT
Dip Angle: 59.98°
Date: 9/12/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.64°
To convert a Magnetic Direction to a True Direction, Add 7.10° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

SECTION DETAILS

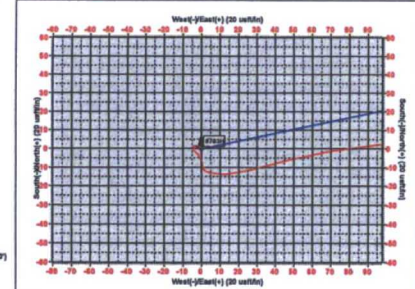
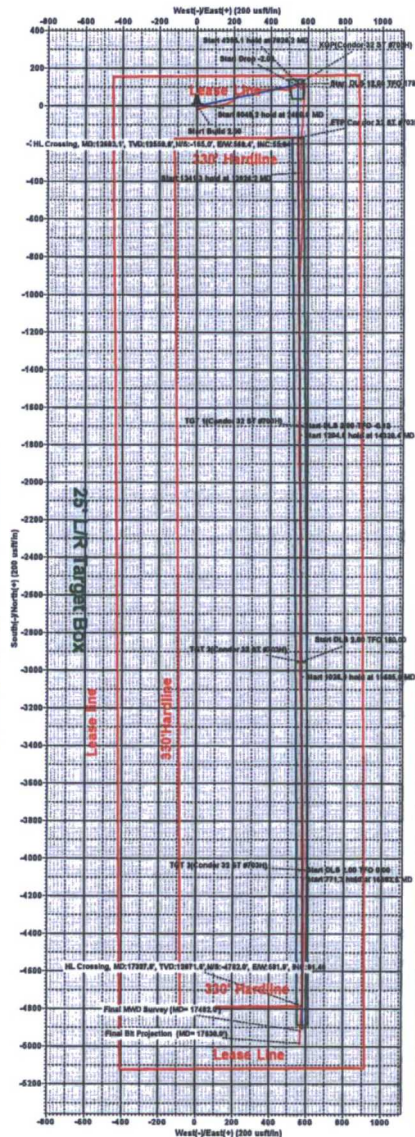
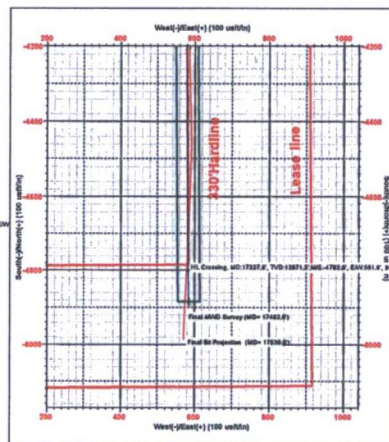
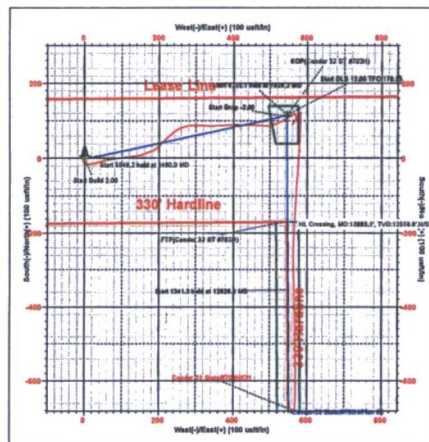
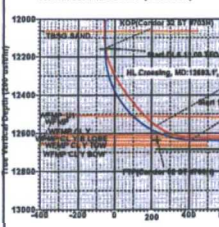
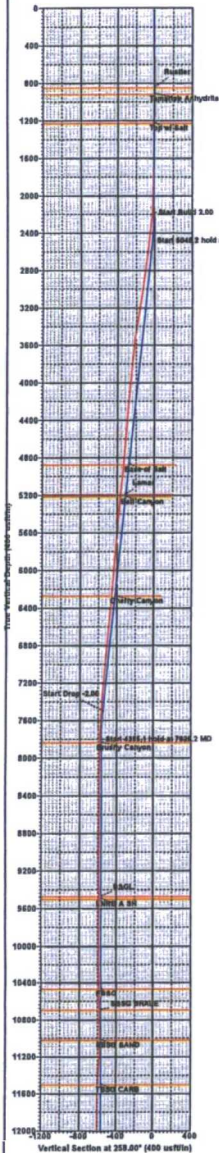
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2180.0	0.00	0.00	2180.0	0.0	0.0	0.00	0.00	0.0	
2480.0	6.00	78.00	2479.5	3.3	15.4	2.00	78.00	-1.4	
7528.2	6.00	78.00	7500.0	113.0	531.5	0.00	0.00	-48.8	
7828.2	0.00	0.00	7799.5	116.2	546.9	2.00	180.00	-50.2	
12183.4	0.00	0.00	12154.6	116.2	546.9	0.00	0.00	-50.2	
12926.2	89.15	179.55	12632.0	-354.1	550.5	12.00	179.55	417.2	
14267.5	89.15	179.55	12652.0	-1695.2	561.0	0.00	0.00	1750.0	TGT 1(Condor 32 ST #703H)
14320.4	90.20	179.55	12652.3	-1748.1	561.4	2.00	-0.12	1802.6	
15525.4	90.20	179.55	12648.0	-2953.0	570.9	0.00	0.00	3000.0	TGT 2(Condor 32 ST #703H)
15605.8	88.60	179.55	12648.8	-3033.4	571.5	2.00	180.00	3079.9	
16632.6	88.60	179.55	12674.0	-4059.9	579.5	0.00	0.00	4100.0	TGT 3(Condor 32 ST #703H)
16683.5	89.61	179.55	12674.8	-4110.8	579.9	2.00	0.00	4150.6	
17454.8	89.61	179.55	12680.0	-4882.0	586.0	0.00	0.00	4917.0	PBHL(Condor 32 ST #703H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Condor 32 ST #703H)	12154.5	116.2	546.9	398949.24	763023.85
FTFV(Condor 32 ST #703H)	13832.0	-165.0	548.0	398667.00	763026.00
TGT 1(Condor 32 ST #703H)	12648.0	-2953.0	570.9	395880.00	763047.86
TGT 2(Condor 32 ST #703H)	12652.0	-1695.2	561.0	397137.80	763037.99
TGT 3(Condor 32 ST #703H)	12674.0	-4059.9	579.5	394773.10	763056.56
PBHL(Condor 32 ST #703H)	12680.0	-4882.0	586.0	393961.00	763063.00



Lea County, NM (NAD 27 NME)
Condor 32 State #703H
H&P 620
Plan #2

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Condor 32 State

#703H

OH

Design: OH

PVA Report

15 August, 2017

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3346.0usft (H&P 620)
Site:	Condor 32 State	MD Reference:	KB = 25 @ 3346.0usft (H&P 620)
Well:	#703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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	Condor 32 State		
Site Position:		Northing:	398,833.00 usft
From:	Map	Easting:	762,418.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 37.225 N
		Longitude:	103° 29' 9.456 W
		Grid Convergence:	0.45 °

Well		#703H				
Well Position	+N/-S	0.0 usft	Northing:	398,833.00 usft	Latitude:	32° 5' 37.220 N
	+E/-W	0.0 usft	Easting:	762,477.00 usft	Longitude:	103° 29' 8.770 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,321.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/12/2015	7.10	59.98	48,051.51501782

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	173.16	

Survey Program	Date	8/15/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
191.0	17,530.0	Intrepid MWD (OH)	MWD	MWD - Standard

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Condor 32 State
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3346.0usft (H&P 620)
 MD Reference: KB = 25 @ 3346.0usft (H&P 620)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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	
191.0	0.30	311.40	191.0	0.3	-0.4	0.16	0.16	0.00	-0.5	0.0	
280.0	0.70	317.50	280.0	0.9	-0.9	0.45	0.45	6.85	-1.3	0.1	
371.0	0.60	280.40	371.0	1.4	-1.8	0.47	-0.11	-40.77	-2.0	-1.0	
511.0	0.50	296.60	511.0	1.8	-3.0	0.13	-0.07	11.57	-3.5	-0.2	
627.0	0.40	239.60	627.0	1.8	-3.8	0.38	-0.09	-49.14	-2.4	-3.5	
758.0	0.70	191.10	758.0	0.8	-4.4	0.40	0.23	-37.02	-0.1	-4.4	
828.0	0.70	153.10	828.0	0.0	-4.3	0.65	0.00	-54.29	1.9	-3.8	
964.0	0.70	129.40	964.0	-1.3	-3.2	0.21	0.00	-17.43	1.7	-3.0	
1,149.0	0.60	142.50	1,148.9	-2.8	-1.8	0.10	-0.05	7.08	-1.1	-3.1	
1,334.0	0.70	152.50	1,333.9	-4.5	-0.7	0.08	0.05	5.41	-3.7	-2.7	
1,518.0	0.90	161.30	1,517.9	-6.9	0.3	0.13	0.11	4.78	-6.6	-1.9	
1,705.0	1.20	170.60	1,704.9	-10.2	1.1	0.18	0.16	4.97	-10.3	-0.6	
1,892.0	2.00	99.60	1,891.8	-12.7	4.6	1.05	0.43	-37.97	-6.7	-11.7	
2,078.0	2.80	94.60	2,077.7	-13.6	12.4	0.44	0.43	-2.69	-13.4	-12.6	
2,266.0	5.80	74.40	2,265.1	-11.4	26.1	1.76	1.60	-10.74	-20.8	-18.0	
2,453.0	6.70	76.10	2,451.0	-6.3	45.8	0.49	0.48	0.91	-30.0	-16.6	
2,641.0	7.30	79.80	2,637.6	-1.5	68.2	0.40	0.32	1.97	-34.4	-14.6	
2,829.0	8.20	83.30	2,823.9	2.2	93.3	0.54	0.48	1.86	-41.0	-13.6	
3,016.0	9.50	84.60	3,008.7	5.2	121.9	0.70	0.70	0.70	-50.7	-14.6	
3,204.0	9.50	74.30	3,194.1	10.8	152.3	0.90	0.00	-5.48	-58.6	-24.9	
3,391.0	9.60	66.30	3,378.5	21.3	181.4	0.71	0.05	-4.28	-66.4	-31.0	
3,579.0	6.70	44.20	3,564.6	35.5	203.4	2.24	-1.54	-11.76	-59.2	-48.5	
3,767.0	7.00	44.00	3,751.3	51.6	219.0	0.16	0.16	-0.11	-65.2	-37.7	
3,955.0	6.60	51.30	3,938.0	66.6	235.4	0.51	-0.21	3.88	-74.0	-18.9	
4,143.0	5.60	57.40	4,124.9	78.3	251.5	0.63	-0.53	3.24	-77.1	-3.0	
4,330.0	4.50	74.50	4,311.2	85.1	266.3	0.99	-0.59	9.14	-71.1	23.6	

PVA Report

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Site: Condor 32 State
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3346.0usft (H&P 620)
MD Reference: KB = 25 @ 3346.0usft (H&P 620)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
4,518.0	4.10	77.90	4,498.7	88.5	280.0	0.25	-0.21	1.81	-64.0	28.3
4,707.0	5.20	86.40	4,687.0	90.5	295.1	0.69	0.58	4.50	-54.9	35.5
4,895.0	5.50	97.30	4,874.2	89.9	312.6	0.56	0.16	5.80	-46.0	40.3
5,083.0	6.10	90.60	5,061.3	88.6	331.5	0.48	0.32	-3.56	-50.2	29.3
5,271.0	5.50	87.30	5,248.3	88.9	350.5	0.37	-0.32	-1.76	-51.3	22.7
5,458.0	4.80	88.30	5,434.5	89.6	367.3	0.38	-0.37	0.53	-48.5	20.2
5,646.0	4.90	87.70	5,621.9	90.1	383.1	0.06	0.05	-0.32	-45.2	16.3
5,834.0	4.90	88.50	5,809.2	90.7	399.2	0.04	0.00	0.43	-41.7	13.5
6,022.0	4.90	89.30	5,996.5	91.0	415.3	0.04	0.00	0.43	-38.3	10.3
6,209.0	5.00	89.90	6,182.8	91.1	431.4	0.06	0.05	0.32	-35.1	6.8
6,397.0	4.90	91.40	6,370.1	90.9	447.6	0.09	-0.05	0.80	-32.0	3.3
6,585.0	5.10	93.10	6,557.4	90.3	464.0	0.13	0.11	0.90	-29.3	-0.6
6,772.0	5.30	94.90	6,743.6	89.1	480.9	0.14	0.11	0.96	-27.5	-5.1
6,960.0	5.90	82.70	6,930.7	89.6	499.1	0.71	0.32	-6.49	-24.4	-14.2
7,147.0	5.60	70.40	7,116.8	93.8	517.2	0.68	-0.16	-6.58	-20.0	-18.5
7,335.0	4.80	60.90	7,304.0	100.7	532.8	0.62	-0.43	-5.05	-14.8	-17.3
7,523.0	4.30	61.90	7,491.4	107.9	545.9	0.27	-0.27	0.53	-11.1	-11.5
7,695.0	3.60	54.70	7,663.0	114.0	555.9	0.50	-0.41	-4.19	-9.1	-8.3
7,883.0	2.20	49.60	7,850.8	119.8	563.5	0.76	-0.74	-2.71	-15.0	-8.1
8,070.0	0.20	34.60	8,037.7	122.4	566.4	1.07	-1.07	-8.02	-16.2	-12.6
8,257.0	0.40	157.00	8,224.7	122.1	566.9	0.29	0.11	65.45	-2.5	20.7
8,445.0	1.20	127.50	8,412.7	120.3	568.7	0.47	0.43	-15.69	-14.9	16.5
8,632.0	0.30	208.80	8,599.7	118.6	570.0	0.64	-0.48	43.48	13.3	19.1
8,820.0	0.20	183.90	8,787.7	117.9	569.8	0.08	-0.05	-13.24	3.2	22.7
9,007.0	0.20	141.10	8,974.7	117.3	569.9	0.08	0.00	-22.89	-13.7	18.6
9,194.0	0.40	192.00	9,161.7	116.4	570.0	0.17	0.11	27.22	5.0	22.6
9,382.0	0.50	217.40	9,349.7	115.1	569.4	0.12	0.05	13.51	12.8	18.6

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Condor 32 State
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3346.0usft (H&P 620)
 MD Reference: KB = 25 @ 3346.0usft (H&P 620)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
9,569.0	0.00	134.50	9,536.7	114.5	568.9	0.27	-0.27	0.00	1.8	-22.0
9,756.0	0.90	104.10	9,723.7	114.1	570.3	0.48	0.48	0.00	-23.3	3.6
9,944.0	0.70	148.50	9,911.6	112.8	572.3	0.34	-0.11	23.62	-16.3	19.9
10,131.0	2.10	198.90	10,098.6	108.5	571.8	0.93	0.75	26.95	0.8	26.1
10,318.0	1.10	239.40	10,285.5	104.4	569.2	0.78	-0.53	21.66	13.2	21.6
10,507.0	1.30	189.90	10,474.5	101.4	567.2	0.54	0.11	-26.19	-11.2	22.6
10,694.0	1.40	219.60	10,661.4	97.5	565.4	0.37	0.05	15.88	-2.6	26.2
10,881.0	1.10	222.70	10,848.4	94.4	562.7	0.16	-0.16	1.66	-5.3	26.5
11,068.0	0.70	190.50	11,035.4	92.0	561.3	0.34	-0.21	-17.22	-21.2	18.6
11,254.0	7.30	30.80	11,220.9	101.0	567.2	4.28	3.55	-85.86	2.6	-25.2
11,441.0	3.40	50.00	11,407.1	114.8	577.5	2.27	-2.09	10.27	-22.5	-20.8
11,628.0	1.70	42.70	11,593.9	120.4	583.6	0.92	-0.91	-3.90	-28.0	-24.2
11,815.0	0.40	315.60	11,780.8	122.9	585.1	0.92	-0.70	-46.58	22.0	-32.0
11,893.0	0.50	315.60	11,858.8	123.4	584.6	0.13	0.13	0.00	21.3	-32.0
12,037.0	0.70	254.50	12,002.8	123.6	583.3	0.44	0.14	-42.43	37.1	2.7
12,130.0	0.20	193.40	12,095.8	123.3	582.8	0.68	-0.54	-65.70	15.1	33.3
12,176.0	7.20	176.30	12,141.7	120.3	582.9	15.24	15.22	-37.17	1.7	36.3
12,224.0	16.30	177.90	12,188.7	110.5	583.4	18.97	18.96	3.33	-5.7	36.3
12,270.0	22.70	181.40	12,232.0	95.2	583.4	14.14	13.91	7.61	-13.4	36.9
12,318.0	26.80	181.60	12,275.6	75.1	582.9	8.54	8.54	0.42	-23.4	36.7
12,364.0	31.70	182.80	12,315.7	52.7	582.0	10.73	10.65	2.61	-31.5	36.5
12,412.0	34.90	183.80	12,355.8	26.4	580.4	6.76	6.67	2.08	-38.7	35.6
12,458.0	37.70	184.30	12,392.9	-0.8	578.5	6.12	6.09	1.09	-43.4	33.8
12,506.0	40.30	183.60	12,430.2	-30.9	576.4	5.49	5.42	-1.46	-45.9	30.9
12,552.0	42.90	182.90	12,464.6	-61.4	574.7	5.74	5.65	-1.52	-45.2	28.4
12,600.0	45.50	183.50	12,499.0	-94.8	572.8	5.49	5.42	1.25	-41.0	26.3
12,646.0	47.60	183.80	12,530.6	-128.2	570.7	4.59	4.57	0.65	-34.0	23.7

PVA Report

Company: EOG Resources - Midland
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Site: Condor 32 State
Well: #703H
Wellbore: OH
Design: OH

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12,694.0	56.00	183.30	12,560.3	-165.8	568.4	17.52	17.50	-1.04	-26.5	20.3
12,740.0	63.40	182.90	12,583.5	-205.4	566.3	16.10	16.09	-0.87	-20.8	17.4
12,788.0	69.90	180.60	12,602.5	-249.4	564.9	14.24	13.54	-4.79	-15.7	15.4
12,834.0	79.60	178.30	12,614.6	-293.7	565.4	21.63	21.09	-5.00	-12.6	15.3
12,880.0	87.30	178.50	12,619.8	-339.4	566.7	16.74	16.74	0.43	-11.8	16.2
12,893.0	87.80	178.30	12,620.4	-352.4	567.0	4.14	3.85	-1.54	-11.6	16.5
12,987.0	89.70	178.80	12,622.4	-446.3	569.4	2.09	2.02	0.53	-11.0	18.1
13,081.0	89.20	179.00	12,623.3	-540.3	571.2	0.57	-0.53	0.21	-11.5	19.2
13,175.0	90.70	181.40	12,623.4	-634.3	570.9	3.01	1.60	2.55	-12.8	18.2
13,269.0	90.40	182.00	12,622.5	-728.2	568.1	0.71	-0.32	0.64	-15.1	14.6
13,363.0	89.70	182.80	12,622.4	-822.2	564.1	1.13	-0.74	0.85	-16.6	10.0
13,456.0	92.40	182.70	12,620.7	-915.0	559.7	2.91	2.90	-0.11	-19.6	4.8
13,550.0	91.40	181.10	12,617.6	-1,008.9	556.6	2.01	-1.06	-1.70	-24.2	0.9
13,644.0	90.60	180.20	12,616.0	-1,102.9	555.5	1.28	-0.85	-0.96	-27.2	-0.9
13,737.0	90.30	180.00	12,615.2	-1,195.9	555.3	0.39	-0.32	-0.22	-29.3	-1.8
13,831.0	89.70	179.90	12,615.2	-1,289.9	555.4	0.65	-0.64	-0.11	-30.7	-2.4
13,925.0	89.50	179.90	12,615.9	-1,383.9	555.6	0.21	-0.21	0.00	-31.5	-3.0
14,019.0	89.80	180.00	12,616.5	-1,477.9	555.7	0.34	0.32	0.11	-32.3	-3.6
14,113.0	90.00	179.90	12,616.6	-1,571.9	555.7	0.24	0.21	-0.11	-33.5	-4.3
14,206.0	89.50	180.30	12,617.0	-1,664.9	555.6	0.69	-0.54	0.43	-34.5	-5.2
14,300.0	89.80	180.70	12,617.6	-1,758.9	554.8	0.53	0.32	0.43	-34.7	-6.7
14,394.0	88.60	179.70	12,618.9	-1,852.9	554.4	1.66	-1.28	-1.06	-33.0	-7.8
14,488.0	90.42	177.70	12,619.7	-1,946.8	556.6	2.88	1.94	-2.13	-31.9	-6.4
14,582.0	92.48	177.20	12,617.3	-2,040.7	560.8	2.26	2.19	-0.53	-33.9	-2.9
14,675.0	95.87	177.10	12,610.6	-2,133.3	565.4	3.65	3.65	-0.11	-40.3	0.9
14,769.0	95.34	178.20	12,601.4	-2,226.8	569.2	1.29	-0.56	1.17	-49.2	4.1
14,863.0	93.41	179.42	12,594.2	-2,320.5	571.1	2.43	-2.05	1.30	-56.0	5.3

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Condor 32 State
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3346.0usft (H&P 620)
 MD Reference: KB = 25 @ 3346.0usft (H&P 620)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
14,957.0	90.90	181.26	12,590.7	-2,414.4	570.6	3.31	-2.67	1.96	-59.2	3.9
15,051.0	87.38	181.53	12,592.1	-2,508.4	568.3	3.76	-3.74	0.29	-57.5	0.9
15,144.0	86.77	181.18	12,596.8	-2,601.2	566.1	0.76	-0.66	-0.38	-52.4	-2.0
15,238.0	85.93	180.82	12,602.8	-2,695.0	564.5	0.97	-0.89	-0.38	-46.1	-4.4
15,332.0	86.33	181.00	12,609.2	-2,788.8	563.0	0.47	0.43	0.19	-39.4	-6.6
15,426.0	86.02	179.77	12,615.4	-2,882.6	562.3	1.35	-0.33	-1.31	-32.8	-8.0
15,520.0	85.32	178.72	12,622.5	-2,976.3	563.6	1.34	-0.74	-1.12	-25.5	-7.5
15,613.0	85.41	178.19	12,630.1	-3,069.0	566.1	0.58	0.10	-0.57	-19.6	-5.7
15,707.0	85.98	177.57	12,637.1	-3,162.6	569.5	0.89	0.61	-0.66	-14.9	-3.0
15,801.0	88.13	177.66	12,641.9	-3,256.4	573.5	2.29	2.29	0.10	-12.4	0.2
15,895.0	88.84	179.07	12,644.4	-3,350.3	576.1	1.68	0.76	1.50	-12.2	2.1
15,989.0	87.52	179.59	12,647.4	-3,444.3	577.2	1.51	-1.40	0.55	-11.5	2.5
16,083.0	88.18	178.89	12,650.9	-3,538.2	578.5	1.02	0.70	-0.74	-10.3	3.0
16,177.0	89.58	179.24	12,652.8	-3,632.2	580.0	1.54	1.49	0.37	-10.7	3.8
16,271.0	88.92	178.72	12,654.0	-3,726.1	581.7	0.89	-0.70	-0.55	-11.8	4.7
16,365.0	88.04	178.50	12,656.5	-3,820.1	584.0	0.96	-0.94	-0.23	-11.6	6.3
16,459.0	87.25	178.63	12,660.4	-3,914.0	586.3	0.85	-0.84	0.14	-10.1	7.9
16,552.0	87.43	180.12	12,664.7	-4,006.9	587.3	1.61	0.19	1.60	-8.0	8.2
16,646.0	88.44	179.59	12,668.1	-4,100.8	587.6	1.21	1.07	-0.56	-6.6	7.7
16,740.0	88.92	179.98	12,670.2	-4,194.8	587.9	0.66	0.51	0.41	-5.1	7.3
16,834.0	89.80	178.01	12,671.3	-4,288.8	589.6	2.30	0.94	-2.10	-4.7	8.2
16,928.0	89.63	178.72	12,671.8	-4,382.7	592.2	0.78	-0.18	0.76	-4.9	10.2
17,021.0	89.93	179.86	12,672.1	-4,475.7	593.4	1.27	0.32	1.23	-5.2	10.6
17,115.0	90.29	183.02	12,671.9	-4,569.7	591.0	3.38	0.38	3.36	-6.0	7.5
17,209.0	89.23	181.88	12,672.3	-4,663.6	587.0	1.66	-1.13	-1.21	-6.2	2.7
17,303.0	91.12	182.85	12,672.0	-4,757.5	583.1	2.26	2.01	1.03	-7.1	-1.9
17,396.0	92.40	182.93	12,669.2	-4,850.3	578.5	1.38	1.38	0.09	-10.6	-7.3

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Condor 32 State
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3346.0usft (H&P 620)
MD Reference: KB = 25 @ 3346.0usft (H&P 620)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

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)
17,462.0	92.48	182.41	12,666.4	-4,916.2	575.4	0.80	0.12	-0.79	-30.6	-23.1
17,530.0	92.48	182.41	12,663.4	-4,984.1	572.5	0.00	0.00	0.00	-83.2	-62.9

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,693.1	12,559.8	-165.0	568.4	HL Crossing, MD:12693.1', TVD:12559.8', N/S:-165.0', E/W:568.4', INC:55.84
17,327.6	12,671.5	-4,782.0	581.9	HL Crossing, MD:17327.6', TVD:12671.5', N/S:-4782.0', E/W:581.9', INC:91.46
17,462.0	12,666.4	-4,916.2	575.4	Final MWD Survey (MD= 17462.0')
17,530.0	12,663.4	-4,984.1	572.5	Final Bit Projection (MD= 17530.0')

Checked By: _____ Approved By: _____ Date: _____