



Lea County, NM (NAD 27 NME)

Calm Breeze 2Fed Com

#701H

Plan #1

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



Azimuths to Grid North
True North: -0.42°
Magnetic North: 6.61°
Magnetic Field
Strength: 47940.5nT
Dip Angle: 58.94°
Date: 8/22/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.61°
To convert a Magnetic Direction to a True Direction, Add 7.03° East
To convert a True Direction to a Grid Direction, Subtract 6.61°

WELL DETAILS: #701H

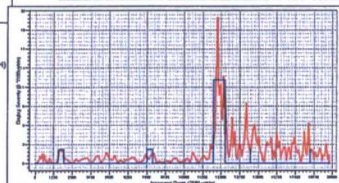
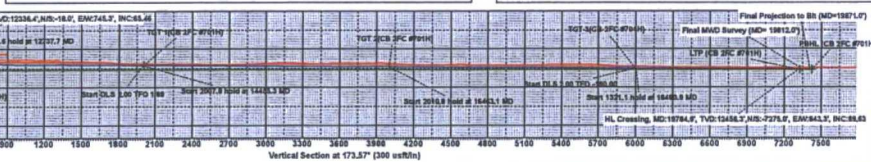
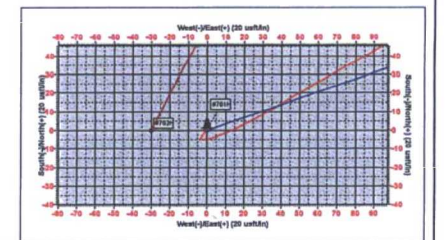
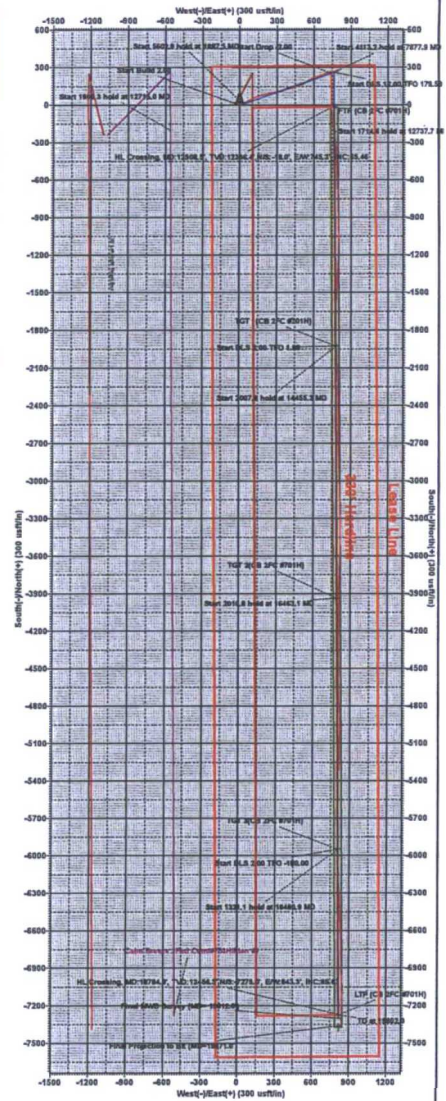
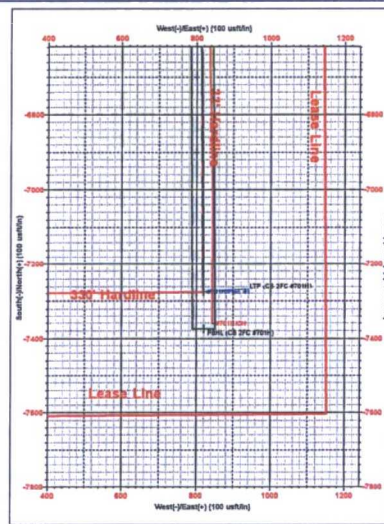
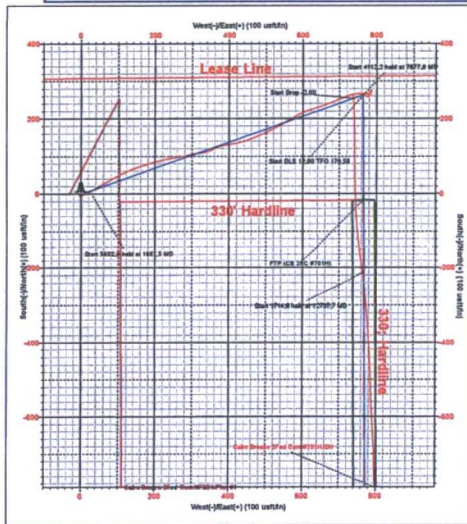
Ground Level: 3324.0
KB = 25 @ 3349.0m
Northing: 390531.00
Eastings: 743823.00 32° 4' 17.455 N
Longitude: 103° 32' 46.296 W
Slot

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1887.5	7.75	71.00	1886.3	8.5	24.7	2.00	71.00	-5.7	
4	7490.4	7.75	71.00	7438.0	254.5	739.1	0.00	0.00	-170.2	
5	7877.9	0.00	0.00	7824.3	263.0	763.9	2.00	180.00	-175.9	
6	11991.1	0.00	0.00	11937.5	263.0	763.9	0.00	0.00	-175.9	
7	12737.7	89.60	179.58	12415.0	-211.1	767.4	12.00	179.58	295.6	
8	14452.3	89.60	179.58	12427.0	-1925.6	780.0	0.00	0.00	2000.8	TGT 1(CB 2FC #701H)
9	14455.3	89.66	179.58	12427.0	-1928.6	780.0	2.00	1.88	2003.7	
10	16463.1	89.66	179.58	12439.0	-3936.3	794.8	0.00	0.00	4000.5	TGT 2(CB 2FC #701H)
11	18473.9	89.66	179.58	12451.0	-5947.0	809.5	0.00	0.00	6000.2	TGT 3(CB 2FC #701H)
12	18480.9	89.52	179.58	12451.1	-5954.0	809.6	2.00	-180.00	6007.2	
13	19802.0	89.52	179.58	12462.2	-7275.0	819.3	0.00	0.00	7321.0	LTP (CB 2FC #701H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Eastings	Shape
FTP (CB 2FC #701H)	12415.0	-17.0	766.0	390614.00	744688.00	Point
TGT 1(CB 2FC #701H)	12427.0	-1925.6	780.0	388705.40	744603.01	Point
TGT 2(CB 2FC #701H)	12439.0	-3936.3	794.8	386694.70	744617.76	Point
TGT 3(CB 2FC #701H)	12451.0	-5947.0	809.5	384684.00	744632.53	Point
LTP (CB 2FC #701H)	12462.2	-7275.0	819.3	383356.00	744642.27	Point
FBH (CB 2FC #701H)	12463.0	-7375.0	820.0	383256.00	744643.00	Rectangle (Sides: L:0.0 W:0.0)



Lea County, NM (NAD 27 NME)
Calm Breeze 2Fed Com
#701H
Plan #1
8/22/2016

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Calm Breeze 2Fed Com

#701H

OH

Design: OH

PVA Report

31 July, 2017

HOBBS OCD
OCT 25 2017
RECEIVED

EOG Resources

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3349.0usft
Site:	Calm Breeze 2Fed Com	MD Reference:	KB = 25 @ 3349.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 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	Calm Breeze 2Fed Com		
Site Position:		Northing:	390,631.00 usft
From:	Map	Easting:	743,823.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 17.455 N
		Longitude:	103° 32' 46.296 W
		Grid Convergence:	0.42 °

Well	#701H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			0.0 usft
			Latitude:
			32° 4' 17.455 N
			Longitude:
			103° 32' 46.296 W
			Ground Level:
			3,324.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	8/2/2016	7.03
			Dip Angle (°)
			59.94
			Field Strength (nT)
			47,940.47316233

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)
	0.0	0.0	0.0
			Direction (°)
			173.66

EOG Resources

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Calm Breeze 2Fed Com
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 3349.0usft
 MD Reference: KB = 25 @ 3349.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14 Single User Db

Survey Program Date 7/31/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
131.0	999.0	Invictus MWD (OH)	MWD	MWD - Standard
1,076.0	19,871.0	Intrepid MWD (OH)	MWD	MWD - Standard

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
131.0	0.30	302.90	131.0	0.2	-0.3	0.23	0.23	0.00	-0.3	0.0
247.0	0.40	175.90	247.0	-0.1	-0.5	0.54	0.09	-109.48	0.0	-0.5
304.0	0.30	54.90	304.0	-0.2	-0.4	1.07	-0.18	-212.28	0.4	0.1
332.0	0.50	82.90	332.0	-0.1	-0.2	0.98	0.71	100.00	0.2	-0.1
364.0	0.40	108.90	364.0	-0.1	0.0	0.70	-0.31	81.25	-0.1	-0.1
427.0	0.30	9.90	427.0	0.0	0.3	0.85	-0.16	-157.14	0.0	-0.3
458.0	0.10	176.90	458.0	0.0	0.3	1.28	-0.65	538.71	0.0	0.3
490.0	0.40	58.90	490.0	0.0	0.4	1.42	0.94	-368.75	-0.4	-0.2
521.0	0.30	57.90	521.0	0.1	0.6	0.32	-0.32	-3.23	-0.6	-0.2
552.0	0.40	64.90	552.0	0.2	0.7	0.35	0.32	22.58	-0.8	-0.1
584.0	0.20	345.90	584.0	0.3	0.8	1.29	-0.62	-246.87	-0.1	-0.9
741.0	0.40	247.90	741.0	0.4	0.2	0.30	0.13	-62.42	0.4	-0.3
866.0	0.40	258.90	866.0	0.1	-0.6	0.06	0.00	8.80	-0.6	-0.3
929.0	0.20	171.90	929.0	0.0	-0.8	0.69	-0.32	-138.10	0.1	-0.8
999.0	0.60	219.90	999.0	-0.4	-1.0	0.70	0.57	68.57	-1.0	-0.5
1,076.0	0.50	211.40	1,076.0	-1.0	-1.4	0.17	-0.13	-11.04	-1.6	-0.7
1,262.0	0.70	208.90	1,262.0	-2.7	-2.4	0.11	0.11	-1.34	-3.5	-0.8
1,448.0	0.70	216.20	1,448.0	-4.6	-3.6	0.05	0.00	3.92	-5.9	-0.2
1,633.0	2.90	81.00	1,632.9	-4.8	0.3	1.86	1.19	-73.08	3.5	-5.3
1,820.0	6.40	64.80	1,819.3	0.4	14.4	1.98	1.87	-8.66	4.5	-3.9

EOG Resources

PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25 @ 3349.0usft
Site:	Calm Breeze 2Fed Com	MD Reference:	KB = 25 @ 3349.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 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)	
2,008.0	7.60	59.60	2,005.8	11.2	34.6	0.72	0.64	-2.77	6.0	0.5	
2,194.0	8.60	59.70	2,190.0	24.4	57.2	0.54	0.54	0.05	4.4	5.4	
2,382.0	8.50	61.00	2,375.9	38.2	81.5	0.12	-0.05	0.69	1.5	10.0	
2,570.0	8.70	62.10	2,561.8	51.6	106.3	0.14	0.11	0.59	-1.4	14.2	
2,758.0	9.30	69.70	2,747.5	63.5	133.1	0.71	0.32	4.04	-3.5	16.7	
2,945.0	9.70	71.70	2,931.9	73.7	162.2	0.28	0.21	1.07	-8.6	17.0	
3,133.0	10.80	75.20	3,116.9	83.2	194.3	0.67	0.59	1.86	-15.8	16.6	
3,320.0	9.50	78.00	3,301.0	90.9	226.3	0.74	-0.70	1.50	-23.0	15.1	
3,507.0	8.00	81.00	3,485.8	96.1	254.2	0.84	-0.80	1.60	-25.8	12.7	
3,694.0	8.00	77.30	3,671.0	101.0	279.8	0.28	0.00	-1.98	-27.5	7.5	
3,881.0	8.40	78.80	3,856.1	106.5	305.9	0.24	0.21	0.80	-29.0	5.1	
4,068.0	6.70	83.20	4,041.4	110.5	330.1	0.96	-0.91	2.35	-28.4	3.0	
4,254.0	5.40	86.10	4,226.4	115.3	348.9	1.19	-0.70	-9.19	-22.1	-6.5	
4,440.0	5.60	84.60	4,411.6	122.7	365.1	0.13	0.11	-0.81	-14.8	-4.5	
4,628.0	5.40	78.30	4,598.7	128.5	382.0	0.70	-0.11	7.29	-8.0	-1.9	
4,815.0	8.30	82.30	4,784.4	132.1	404.0	1.57	1.55	2.14	-5.6	-5.7	
5,002.0	7.60	73.50	4,969.6	137.4	429.3	0.75	-0.37	-4.71	-5.2	-9.6	
5,188.0	6.70	73.50	5,154.1	144.0	451.5	0.48	-0.48	0.00	-3.3	-10.7	
5,375.0	8.70	67.00	5,339.4	152.6	475.0	1.16	1.07	-3.48	-1.9	-10.5	
5,563.0	8.60	65.50	5,525.3	164.0	500.8	0.13	-0.05	-0.80	-4.7	-8.5	
5,750.0	7.60	63.10	5,710.4	175.4	524.6	0.56	-0.53	-1.28	-5.7	-5.8	
5,936.0	7.40	62.10	5,894.8	186.5	546.1	0.13	-0.11	-0.54	-5.1	-2.2	
6,123.0	6.40	60.70	6,080.5	197.3	565.9	0.54	-0.53	-0.75	-2.7	1.9	
6,312.0	7.40	58.00	6,268.1	208.9	585.4	0.56	0.53	-1.43	-0.6	7.0	
6,499.0	7.50	70.50	6,453.5	219.3	607.1	0.87	0.05	6.68	2.2	9.8	
6,684.0	9.00	73.40	6,636.6	227.5	632.3	0.84	0.81	1.57	1.1	9.2	
6,872.0	9.20	70.60	6,822.2	236.7	660.6	0.26	0.11	-1.49	-3.8	8.7	

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Calm Breeze 2Fed Com
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3349.0usft
MD Reference: KB = 25 @ 3349.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 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)
7,060.0	9.20	67.60	7,007.8	247.4	688.7	0.26	0.00	-1.60	-9.0	9.2
7,247.0	8.40	68.20	7,192.6	258.2	715.2	0.43	-0.43	0.32	-12.4	10.7
7,434.0	6.20	78.70	7,378.1	265.2	737.8	1.37	-1.18	5.61	-8.8	11.9
7,619.0	5.20	84.40	7,562.2	268.0	755.9	0.62	-0.54	3.08	-4.2	8.5
7,805.0	3.10	99.70	7,747.7	268.0	769.3	1.27	-1.13	8.23	-5.4	6.3
7,991.0	0.40	127.90	7,933.6	266.7	774.7	1.48	-1.45	15.16	-6.3	9.6
8,177.0	0.40	152.40	8,119.6	265.8	775.6	0.09	0.00	13.17	-3.0	11.6
8,364.0	0.60	71.50	8,306.6	265.5	776.8	0.36	0.11	-43.26	-13.0	-1.7
8,551.0	0.70	56.60	8,493.6	266.4	778.7	0.10	0.05	-7.97	-14.2	-5.3
8,738.0	1.30	34.30	8,680.5	268.8	780.8	0.38	0.32	-11.93	-14.3	-10.7
8,911.0	0.60	27.10	8,853.5	271.2	782.3	0.41	-0.40	-4.16	-15.7	-12.7
9,098.0	0.90	10.00	9,040.5	273.6	783.0	0.20	0.16	-9.14	-13.7	-17.0
9,284.0	1.60	66.50	9,226.5	276.0	785.7	0.72	0.38	30.38	-25.2	3.2
9,472.0	0.30	134.60	9,414.4	276.7	788.4	0.81	-0.69	36.22	-7.9	27.0
9,659.0	0.40	211.50	9,601.4	275.8	788.4	0.24	0.05	41.12	23.8	14.2
9,846.0	0.90	192.30	9,788.4	273.8	787.8	0.29	0.27	-10.27	15.7	21.1
10,032.0	1.50	184.00	9,974.4	270.0	787.3	0.34	0.32	-4.46	8.6	22.9
10,219.0	2.30	223.10	10,161.3	264.8	784.6	0.79	0.43	20.91	15.4	13.9
10,406.0	2.40	231.00	10,348.1	259.6	779.0	0.18	0.05	4.22	9.6	12.2
10,594.0	2.10	310.40	10,536.0	259.4	773.3	1.53	-0.16	42.23	9.5	-3.3
10,781.0	0.80	334.50	10,723.0	262.8	770.1	0.75	-0.70	12.89	2.9	-5.5
10,968.0	0.70	330.00	10,909.9	264.9	769.0	0.06	-0.05	-2.41	0.9	-5.4
11,156.0	1.10	244.60	11,097.9	265.1	766.8	0.67	0.21	-45.43	3.5	-0.7
11,343.0	2.80	285.70	11,284.8	265.6	760.7	1.12	0.91	21.98	-3.7	-1.7
11,529.0	3.60	274.80	11,470.5	267.3	750.6	0.54	0.43	-5.86	-13.6	-3.2
11,716.0	2.90	250.20	11,657.2	266.2	740.3	0.83	-0.37	-13.16	-21.1	-11.0
11,816.0	2.20	185.60	11,757.2	263.5	737.7	2.79	-0.70	-64.60	-2.1	-26.1

EOG Resources

PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Calm Breeze 2Fed Com
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 3349.0usft
 MD Reference: KB = 25 @ 3349.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14 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)
11,909.0	3.80	164.40	11,850.0	258.7	738.3	2.07	1.72	-22.80	2.7	-25.8
12,003.0	6.10	177.80	11,943.7	250.7	739.4	2.72	2.45	14.26	-11.3	-25.0
12,100.0	10.50	178.20	12,039.6	236.7	739.8	4.54	4.54	0.41	-14.1	-24.6
12,147.0	16.30	176.80	12,085.3	225.9	740.3	12.36	12.34	-2.98	-11.7	-24.4
12,193.0	22.70	177.80	12,128.7	210.5	741.0	13.93	13.91	2.17	-10.7	-23.5
12,240.0	32.60	178.50	12,170.3	188.7	741.7	21.07	21.06	1.49	-11.4	-22.9
12,286.0	42.20	180.50	12,206.8	160.8	741.9	21.03	20.87	4.35	-15.7	-22.6
12,333.0	47.40	179.10	12,240.1	127.7	742.1	11.26	11.06	-2.98	-20.4	-23.0
12,380.0	52.00	178.70	12,270.5	91.9	742.7	9.81	9.79	-0.85	-24.7	-22.7
12,427.0	57.20	178.70	12,297.7	53.6	743.6	11.06	11.06	0.00	-28.2	-22.1
12,474.0	62.60	178.80	12,321.3	13.0	744.5	11.49	11.49	0.21	-31.2	-21.4
12,508.5	65.46	178.13	12,336.4	-18.0	745.3	8.48	8.30	-1.93	-32.6	-21.0
HL Crossing, MD:12508.5', TVD:12336.4', N/S:-18.0', E/W:745.3', INC:65.46										
12,521.0	66.50	177.90	12,341.5	-29.4	745.7	8.48	8.30	-1.87	-32.9	-20.7
12,567.0	69.00	176.10	12,358.9	-71.9	748.0	6.53	5.43	-3.91	-32.3	-19.0
12,614.0	70.70	173.50	12,375.1	-115.9	752.0	6.33	3.62	-5.53	-28.5	-15.5
12,660.0	76.40	172.50	12,388.1	-159.6	757.3	12.57	12.39	-2.17	-23.4	-10.0
12,714.0	80.80	172.40	12,398.8	-212.1	764.3	8.15	8.15	-0.19	-16.2	-3.1
12,761.0	85.70	173.40	12,404.3	-258.4	770.1	10.64	10.43	2.13	-11.0	2.3
12,854.0	89.90	175.80	12,407.9	-350.9	778.8	5.20	4.52	2.58	-8.1	10.4
12,947.0	90.50	177.30	12,407.5	-443.7	784.4	1.74	0.65	1.61	-9.1	15.3
13,041.0	90.90	178.10	12,406.4	-537.6	788.2	0.95	0.43	0.85	-10.9	18.4
13,134.0	89.50	176.10	12,406.1	-630.5	792.9	2.63	-1.51	-2.15	-11.9	22.4
13,228.0	95.10	178.80	12,402.3	-724.3	797.1	6.61	5.96	2.87	-16.2	26.0
13,321.0	92.90	179.40	12,395.8	-817.1	798.5	2.45	-2.37	0.65	-23.4	26.7
13,415.0	88.60	178.80	12,394.6	-911.0	800.0	4.62	-4.57	-0.64	-25.3	27.5
13,509.0	89.30	179.60	12,396.3	-1,005.0	801.3	1.13	0.74	0.85	-24.3	28.1

EOG Resources

PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Calm Breeze 2Fed Com
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3349.0usft
MD Reference: KB = 25 @ 3349.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 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)
13,603.0	88.80	180.00	12,397.8	-1,099.0	801.6	0.68	-0.53	0.43	-23.4	27.7
13,696.0	91.50	180.40	12,397.6	-1,192.0	801.3	2.93	2.90	0.43	-24.3	26.7
13,790.0	90.10	182.60	12,396.3	-1,285.9	798.8	2.77	-1.49	2.34	-26.2	23.5
13,883.0	89.50	183.30	12,396.6	-1,378.8	794.1	0.99	-0.65	0.75	-26.6	18.1
13,977.0	87.40	183.40	12,399.2	-1,472.6	788.6	2.24	-2.23	0.11	-24.7	11.9
14,071.0	90.70	184.30	12,400.7	-1,566.4	782.3	3.64	3.51	0.96	-23.8	4.9
14,165.0	83.40	180.70	12,405.6	-1,660.1	778.2	8.66	-7.77	-3.83	-19.6	0.1
14,259.0	86.90	179.90	12,413.5	-1,753.7	777.7	3.82	3.72	-0.85	-12.3	-1.1
14,352.0	87.70	177.50	12,417.9	-1,846.6	779.8	2.72	0.86	-2.58	-8.6	0.4
14,445.0	89.10	177.30	12,420.5	-1,939.4	784.0	1.52	1.51	-0.22	-6.6	3.9
14,538.0	91.50	177.30	12,420.0	-2,032.3	788.4	2.58	2.58	0.00	-7.6	7.6
14,631.0	87.30	176.10	12,421.0	-2,125.1	793.7	4.70	-4.52	-1.29	-7.3	12.2
14,725.0	92.30	177.90	12,421.3	-2,219.0	798.6	5.65	5.32	1.91	-7.4	16.5
14,817.0	88.70	178.60	12,420.5	-2,310.9	801.5	3.99	-3.91	0.76	-8.8	18.6
14,940.0	87.60	181.60	12,424.5	-2,433.8	801.2	2.60	-0.89	2.44	-5.5	17.5
15,033.0	90.70	179.90	12,425.8	-2,526.8	800.0	3.80	3.33	-1.83	-4.7	15.6
15,127.0	91.60	178.70	12,424.0	-2,620.8	801.2	1.60	0.96	-1.28	-7.2	16.1
15,220.0	93.00	178.90	12,420.2	-2,713.7	803.1	1.52	1.51	0.22	-11.5	17.3
15,314.0	92.70	178.50	12,415.6	-2,807.5	805.2	0.53	-0.32	-0.43	-16.7	18.8
15,407.0	92.60	178.20	12,411.3	-2,900.4	807.9	0.34	-0.11	-0.32	-21.5	20.8
15,500.0	91.60	176.70	12,407.8	-2,993.2	812.1	1.94	-1.08	-1.61	-25.5	24.2
15,594.0	89.00	178.00	12,407.4	-3,087.1	816.4	3.09	-2.77	1.38	-26.6	27.9
15,688.0	89.40	180.50	12,408.7	-3,181.1	817.6	2.69	0.43	2.66	-25.8	28.4
15,782.0	87.70	178.70	12,411.0	-3,275.1	818.3	2.63	-1.81	-1.91	-24.0	28.4
15,876.0	90.90	180.10	12,412.2	-3,369.0	819.3	3.72	3.40	1.49	-23.4	28.7
15,969.0	91.50	179.90	12,410.2	-3,462.0	819.3	0.68	0.65	-0.22	-25.9	28.0
16,063.0	89.80	180.20	12,409.2	-3,556.0	819.2	1.84	-1.81	0.32	-27.6	27.2

EOG Resources

PVA Report

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 Site: Calm Breeze 2Fed Com
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 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 3349.0usft
 MD Reference: KB = 25 @ 3349.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14 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)
16,157.0	89.30	179.70	12,409.9	-3,650.0	819.3	0.75	-0.53	-0.53	-27.4	26.6
16,250.0	91.10	183.50	12,409.6	-3,742.9	816.7	4.52	1.94	4.09	-28.3	23.3
16,343.0	90.50	181.50	12,408.3	-3,835.8	812.6	2.25	-0.65	-2.15	-30.1	18.6
16,436.0	87.50	181.20	12,409.9	-3,928.8	810.4	3.24	-3.23	-0.32	-29.0	15.7
16,530.0	86.70	181.20	12,414.7	-4,022.7	808.5	0.85	-0.85	0.00	-24.8	13.1
16,623.0	87.10	179.70	12,419.7	-4,115.5	807.7	1.67	0.43	-1.61	-20.4	11.7
16,717.0	89.20	180.20	12,422.7	-4,209.5	807.8	2.30	2.23	0.53	-17.9	11.0
16,810.0	91.40	179.70	12,422.2	-4,302.4	807.9	2.43	2.37	-0.54	-18.9	10.4
16,904.0	91.60	179.30	12,419.8	-4,396.4	808.7	0.48	0.21	-0.43	-22.0	10.6
16,998.0	90.00	180.30	12,418.5	-4,490.4	809.0	2.01	-1.70	1.06	-23.8	10.2
17,090.0	88.20	179.10	12,419.9	-4,582.4	809.5	2.35	-1.96	-1.30	-22.9	10.0
17,184.0	88.30	178.50	12,422.8	-4,676.3	811.5	0.65	0.11	-0.64	-20.6	11.3
17,277.0	90.90	177.50	12,423.4	-4,769.2	814.7	3.00	2.80	-1.08	-20.5	13.9
17,359.0	88.80	176.70	12,423.7	-4,851.1	818.9	2.74	-2.56	-0.98	-20.8	17.4
17,452.0	89.40	180.20	12,425.1	-4,944.1	821.4	3.82	0.65	3.76	-19.9	19.2
17,546.0	90.70	181.60	12,425.0	-5,038.1	819.9	2.03	1.38	1.49	-20.5	17.1
17,639.0	92.00	181.20	12,422.8	-5,131.0	817.7	1.46	1.40	-0.43	-23.3	14.1
17,733.0	90.20	181.50	12,421.0	-5,225.0	815.4	1.94	-1.91	0.32	-25.7	11.2
17,827.0	89.90	181.70	12,421.0	-5,318.9	812.8	0.38	-0.32	0.21	-26.3	7.9
17,921.0	90.10	182.00	12,421.0	-5,412.9	809.8	0.38	0.21	0.32	-26.9	4.2
18,014.0	91.40	182.20	12,419.7	-5,505.8	806.4	1.41	1.40	0.22	-28.6	0.1
18,107.0	87.40	180.60	12,420.7	-5,598.7	804.1	4.63	-4.30	-1.72	-28.2	-2.9
18,201.0	86.10	179.70	12,426.0	-5,692.6	803.9	1.68	-1.38	-0.96	-23.4	-3.8
18,295.0	85.40	178.90	12,433.0	-5,786.3	805.0	1.13	-0.74	-0.85	-17.0	-3.4
18,388.0	90.80	178.70	12,436.1	-5,879.2	806.9	5.81	5.81	-0.22	-14.5	-2.1
18,482.0	89.50	179.10	12,435.8	-5,973.2	808.8	1.45	-1.38	0.43	-15.4	-1.0
18,576.0	87.80	178.20	12,438.1	-6,067.1	811.0	2.05	-1.81	-0.96	-13.9	0.6

EOG Resources

PVA Report

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Local Co-ordinate Reference: Well #701H
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MD Reference: KB = 25 @ 3349.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 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)
18,669.0	86.90	176.80	12,442.4	-6,159.9	815.0	1.79	-0.97	-1.51	-10.4	3.9
18,763.0	87.30	176.30	12,447.1	-6,253.7	820.7	0.68	0.43	-0.53	-6.5	8.9
18,857.0	88.60	177.10	12,450.5	-6,347.4	826.1	1.62	1.38	0.85	-3.9	13.6
18,951.0	89.40	177.30	12,452.1	-6,441.3	830.7	0.88	0.85	0.21	-3.0	17.5
19,044.0	89.10	178.20	12,453.3	-6,534.2	834.3	1.02	-0.32	0.97	-2.6	20.5
19,137.0	90.10	180.00	12,454.0	-6,627.2	835.8	2.21	1.08	1.94	-2.7	21.3
19,231.0	90.10	178.20	12,453.8	-6,721.2	837.3	1.91	0.00	-1.91	-3.7	22.0
19,324.0	89.70	178.10	12,454.0	-6,814.1	840.3	0.44	-0.43	-0.11	-4.3	24.4
19,417.0	89.50	179.30	12,454.6	-6,907.1	842.4	1.31	-0.22	1.29	-4.4	25.8
19,510.0	89.60	178.30	12,455.4	-7,000.1	844.3	1.08	0.11	-1.08	-4.5	27.1
19,602.0	89.60	180.90	12,456.0	-7,092.1	845.0	2.83	0.00	2.83	-4.6	27.0
19,696.0	90.20	180.70	12,456.2	-7,186.1	843.6	0.67	0.64	-0.21	-5.2	25.0
19,784.9	89.63	179.74	12,456.3	-7,275.0	843.3	1.25	-0.65	-1.08	-5.9	24.0
HL Crossing, MD:19784.9', TVD:12456.3', N/S:-7275.0', E/W:843.3', INC:89.63										
19,789.0	89.60	179.70	12,456.3	-7,279.1	843.3	1.25	-0.65	-1.08	-5.9	24.0
19,812.0	89.60	179.70	12,456.5	-7,302.1	843.4	0.00	0.00	0.00	-8.7	35.7
Final MWD Survey (MD= 19812.0')										
19,871.0	89.60	179.70	12,456.9	-7,361.1	843.7	0.00	0.00	0.00	-21.2	87.1
Final Projection to Bit (MD=19871.0')										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,508.5	12,336.4	-18.0	745.3	HL Crossing, MD:12508.5', TVD:12336.4', N/S:-18.0', E/W:745.3', INC:65.46
19,784.9	12,456.3	-7,275.0	843.3	HL Crossing, MD:19784.9', TVD:12456.3', N/S:-7275.0', E/W:843.3', INC:89.63
19,812.0	12,456.5	-7,302.1	843.4	Final MWD Survey (MD= 19812.0')
19,871.0	12,456.9	-7,361.1	843.7	Final Projection to Bit (MD=19871.0')

EOG Resources

PVA Report

Company: EOG Resources - Midland
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Site: Calm Breeze 2Fed Com
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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25 @ 3349.0usft
MD Reference: KB = 25 @ 3349.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14 Single User Db

Checked By: _____ Approved By: _____ Date: _____