



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

Lea County, NM (NAD 27 NME)

Endurance 36 State Com

#703H

H&P 659

Plan #2



Azimuths to Grid North
True North: -0.43°
Magnetic North: 6.70°

Magnetic Field
Strength: 48017.5nT
Dip Angle: 59.89°
Date: 6/18/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.70°
To convert a Magnetic Direction to a True Direction, Add 7.13° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: #703H

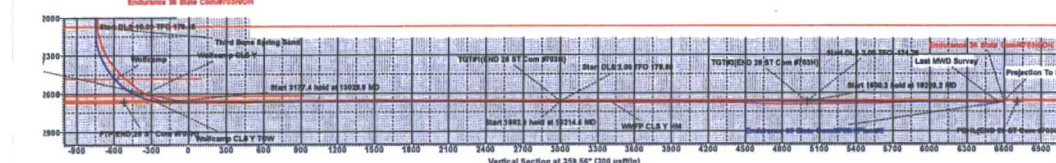
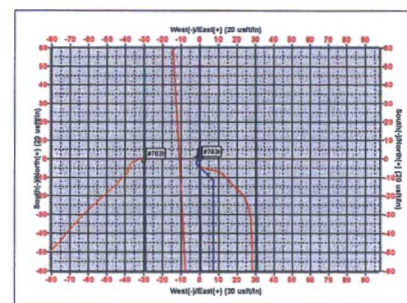
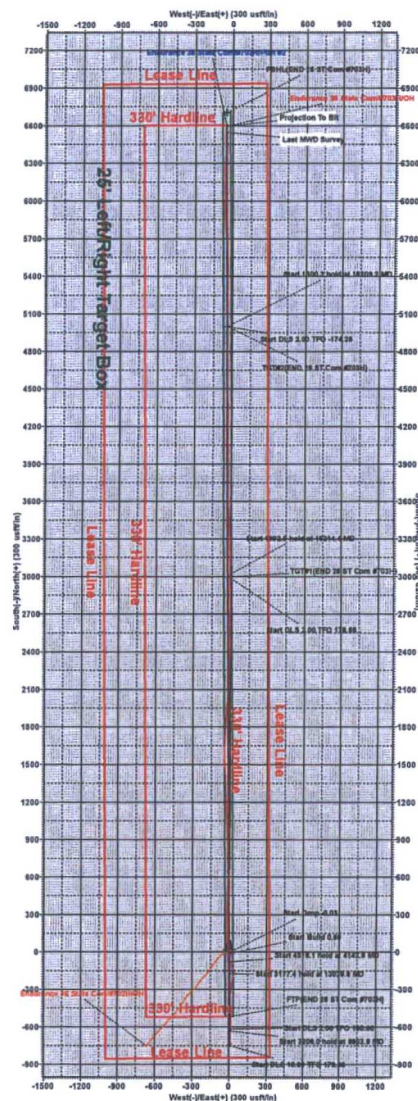
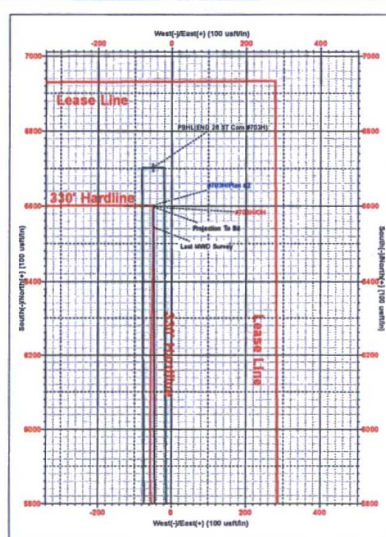
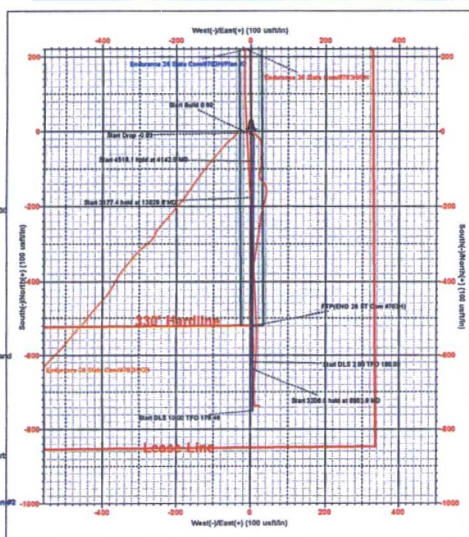
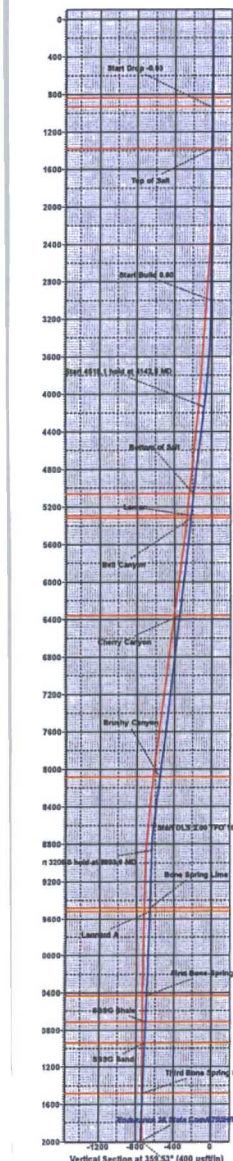
+N/-S	+E/-W	North	East	Longitude	Slot
0.0	0.0	365580.00	752702.00	32° 0' 8.906 N 103° 31' 5.311 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	946.0	0.60	133.97	946.0	-4.2	-0.3	0.00	0.00	-4.2	
2	3000.1	0.00	0.00	3000.0	-11.6	7.4	0.03	180.00	-11.7	
3	4142.9	6.86	180.10	4140.1	-79.9	7.3	0.60	180.10	-80.0	
4	8661.0	6.86	180.10	8625.9	-619.4	6.4	0.00	0.00	-619.4	
5	8903.9	2.00	180.10	8868.0	-638.1	6.3	2.00	180.00	-638.1	
6	12109.9	2.00	180.10	12072.0	-750.0	6.1	0.00	0.00	-750.0	
7	13029.8	90.00	359.56	12665.0	-177.4	1.5	10.00	179.46	-177.4	
8	16207.3	90.00	359.56	12665.0	2999.9	-22.8	0.00	0.00	3000.0	TGT#1(End 26 ST Com #703H)
9	16214.4	89.86	359.56	12665.0	3007.0	-22.9	2.00	178.88	3007.1	TGT#2(End 26 ST Com #703H)
10	18207.3	89.86	359.56	12670.0	4999.9	-38.0	0.00	0.00	5000.0	
11	18209.5	89.82	359.56	12670.0	5001.7	-38.1	2.00	-174.26	5001.9	
12	19609.5	89.82	359.56	12675.0	6602.0	-50.3	0.00	0.00	6602.2	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	North	East	Shape
FTPREND 26 ST Com #703H	12665.0	-520.9	4.0	365580.00	752706.00	Point
TGT#1(End 26 ST Com #703H)	12665.0	2999.9	-22.8	365579.90	752679.19	Point
TGT#2(End 26 ST Com #703H)	12670.0	4999.9	-38.0	370579.90	752683.98	Point
PBHL(End 26 ST Com #703H)	12675.0	6702.0	-61.0	372282.00	752651.00	Rectangle (Sides: L&O W&O)



Lea County, NM (NAD 27 NME)
Endurance 36 State Com #703H
H&P 659
Plan #2

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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Endurance 36 State Com

#703H

OH

Design: OH

PVA

27 March, 2017



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Endurance 36 State Com
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3359.0usft (H&P 659)
MD Reference: KB = 25 @ 3359.0usft (H&P 659)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project: Lea County, NM (NAD 27 NME)
Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001
System Datum: Mean Sea Level

Site: Endurance 36 State Com
Site Position: Northing: 365,036.00 usft Latitude: 32° 0' 3.760 N
From: Map Easting: 749,506.00 usft Longitude: 103° 31' 42.470 W
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.43 °

Well: #703H
Well Position: +N/-S 0.0 usft Northing: 365,580.00 usft Latitude: 32° 0' 8.906 N
+E/-W 0.0 usft Easting: 752,702.00 usft Longitude: 103° 31' 5.311 W
Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,334.0 usft

Wellbore: OH
Magnetics: Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
IGRF2015 6/18/2015 7.13 59.89 48,018

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 0.0 359.56



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey Program Date 3/27/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
84.0	946.0	Invictvs MWD #1 (OH)	MWD	MWD - Standard
1,043.0	13,102.0	Intrepid MWD #1 (OH)	MWD	MWD - Standard
13,161.0	14,566.0	SLB MWD #1 (OH)	MWD	MWD - Standard
14,660.0	19,758.0	Intrepid MWD #2 (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
84.0	0.20	282.97	84.0	0.0	-0.1	0.24	0.24	0.00	0.0	0.0
293.0	0.50	226.97	293.0	-0.5	-1.2	0.20	0.14	-26.79	0.0	0.0
485.0	0.20	193.97	485.0	-1.4	-1.9	0.18	-0.16	-17.19	0.0	0.0
675.0	0.50	171.97	675.0	-2.5	-1.8	0.17	0.16	-11.58	0.0	0.0
865.0	0.50	114.97	865.0	-3.7	-1.0	0.25	0.00	-30.00	0.0	0.0
946.0	0.60	133.97	946.0	-4.2	-0.3	0.26	0.12	23.46	0.0	0.0
1,043.0	0.80	94.80	1,043.0	-4.6	0.7	0.52	0.21	-40.38	-0.3	0.3
1,136.0	0.70	112.30	1,136.0	-4.8	1.9	0.27	-0.11	18.82	-0.5	0.9
1,229.0	0.90	108.80	1,229.0	-5.3	3.1	0.22	0.22	-3.76	-1.1	1.2
1,322.0	0.80	114.50	1,321.9	-5.8	4.4	0.14	-0.11	6.13	-1.6	1.7
1,415.0	1.00	100.70	1,414.9	-6.2	5.8	0.32	0.22	-14.84	-2.7	1.5
1,508.0	1.00	96.00	1,507.9	-6.5	7.4	0.09	0.00	-5.05	-3.9	1.7
1,601.0	1.10	108.20	1,600.9	-6.8	9.0	0.26	0.11	13.12	-4.5	2.9
1,695.0	1.10	115.10	1,694.9	-7.5	10.7	0.14	0.00	7.34	-5.3	3.8
1,789.0	1.10	123.90	1,788.9	-8.4	12.3	0.18	0.00	9.36	-5.9	4.8
1,882.0	1.30	138.00	1,881.8	-9.6	13.7	0.38	0.22	15.16	-5.9	6.2
1,975.0	1.50	140.90	1,974.8	-11.4	15.2	0.23	0.22	3.12	-7.4	6.5
2,069.0	1.50	135.30	2,068.8	-13.2	16.8	0.16	0.00	-5.96	-10.0	5.6
2,162.0	1.80	135.50	2,161.8	-15.1	18.7	0.32	0.32	0.22	-12.2	5.7



EOG Resources, Inc.

PVA

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 Site: Endurance 36 State Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3359.0usft (H&P 659)
 MD Reference: KB = 25 @ 3359.0usft (H&P 659)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 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)
2,256.0	1.90	129.20	2,255.7	-17.2	21.0	0.24	0.11	-6.70	-15.4	4.2
2,349.0	2.30	144.50	2,348.6	-19.6	23.2	0.74	0.43	16.45	-16.8	8.4
2,443.0	2.90	155.90	2,442.5	-23.4	25.3	0.84	0.64	12.13	-18.7	11.8
2,537.0	2.90	165.20	2,536.4	-27.8	26.9	0.50	0.00	9.89	-21.1	15.0
2,630.0	3.30	179.00	2,629.3	-32.8	27.5	0.91	0.43	14.84	-21.7	20.0
2,725.0	3.60	176.50	2,724.1	-38.5	27.8	0.35	0.32	-2.63	-28.2	18.8
2,819.0	3.90	177.60	2,817.9	-44.6	28.1	0.33	0.32	1.17	-33.9	19.3
2,913.0	4.10	181.10	2,911.7	-51.2	28.1	0.34	0.21	3.72	-39.1	21.5
3,007.0	4.10	177.60	3,005.4	-57.9	28.2	0.27	0.00	-3.72	-47.1	18.9
3,100.0	4.30	187.10	3,098.2	-64.7	27.9	0.78	0.22	10.22	-49.6	26.9
3,193.0	4.30	180.00	3,190.9	-71.6	27.5	0.57	0.00	-7.63	-58.1	20.1
3,286.0	4.10	169.90	3,283.7	-78.4	28.1	0.82	-0.22	-10.86	-65.2	9.4
3,379.0	4.20	179.30	3,376.4	-85.1	28.7	0.74	0.11	10.11	-66.2	20.5
3,474.0	4.40	187.50	3,471.2	-92.2	28.3	0.68	0.21	8.63	-65.5	29.7
3,567.0	4.40	196.50	3,563.9	-99.1	26.8	0.74	0.00	9.68	-62.3	38.7
3,662.0	4.60	194.70	3,658.6	-106.3	24.8	0.26	0.21	-1.89	-65.0	35.0
3,756.0	4.60	194.50	3,752.3	-113.6	22.9	0.02	0.00	-0.21	-65.9	33.0
3,849.0	4.00	175.10	3,845.1	-120.4	22.2	1.68	-0.65	-20.86	-72.1	8.8
3,943.0	4.70	147.90	3,938.8	-127.0	24.6	2.29	0.74	-28.94	-67.4	-21.8
4,037.0	5.40	139.20	4,032.4	-133.6	29.5	1.10	0.74	-9.26	-64.2	-25.8
4,131.0	5.10	132.60	4,126.0	-139.7	35.5	0.72	-0.32	-7.02	-62.2	-25.6
4,225.0	6.30	165.50	4,219.6	-147.6	39.8	3.64	1.28	35.00	-63.9	17.2
4,319.0	6.60	175.70	4,313.0	-157.9	41.5	1.26	0.32	10.85	-59.2	29.9
4,413.0	6.70	188.60	4,406.4	-168.8	41.1	1.59	0.11	13.72	-50.7	41.9
4,507.0	6.00	194.40	4,499.8	-178.9	39.1	1.01	-0.74	6.17	-45.8	44.5
4,600.0	5.50	200.30	4,592.3	-187.8	36.3	0.83	-0.54	6.34	-39.8	45.6
4,694.0	5.40	192.90	4,685.9	-196.4	33.8	0.75	-0.11	-7.87	-43.3	37.1



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PVA

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Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB = 25 @ 3359.0usft (H&P 659)
MD Reference: KB = 25 @ 3359.0usft (H&P 659)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 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)
4,787.0	6.10	185.80	4,778.4	-205.5	32.3	1.07	0.75	-7.63	-45.7	29.9
4,881.0	6.80	195.60	4,871.8	-215.9	30.3	1.39	0.74	10.43	-39.7	35.0
4,975.0	7.50	190.80	4,965.1	-227.3	27.6	0.98	0.74	-5.11	-43.1	29.0
5,068.0	7.50	185.80	5,057.3	-239.3	25.9	0.70	0.00	-5.38	-46.5	23.6
5,162.0	6.70	186.90	5,150.6	-250.8	24.6	0.86	-0.85	1.17	-46.6	23.2
5,256.0	5.80	187.50	5,244.0	-261.0	23.3	0.96	-0.96	0.64	-45.4	22.3
5,350.0	6.40	189.90	5,337.5	-270.8	21.8	0.69	0.64	2.55	-43.4	22.5
5,443.0	6.80	190.30	5,429.9	-281.4	19.9	0.43	0.43	0.43	-43.0	20.9
5,539.0	7.30	188.60	5,525.2	-293.0	18.0	0.56	0.52	-1.77	-44.0	17.7
5,633.0	7.70	189.20	5,618.4	-305.1	16.1	0.43	0.43	0.64	-45.0	16.5
5,727.0	7.70	189.10	5,711.5	-317.5	14.1	0.01	0.00	-0.11	-46.6	14.6
5,820.0	7.90	189.10	5,803.7	-330.0	12.1	0.22	0.22	0.00	-48.2	12.9
5,915.0	7.70	189.30	5,897.8	-342.7	10.0	0.21	-0.21	0.21	-49.9	11.3
6,009.0	8.10	189.20	5,990.9	-355.5	8.0	0.43	0.43	-0.11	-51.8	9.4
6,103.0	8.40	189.10	6,083.9	-368.8	5.8	0.32	0.32	-0.11	-54.2	7.5
6,197.0	8.10	186.90	6,176.9	-382.1	3.9	0.46	-0.32	-2.34	-56.8	3.9
6,290.0	8.10	185.00	6,269.0	-395.2	2.6	0.29	0.00	-2.04	-59.0	0.8
6,382.0	6.90	180.80	6,360.2	-407.2	1.9	1.43	-1.30	-4.57	-59.9	-4.1
6,476.0	7.00	181.20	6,453.5	-418.5	1.7	0.12	0.11	0.43	-60.1	-3.8
6,569.0	6.90	181.60	6,545.8	-429.8	1.5	0.12	-0.11	0.43	-60.2	-3.7
6,662.0	7.00	180.20	6,638.2	-441.0	1.3	0.21	0.11	-1.51	-60.3	-5.3
6,756.0	7.20	181.00	6,731.4	-452.6	1.2	0.24	0.21	0.85	-60.8	-4.5
6,849.0	7.60	183.10	6,823.7	-464.6	0.7	0.52	0.43	2.26	-61.8	-2.7
6,942.0	6.50	186.90	6,916.0	-476.0	-0.2	1.28	-1.18	4.09	-62.2	0.5
7,037.0	7.10	174.80	7,010.3	-487.2	-0.3	1.63	0.63	-12.74	-60.8	-12.6
7,130.0	7.40	172.80	7,102.6	-498.8	0.9	0.42	0.32	-2.15	-61.0	-13.4
7,224.0	7.50	173.40	7,195.8	-510.9	2.4	0.13	0.11	0.64	-62.2	-11.4



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Local Co-ordinate Reference: Well #703H
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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)
7,317.0	7.60	173.50	7,288.0	-523.1	3.8	0.11	0.11	0.11	-63.4	-10.0
7,410.0	8.00	174.00	7,380.1	-535.6	5.2	0.44	0.43	0.54	-65.1	-8.3
7,503.0	7.90	174.20	7,472.2	-548.4	6.5	0.11	-0.11	0.22	-67.0	-6.9
7,596.0	7.00	177.60	7,564.4	-560.4	7.4	1.08	-0.97	3.66	-68.2	-2.1
7,690.0	7.30	180.30	7,657.7	-572.1	7.6	0.48	0.32	2.87	-68.7	1.4
7,783.0	7.30	181.40	7,749.9	-583.9	7.4	0.15	0.00	1.18	-69.4	2.5
7,876.0	7.30	182.40	7,842.2	-595.8	7.0	0.14	0.00	1.08	-70.1	3.4
7,970.0	7.40	185.00	7,935.4	-607.8	6.2	0.37	0.11	2.77	-70.7	5.9
8,064.0	5.80	179.30	8,028.8	-618.5	5.8	1.84	-1.70	-6.06	-70.5	-1.6
8,158.0	5.70	179.00	8,122.3	-627.9	5.9	0.11	-0.11	-0.32	-68.6	-1.8
8,252.0	5.20	178.10	8,215.9	-636.9	6.1	0.54	-0.53	-0.96	-66.3	-2.5
8,346.0	5.30	178.30	8,309.5	-645.5	6.4	0.11	0.11	0.21	-63.7	-1.9
8,439.0	5.30	176.30	8,402.1	-654.1	6.8	0.20	0.00	-2.15	-61.1	-3.5
8,532.0	5.30	176.40	8,494.7	-662.6	7.3	0.01	0.00	0.11	-58.6	-2.7
8,627.0	5.30	175.40	8,589.3	-671.4	8.0	0.10	0.00	-1.05	-56.0	-2.9
8,721.0	5.20	175.70	8,682.9	-680.0	8.6	0.11	-0.11	0.32	-54.1	-1.7
8,814.0	5.10	178.50	8,775.5	-688.3	9.1	0.29	-0.11	3.01	-54.8	1.3
8,907.0	3.80	175.20	8,868.2	-695.5	9.4	1.42	-1.40	-3.55	-57.4	-1.7
9,001.0	2.00	175.90	8,962.1	-700.2	9.8	1.92	-1.91	0.74	-58.9	-0.7
9,095.0	1.70	181.20	9,056.1	-703.3	9.9	0.37	-0.32	5.64	-58.5	4.8
9,188.0	1.80	185.10	9,149.0	-706.1	9.7	0.17	0.11	4.19	-57.6	8.6
9,282.0	1.80	185.10	9,243.0	-709.0	9.5	0.00	0.00	0.00	-57.3	8.3
9,374.0	1.80	197.90	9,334.9	-711.8	8.9	0.44	0.00	13.91	-53.8	20.1
9,467.0	2.10	175.30	9,427.9	-714.9	8.6	0.88	0.32	-24.30	-57.2	-2.4
9,561.0	2.10	170.20	9,521.8	-718.4	9.0	0.20	0.00	-5.43	-57.0	-7.1
9,656.0	2.00	168.20	9,616.7	-721.7	9.7	0.13	-0.11	-2.11	-56.9	-8.4
9,750.0	1.30	163.40	9,710.7	-724.3	10.3	0.76	-0.74	-5.11	-55.5	-12.3



EOG Resources, Inc.

PVA

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Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25 @ 3359.0usft (H&P 659)
MD Reference: KB = 25 @ 3359.0usft (H&P 659)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 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)
9,843.0	1.00	167.10	9,803.7	-726.1	10.8	0.33	-0.32	3.98	-54.9	-7.9
9,937.0	0.90	192.40	9,897.7	-727.6	10.8	0.45	-0.11	26.91	-51.3	15.9
10,031.0	1.00	207.70	9,991.7	-729.1	10.3	0.29	0.11	16.28	-43.9	27.6
10,125.0	1.10	244.10	10,085.6	-730.2	9.1	0.71	0.11	38.72	-19.1	45.8
10,218.0	0.90	269.30	10,178.6	-730.6	7.5	0.51	-0.22	27.10	0.7	46.7
10,309.0	1.20	159.50	10,269.6	-731.5	7.2	1.90	0.33	-120.66	-41.9	-14.7
10,402.0	1.20	135.60	10,362.6	-733.1	8.2	0.53	0.00	-25.70	-31.9	-28.5
10,496.0	1.00	137.60	10,456.6	-734.4	9.4	0.22	-0.21	2.13	-32.3	-25.1
10,589.0	1.10	127.80	10,549.6	-735.6	10.7	0.22	0.11	-10.54	-27.3	-27.8
10,683.0	1.00	131.90	10,643.6	-736.7	12.0	0.13	-0.11	4.36	-28.7	-23.3
10,777.0	0.70	83.00	10,737.5	-737.1	13.2	0.80	-0.32	-52.02	-2.8	-34.3
10,871.0	1.00	53.50	10,831.5	-736.6	14.4	0.55	0.32	-31.38	11.2	-28.9
10,965.0	1.20	53.60	10,925.5	-735.5	15.9	0.21	0.21	0.11	7.4	-26.3
11,058.0	1.30	77.90	11,018.5	-734.7	17.7	0.58	0.11	26.13	-6.7	-23.4
11,152.0	1.20	87.90	11,112.5	-734.5	19.7	0.25	-0.11	10.64	-12.9	-18.4
11,246.0	0.70	110.80	11,206.5	-734.6	21.2	0.66	-0.53	24.36	-19.3	-8.5
11,340.0	0.90	138.60	11,300.5	-735.4	22.2	0.46	0.21	29.57	-19.9	3.9
11,432.0	0.80	167.50	11,392.4	-736.6	22.9	0.47	-0.11	31.41	-13.6	14.1
11,525.0	0.60	155.60	11,485.4	-737.6	23.2	0.26	-0.22	-12.80	-14.4	12.2
11,620.0	0.90	313.10	11,580.4	-737.6	22.9	1.55	0.32	165.79	15.4	-8.0
11,713.0	1.50	282.70	11,673.4	-736.8	21.1	0.92	0.65	-32.69	14.8	-2.6
11,807.0	1.70	287.20	11,767.4	-736.1	18.6	0.25	0.21	4.79	11.0	-6.8
11,901.0	1.90	276.80	11,861.3	-735.5	15.7	0.41	0.21	-11.06	8.7	-8.2
11,947.0	2.00	272.60	11,907.3	-735.4	14.2	0.38	0.22	-9.13	7.6	-9.2
12,023.0	1.90	276.60	11,983.3	-735.2	11.6	0.22	-0.13	5.26	4.1	-12.2
12,117.0	2.10	300.20	12,077.2	-734.2	8.6	0.89	0.21	25.11	-5.9	-15.1
12,164.0	9.20	352.20	12,124.0	-730.0	7.3	17.19	15.11	110.64	-19.1	-3.8



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PVA

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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)
12,210.0	17.20	0.20	12,168.7	-719.5	6.8	17.80	17.39	17.39	-25.4	-0.7
12,257.0	21.40	2.10	12,213.1	-704.0	7.2	9.03	8.94	4.04	-32.6	0.0
12,303.0	24.80	3.40	12,255.4	-686.0	8.0	7.47	7.39	2.83	-38.8	0.0
12,350.0	29.10	4.90	12,297.3	-664.7	9.6	9.26	9.15	3.19	-44.3	-0.4
12,396.0	33.70	5.50	12,336.5	-640.9	11.8	10.02	10.00	1.30	-49.3	-2.1
12,443.0	38.20	3.70	12,374.6	-613.4	14.0	9.83	9.57	-3.83	-53.8	-5.8
12,487.0	42.00	1.80	12,408.2	-585.1	15.3	9.07	8.64	-4.32	-57.2	-8.8
12,536.0	45.40	359.80	12,443.6	-551.2	15.8	7.49	6.94	-4.08	-59.7	-11.1
12,583.0	47.80	358.40	12,475.9	-517.1	15.2	5.55	5.11	-2.98	-60.1	-11.8
12,630.0	49.60	357.40	12,506.9	-481.8	13.9	4.15	3.83	-2.13	-58.0	-11.3
12,676.0	50.90	357.00	12,536.4	-446.5	12.2	2.90	2.83	-0.87	-53.2	-9.9
12,723.0	54.20	356.70	12,564.9	-409.2	10.2	7.04	7.02	-0.64	-46.1	-7.9
12,770.0	59.00	357.30	12,590.8	-370.1	8.1	10.27	10.21	1.28	-38.1	-5.7
12,817.0	62.10	356.60	12,613.9	-329.2	5.9	6.72	6.60	-1.49	-29.4	-3.7
12,864.0	68.20	357.70	12,633.6	-286.6	3.8	13.15	12.98	2.34	-20.4	-1.6
12,911.0	75.30	357.70	12,648.3	-242.1	2.0	15.11	15.11	0.00	-12.9	0.0
12,957.0	79.80	356.50	12,658.3	-197.2	-0.3	10.11	9.78	-2.61	-6.3	2.0
13,004.0	84.30	356.50	12,664.8	-150.8	-3.1	9.57	9.57	0.00	-0.2	4.4
13,051.0	88.50	357.20	12,667.7	-103.9	-5.7	9.06	8.94	1.49	2.8	6.7
13,102.0	90.50	357.60	12,668.2	-53.0	-8.0	4.00	3.92	0.78	3.2	8.6
13,161.0	92.13	356.39	12,666.8	5.9	-11.1	3.44	2.76	-2.05	1.9	11.2
13,255.0	89.66	357.72	12,665.3	99.8	-15.9	2.98	-2.63	1.41	0.4	15.3
13,349.0	89.00	1.23	12,666.4	193.7	-16.8	3.80	-0.70	3.73	1.5	15.5
13,443.0	88.62	0.86	12,668.4	287.7	-15.1	0.56	-0.40	-0.39	3.4	13.0
13,536.0	89.31	0.87	12,670.1	380.7	-13.6	0.74	0.74	0.01	5.1	10.9
13,630.0	89.83	1.97	12,670.8	474.6	-11.3	1.29	0.55	1.17	5.8	7.9
13,724.0	89.90	0.98	12,671.0	568.6	-8.9	1.06	0.07	-1.05	6.0	4.7



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PVA

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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)
13,818.0	90.52	358.47	12,670.6	662.6	-9.3	2.75	0.66	-2.67	5.7	4.5
13,911.0	90.83	358.40	12,669.6	755.6	-11.9	0.34	0.33	-0.08	4.6	6.3
14,004.0	91.34	358.27	12,667.8	848.5	-14.6	0.57	0.55	-0.14	2.8	8.3
14,097.0	91.34	358.45	12,665.6	941.4	-17.3	0.19	0.00	0.19	0.7	10.2
14,191.0	90.38	357.80	12,664.2	1,035.4	-20.3	1.23	-1.02	-0.69	-0.8	12.6
14,285.0	91.48	357.64	12,662.7	1,129.3	-24.1	1.18	1.17	-0.17	-2.3	15.6
14,378.0	91.76	357.60	12,660.1	1,222.2	-27.9	0.30	0.30	-0.04	-4.9	18.7
14,473.0	91.65	357.40	12,657.2	1,317.0	-32.1	0.24	-0.12	-0.21	-7.7	22.2
14,566.0	91.51	357.22	12,654.7	1,409.9	-36.4	0.25	-0.15	-0.19	-10.3	25.8
14,660.0	90.45	356.94	12,653.1	1,503.8	-41.2	1.17	-1.13	-0.30	-11.9	29.9
14,689.0	91.00	357.70	12,652.7	1,532.7	-42.6	3.23	1.90	2.62	-12.3	31.0
14,747.0	88.20	359.20	12,653.1	1,590.7	-44.1	5.48	-4.83	2.59	-11.9	32.1
14,812.0	90.40	3.50	12,653.9	1,655.7	-42.6	7.43	3.38	6.62	-11.1	30.1
14,840.0	90.40	3.60	12,653.7	1,683.6	-40.9	0.36	0.00	0.36	-11.3	28.1
14,933.0	86.50	2.40	12,656.2	1,776.4	-36.0	4.39	-4.19	-1.29	-8.7	22.6
14,959.0	88.90	3.30	12,657.2	1,802.4	-34.7	9.86	9.23	3.46	-7.7	21.1
15,027.0	89.80	3.80	12,658.0	1,870.2	-30.5	1.51	1.32	0.74	-7.0	16.4
15,120.0	90.40	4.80	12,657.9	1,963.0	-23.5	1.25	0.65	1.08	-7.1	8.7
15,214.0	86.50	3.90	12,660.4	2,056.6	-16.4	4.26	-4.15	-0.96	-4.6	0.8
15,308.0	85.10	3.10	12,667.3	2,150.2	-10.7	1.71	-1.49	-0.85	2.3	-5.6
15,402.0	88.50	0.50	12,672.5	2,244.0	-7.7	4.55	3.62	-2.77	7.5	-9.3
15,495.0	89.70	0.80	12,674.0	2,337.0	-6.7	1.33	1.29	0.32	9.0	-11.0
15,589.0	91.20	1.80	12,673.3	2,430.9	-4.6	1.92	1.60	1.06	8.3	-13.9
15,683.0	89.20	358.80	12,672.9	2,524.9	-4.1	3.84	-2.13	-3.19	7.9	-15.1
15,777.0	89.20	359.90	12,674.2	2,618.9	-5.1	1.17	0.00	1.17	9.2	-14.8
15,871.0	89.50	1.50	12,675.3	2,712.9	-4.0	1.73	0.32	1.70	10.3	-16.6
15,964.0	89.00	0.10	12,676.5	2,805.9	-2.7	1.60	-0.54	-1.51	11.5	-18.6



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PVA

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Survey

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16,057.0	89.10	1.30	12,678.1	2,898.9	-1.5	1.29	0.11	1.29	13.1	-20.5
16,151.0	90.70	359.70	12,678.2	2,992.8	-0.7	2.41	1.70	-1.70	13.2	-22.0
16,244.0	90.70	359.40	12,677.1	3,085.8	-1.5	0.32	0.00	-0.32	11.9	-22.0
16,337.0	89.50	357.60	12,676.9	3,178.8	-3.9	2.33	-1.29	-1.94	11.5	-20.3
16,432.0	92.20	359.50	12,675.5	3,273.7	-6.3	3.48	2.84	2.00	9.8	-18.6
16,526.0	89.10	357.00	12,674.5	3,367.7	-9.2	4.24	-3.30	-2.66	8.6	-16.4
16,619.0	87.50	356.10	12,677.2	3,460.5	-14.8	1.97	-1.72	-0.97	11.1	-11.5
16,712.0	89.20	356.80	12,679.9	3,553.2	-20.5	1.98	1.83	0.75	13.5	-8.5
16,806.0	89.10	357.40	12,681.3	3,647.1	-25.3	0.65	-0.11	0.64	14.7	-2.5
16,900.0	90.40	357.60	12,681.7	3,741.0	-29.4	1.40	1.38	0.21	14.8	0.9
16,995.0	90.60	357.70	12,680.9	3,835.9	-33.3	0.24	0.21	0.11	13.8	4.1
17,088.0	89.30	358.20	12,680.9	3,928.9	-36.6	1.50	-1.40	0.54	13.6	6.7
17,181.0	90.50	359.00	12,681.1	4,021.8	-38.9	1.55	1.29	0.86	13.6	8.3
17,275.0	89.30	0.10	12,681.3	4,115.8	-39.6	1.73	-1.28	1.17	13.5	8.3
17,369.0	91.30	0.10	12,680.8	4,209.8	-39.4	2.13	2.13	0.00	12.8	7.4
17,463.0	89.90	0.00	12,679.8	4,303.8	-39.4	1.49	-1.49	-0.11	11.5	6.6
17,557.0	88.90	1.20	12,680.8	4,397.8	-38.4	1.66	-1.06	1.28	12.3	4.9
17,651.0	89.70	1.80	12,681.9	4,491.8	-35.9	1.06	0.85	0.64	13.2	1.7
17,744.0	86.10	0.50	12,685.3	4,584.7	-34.0	4.12	-3.87	-1.40	16.4	-0.8
17,837.0	89.20	359.30	12,689.2	4,677.6	-34.2	3.57	3.33	-1.29	20.0	-1.4
17,931.0	88.10	358.80	12,691.4	4,771.5	-35.8	1.29	-1.17	-0.53	21.9	-0.5
18,025.0	90.40	358.00	12,692.6	4,865.5	-38.4	2.59	2.45	-0.85	22.9	1.4
18,118.0	90.90	359.40	12,691.5	4,958.4	-40.5	1.60	0.54	1.51	21.6	2.8
18,211.0	89.00	359.10	12,691.6	5,051.4	-41.7	2.07	-2.04	-0.32	21.5	3.3
18,305.0	92.50	359.30	12,690.4	5,145.4	-43.0	3.73	3.72	0.21	19.9	3.9
18,398.0	89.30	0.50	12,688.9	5,238.4	-43.2	3.67	-3.44	1.29	18.2	3.3
18,491.0	91.40	5.40	12,688.4	5,331.2	-38.4	5.73	2.26	5.27	17.3	-2.2



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18,585.0	90.30	359.40	12,687.0	5,425.1	-34.5	6.49	-1.17	-6.38	15.6	-6.8
18,679.0	90.70	358.50	12,686.1	5,519.1	-36.2	1.05	0.43	-0.96	14.5	-5.8
18,772.0	91.70	356.00	12,684.2	5,611.9	-40.7	2.89	1.08	-2.69	12.3	-2.1
18,866.0	91.20	355.40	12,681.8	5,705.6	-47.7	0.83	-0.53	-0.64	9.6	4.2
18,960.0	92.40	356.90	12,678.9	5,799.4	-54.0	2.04	1.28	1.60	6.4	9.8
19,053.0	91.30	359.20	12,675.9	5,892.3	-57.2	2.74	-1.18	2.47	3.1	12.3
19,147.0	92.20	1.20	12,673.0	5,986.2	-56.8	2.33	0.96	2.13	-0.1	11.2
19,241.0	87.30	359.40	12,673.4	6,080.2	-56.4	5.55	-5.21	-1.91	0.0	10.0
19,334.0	90.10	0.40	12,675.5	6,173.1	-56.5	3.20	3.01	1.08	1.8	9.5
19,428.0	92.70	1.60	12,673.2	6,267.1	-54.9	3.05	2.77	1.28	-0.8	7.1
19,521.0	91.20	1.50	12,670.1	6,360.0	-52.4	1.62	-1.61	-0.11	-4.2	3.9
19,614.0	89.90	0.60	12,669.2	6,453.0	-50.7	1.70	-1.40	-0.97	-5.4	1.5
19,705.0	90.70	1.00	12,668.7	6,544.0	-49.4	0.98	0.88	0.44	-6.2	-0.5
Last MWD Survey										
19,758.0	90.70	1.00	12,668.0	6,597.0	-48.5	0.00	0.00	0.00	-7.0	-1.8
Projection To Bit										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
19,705.0	12,668.7	6,544.0	-49.4	Last MWD Survey
19,758.0	12,668.0	6,597.0	-48.5	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____