



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Peachtree 24 Fed Com

#703H

OH

Design: OH

Midland PVA

16 January, 2019

HOBBS OCD
APR 25 2019
RECEIVED



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3391.0usft
 MD Reference: KB = 25 @ 3391.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Peachtree 24 Fed Com

Site Position:		Northing:	372,756.00 usft	Latitude:	32° 1' 19.840 N
From: Map		Easting:	793,433.00 usft	Longitude:	103° 31' 11.665 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:	372,751.00 usft	Latitude:	32° 1' 19.865 N
	+E-W	0.0 usft	Easting:	792,433.00 usft	Longitude:	103° 31' 23.280 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,366.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/18/2018	6.75	59.86	47,669.29954882

Design OH

Audit Notes:		Phase:	ACTUAL	Tie On Depth:	0.0
Version:	1.0				
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.0	0.0	0.0	1.68	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #703H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3391.0usft
Site:	Peachtree 24 Fed Com	MD Reference:	KB = 25 @ 3391.0usft
Well:	#703H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program	Date	1/16/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
155.0	11,863.0	MS MWD (OH)	MWD	OWSG MWD - Standard	
12,061.0	22,891.0	OWG Directional (OH)	MWD	OWSG MWD - Standard	

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLog ("/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
155.0	0.79	148.45	155.0	-0.9	0.6	0.51	0.51	0.00	-1.1	0.0
291.0	1.19	140.01	291.0	-2.8	2.0	0.31	0.29	-6.21	-3.4	-0.3
466.0	2.51	134.21	465.9	-8.9	5.9	0.76	0.75	-3.31	-9.0	-0.8
617.0	2.68	109.16	616.7	-10.3	11.6	0.75	0.11	-16.59	-14.3	-6.0
679.0	3.78	104.68	678.6	-11.3	14.9	1.82	1.77	-7.23	-17.3	-7.2
772.0	2.42	95.63	771.5	-12.3	19.8	1.55	-1.46	-9.73	-20.9	-10.3
866.0	1.58	65.57	865.4	-11.9	23.0	1.40	-0.89	-31.98	-16.0	-20.4
932.0	1.98	59.68	931.4	-11.0	24.8	0.67	0.61	-8.92	-15.9	-22.0
1,052.0	1.89	68.38	1,051.3	-9.2	28.4	0.26	-0.07	7.25	-23.0	-19.1
1,146.0	1.49	69.96	1,145.3	-8.2	31.0	0.43	-0.43	1.68	-26.3	-18.4
1,241.0	1.19	61.09	1,240.3	-7.3	33.1	0.38	-0.32	-9.34	-25.4	-22.4
1,335.0	1.19	60.12	1,334.2	-6.4	34.8	0.02	0.00	-1.03	-27.0	-22.8
1,429.0	1.10	56.61	1,428.2	-5.4	36.4	0.12	-0.10	-3.73	-27.4	-24.5
1,618.0	0.79	49.93	1,617.2	-3.5	38.9	0.17	-0.16	-3.53	-27.5	-27.7
1,712.0	0.70	52.74	1,711.2	-2.8	39.8	0.10	-0.10	2.99	-30.0	-26.3
1,806.0	0.40	43.25	1,805.2	-2.2	40.5	0.33	-0.32	-10.10	-26.2	-31.0
1,900.0	0.31	52.21	1,899.2	-1.8	40.9	0.11	-0.10	9.53	-31.2	-26.5
1,994.0	0.30	29.01	1,993.2	-1.4	41.2	0.13	-0.01	-24.68	-16.8	-36.8
2,088.0	0.09	355.61	2,087.2	-1.1	41.4	0.24	-0.22	-35.53	4.3	-41.2
2,181.0	0.22	25.32	2,180.2	-0.9	41.4	0.16	0.14	31.95	-16.9	-37.8



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3391.0usft
 MD Reference: KB = 25 @ 3391.0usft
 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)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,275.0	0.31	67.77	2,274.2	-0.6	41.7	0.22	0.10	45.16	-38.4	-16.4
2,370.0	0.31	84.16	2,369.2	-0.4	42.2	0.02	0.00	-3.80	-37.8	-18.8
2,464.0	0.31	83.59	2,463.2	-0.3	42.7	0.11	0.00	20.67	-42.4	-5.1
2,558.0	2.29	116.72	2,557.2	-1.1	44.6	2.17	2.11	35.24	-38.8	19.0
2,651.0	4.88	123.58	2,650.0	-4.1	49.6	2.82	2.78	7.38	-39.7	23.0
2,745.0	7.21	124.98	2,743.4	-9.7	57.7	2.48	2.48	1.49	-42.7	22.4
2,839.0	6.68	125.69	2,836.7	-16.3	67.0	0.57	-0.56	0.76	-46.0	20.8
2,932.0	6.11	124.11	2,929.2	-22.2	75.5	0.64	-0.61	-1.70	-49.0	17.4
3,026.0	5.89	121.38	3,022.7	-27.6	83.8	0.38	-0.23	-2.90	-51.6	13.2
3,120.0	5.80	117.95	3,116.2	-32.3	92.1	0.38	-0.10	-3.65	-53.7	8.7
3,214.0	5.89	115.67	3,209.7	-36.6	100.6	0.26	0.10	-2.43	-55.5	5.6
3,308.0	5.71	113.29	3,303.2	-40.5	109.3	0.32	-0.19	-2.53	-57.0	2.6
3,403.0	5.19	109.25	3,397.8	-43.8	117.7	0.68	-0.55	-4.25	-57.8	-1.6
3,497.0	4.88	109.08	3,491.4	-46.5	125.5	0.33	-0.33	-0.18	-57.8	-1.7
3,591.0	4.48	110.39	3,585.1	-49.1	132.7	0.44	-0.43	1.39	-57.3	-0.3
3,686.0	4.31	105.74	3,679.8	-51.4	139.6	0.42	-0.18	-4.89	-56.1	-4.6
3,779.0	4.70	89.04	3,772.5	-53.0	146.7	0.64	0.42	-6.24	-54.7	-9.2
3,872.0	4.88	96.60	3,865.2	-54.1	154.4	0.36	0.19	-3.59	-54.0	-10.7
3,966.0	4.31	92.82	3,958.9	-54.7	161.9	0.69	-0.61	-4.02	-52.9	-12.0
4,059.0	4.31	87.10	4,051.6	-54.7	168.9	0.46	0.00	-6.15	-50.9	-14.4
4,153.0	3.69	83.94	4,145.4	-54.2	175.4	0.70	-0.66	-3.36	-49.2	-13.8
4,247.0	4.31	95.89	4,239.2	-54.3	181.9	1.10	0.66	12.71	-49.6	-0.7
4,341.0	4.31	100.11	4,332.9	-55.3	188.9	0.34	0.00	4.49	-48.5	4.6
4,434.0	3.78	95.98	4,425.7	-56.2	195.4	0.65	-0.57	-4.44	-47.4	2.8
4,529.0	4.70	116.63	4,520.4	-56.3	202.0	1.86	0.97	21.74	-42.0	19.5
4,623.0	4.79	121.91	4,614.1	-62.1	208.8	0.47	0.10	5.62	-39.7	21.9
4,716.0	3.78	112.50	4,706.8	-65.3	214.9	1.32	-1.09	-10.12	-41.6	14.2



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3391.0usft
 MD Reference: KB = 25 @ 3391.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	NS (usft)	EW (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
4,810.0	4.40	108.62	4,800.8	-67.5	221.2	0.80	0.66	-6.26	-41.3	10.0
4,905.0	4.62	105.47	4,895.3	-69.6	228.4	0.25	0.23	-1.21	-40.7	9.8
4,999.0	4.40	109.87	4,989.0	-71.8	235.4	0.44	-0.23	4.68	-39.1	13.2
5,092.0	3.60	108.79	5,081.8	-73.9	241.8	0.89	-0.86	-3.31	-38.1	11.3
5,133.0	3.21	106.26	5,122.7	-74.6	243.9	0.95	-0.95	-1.29	-37.1	11.2
5,259.0	2.42	95.54	5,248.8	-75.8	250.0	0.75	-0.63	-8.51	-34.0	6.2
5,354.0	3.21	103.45	5,343.5	-76.6	254.5	0.92	0.83	8.33	-29.2	12.1
5,448.0	3.91	105.74	5,437.3	-78.1	260.2	0.76	0.74	2.44	-26.4	13.9
5,542.0	4.00	104.86	5,531.0	-79.8	266.4	0.12	0.10	-0.94	-25.0	14.2
5,635.0	4.09	103.10	5,623.8	-81.4	272.8	0.18	0.10	-1.89	-23.9	14.3
5,727.0	3.91	105.12	5,715.8	-82.9	279.0	0.25	-0.20	2.20	-21.8	16.0
5,823.0	3.52	101.87	5,811.4	-84.4	285.1	0.46	-0.41	-3.39	-20.6	15.7
5,917.0	3.30	100.02	5,905.2	-85.5	290.6	0.26	-0.23	-1.97	-18.6	16.4
6,011.0	3.38	101.87	5,999.1	-86.5	295.9	0.14	0.09	1.97	-15.5	18.2
6,105.0	3.30	102.66	6,092.9	-87.7	301.3	0.10	-0.09	0.84	-12.6	19.5
6,200.0	2.99	98.62	6,187.8	-88.6	308.4	0.40	-0.33	-4.25	-11.0	20.0
6,294.0	2.59	96.86	6,281.6	-89.3	310.9	0.44	-0.43	-1.87	-8.2	21.5
6,387.0	2.20	97.83	6,374.6	-89.8	314.8	0.42	-0.42	1.04	-3.8	23.4
6,482.0	2.11	94.93	6,469.5	-90.2	318.3	0.15	-0.09	-3.05	-0.6	25.2
6,575.0	1.80	92.82	6,562.4	-90.4	321.5	0.34	-0.33	-2.27	3.1	27.5
6,669.0	1.98	93.28	6,656.4	-90.5	324.6	0.19	0.19	0.47	8.0	29.9
6,762.0	3.30	113.29	6,749.3	-91.7	328.7	1.71	1.42	21.54	21.7	25.4
6,856.0	3.60	110.83	6,843.1	-93.8	333.9	0.36	0.32	-2.62	23.1	26.1
6,949.0	3.60	109.25	6,935.9	-95.8	339.4	0.11	0.00	-1.70	24.6	26.7
7,044.0	3.69	108.72	7,030.7	-97.8	345.1	0.10	0.09	-0.56	26.6	27.1
7,138.0	3.30	111.71	7,124.6	-99.7	350.5	0.46	-0.41	3.18	30.4	25.6
7,232.0	3.60	109.60	7,218.4	-101.7	355.8	0.35	0.32	-2.24	29.9	26.7



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3391.0usft
 MD Reference: KB = 25 @ 3391.0usft
 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)
7,326.0	3.21	116.11	7,312.2	-103.9	360.9	0.58	-0.41	6.93	30.0	23.2
7,420.0	3.12	117.43	7,408.1	-108.2	365.6	0.12	-0.10	1.40	25.7	22.5
7,514.0	2.99	120.59	7,500.0	-108.7	369.9	0.23	-0.14	3.38	21.9	21.2
7,608.0	2.99	156.71	7,593.8	-112.2	373.0	1.97	0.00	38.43	25.7	5.7
7,702.0	2.99	152.85	7,687.7	-116.6	375.1	0.21	0.00	-4.11	20.4	7.2
7,796.0	1.89	148.34	7,781.6	-120.1	377.1	1.20	-1.17	-6.93	15.4	9.2
7,889.0	1.19	103.71	7,874.8	-121.6	378.9	1.39	-0.75	-45.84	3.0	16.2
7,982.0	0.48	145.02	7,987.8	-122.1	380.0	0.95	-0.76	44.42	11.9	10.8
8,076.0	0.48	189.23	8,061.6	-122.8	380.2	0.38	0.00	47.03	15.3	-0.3
8,170.0	0.88	197.85	8,155.6	-123.9	378.9	0.44	0.43	9.17	14.0	-2.5
8,262.0	1.19	208.20	8,247.6	-125.4	378.3	0.37	0.34	9.08	11.8	-4.4
8,356.0	1.41	207.78	8,341.5	-127.3	378.3	0.24	0.23	1.68	9.6	-4.7
8,450.0	1.49	198.90	8,435.5	-128.5	377.4	0.25	0.09	-9.45	7.8	-3.4
8,544.0	1.41	199.60	8,528.5	-131.8	376.6	0.09	-0.09	0.74	5.4	-3.4
8,638.0	1.41	180.55	8,623.4	-134.0	376.0	0.24	0.00	-9.63	3.6	-2.7
8,731.0	1.41	199.69	8,716.4	-136.2	375.4	0.24	0.00	9.83	0.8	-3.1
8,825.0	1.71	197.49	8,810.4	-138.6	374.6	0.33	0.32	-2.34	-1.6	-3.1
8,919.0	1.19	199.78	8,904.4	-140.9	373.8	0.56	-0.55	2.44	-4.1	-3.0
9,014.0	1.19	192.05	8,999.3	-142.8	373.3	0.17	0.00	-8.14	-5.6	-3.8
9,108.0	1.49	208.57	9,093.3	-144.8	372.5	0.52	0.32	17.57	-8.6	-1.6
9,201.0	1.41	224.13	9,186.3	-146.7	371.1	0.43	-0.09	16.73	-11.0	1.1
9,295.0	0.70	263.94	9,280.3	-147.6	369.7	1.04	-0.76	42.35	-9.2	8.6
9,389.0	0.62	268.04	9,374.3	-147.6	368.7	0.11	-0.09	5.43	-9.5	9.5
9,483.0	1.71	0.44	9,468.2	-146.2	368.2	1.95	1.16	97.23	8.3	9.8
9,577.0	1.98	19.52	9,562.2	-143.3	368.7	0.71	0.29	20.30	8.1	7.0
9,671.0	1.80	357.02	9,656.1	-140.3	369.2	0.81	-0.19	-23.94	1.8	8.9
9,765.0	2.29	330.47	9,750.1	-137.2	368.2	1.12	0.52	-28.24	-5.5	8.1



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3391.0usft
 MD Reference: KB = 25 @ 3391.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)
9,859.0	2.99	305.78	9,844.0	-134.1	365.3	1.40	0.74	-26.27	-12.6	4.3
9,952.0	3.38	336.63	9,936.9	-130.2	362.2	1.87	0.42	33.17	-13.4	11.4
10,046.0	3.21	336.71	10,030.7	-125.2	360.1	0.18	-0.18	0.09	-18.8	11.4
10,141.0	2.11	322.65	10,125.6	-121.4	358.0	1.34	-1.16	-14.80	-25.4	5.9
10,234.0	2.81	302.35	10,218.5	-118.8	355.0	1.19	0.75	-21.83	-29.7	-3.9
10,328.0	2.68	282.13	10,312.4	-117.1	350.9	1.03	-0.14	-21.51	-30.9	-14.7
10,423.0	2.59	297.43	10,407.3	-115.7	346.8	0.74	-0.09	16.11	-38.0	-5.5
10,516.0	2.81	286.79	10,500.2	-114.0	342.8	0.59	0.24	-11.44	-40.6	-12.8
10,611.0	2.42	262.88	10,595.1	-113.6	338.6	1.21	-0.41	-25.17	-36.1	-29.1
10,704.0	2.11	231.95	10,688.0	-114.9	335.3	1.34	-0.33	-33.28	-19.4	-44.5
10,797.0	2.29	230.45	10,781.0	-117.1	332.5	0.20	0.19	-1.61	-21.8	-45.1
10,892.0	1.98	223.69	10,875.9	-119.5	329.9	0.42	-0.33	-7.12	-19.9	-47.5
10,986.0	2.20	224.65	10,969.8	-122.0	327.5	0.24	0.23	1.02	-24.1	-47.2
11,079.0	2.59	218.85	11,062.8	-124.9	324.9	0.49	0.42	-6.24	-23.1	-49.6
11,173.0	3.12	218.24	11,156.6	-128.6	322.0	0.56	0.56	-0.65	-27.2	-49.8
11,268.0	3.21	219.20	11,251.5	-132.7	318.7	0.11	0.09	1.01	-33.3	-49.3
11,361.0	1.89	210.77	11,344.4	-136.0	316.3	1.47	-1.42	-9.06	-29.8	-54.1
11,454.0	1.01	202.24	11,437.4	-138.1	315.2	0.97	-0.95	-8.17	-23.8	-58.1
11,549.0	1.32	104.42	11,532.4	-139.1	315.9	1.86	0.33	-102.97	59.8	-16.5
11,643.0	1.01	116.46	11,626.3	-139.8	317.7	0.42	-0.33	12.81	53.2	-28.4
11,737.0	2.20	143.71	11,720.3	-141.6	319.5	1.47	1.27	28.99	31.7	-49.2
11,830.0	1.32	121.38	11,813.3	-143.6	321.5	1.18	-0.95	-24.01	45.3	-34.2
11,925.0	0.62	199.34	11,908.2	-144.6	322.3	1.41	-0.74	82.06	-24.7	-50.4
11,963.0	0.31	238.63	11,946.2	-144.9	322.1	1.13	-0.82	103.39	-51.3	-23.2
12,061.0	1.19	256.29	12,044.2	-145.3	320.9	0.92	0.90	18.02	-57.2	-6.5
12,154.0	0.75	252.84	12,137.2	-145.7	319.4	0.47	-0.47	-3.71	-58.3	-10.0

KOP 12154.0' MD; 12137.2' TVD; -145.7; 319.4; 0.75



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3391.0usft
 MD Reference: KB = 25 @ 3391.0usft
 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)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,155.0	0.75	252.78	12,138.2	-145.7	319.4	0.47	-0.47	-5.88	-58.3	-10.0
12,249.0	10.73	21.27	12,231.7	-137.7	322.0	11.83	10.62	136.89	21.6	51.7
12,343.0	21.27	26.37	12,321.9	-114.2	332.7	11.30	11.21	5.43	14.9	42.8
12,411.1	29.71	26.79	12,383.3	-88.0	345.9	12.40	12.39	0.62	5.9	32.1
FTP Crossing 12411.1' MD; 12383.3' TVD; -88.0°; 345.9°; 29.71										
12,437.0	32.92	28.90	12,405.5	-76.0	351.9	12.40	12.39	0.42	2.2	26.9
12,531.0	41.98	21.89	12,480.0	-23.9	375.3	10.16	9.64	-5.33	-10.0	5.0
12,625.0	48.53	15.65	12,546.2	39.3	398.5	8.41	6.97	-6.64	-13.3	-17.6
12,719.0	57.89	10.55	12,602.5	112.5	413.4	10.86	9.96	-5.43	-8.2	-36.6
12,759.0	58.99	12.75	12,623.4	145.9	420.2	5.43	2.75	5.50	-5.7	-44.0
12,813.0	65.23	15.21	12,648.6	192.2	431.8	12.24	11.56	4.56	0.3	-56.6
12,841.0	74.99	15.65	12,658.2	217.5	438.8	34.89	34.86	1.57	4.4	-63.9
12,908.0	94.99	17.14	12,664.0	281.2	457.6	29.83	29.85	2.22	5.0	-82.5
13,002.0	91.52	10.11	12,658.6	372.3	479.6	8.33	-3.69	-7.48	-5.9	-105.4
13,096.0	88.97	8.18	12,658.2	465.1	494.6	3.40	-2.71	-2.05	-7.1	-121.0
13,190.0	88.88	0.44	12,660.0	558.8	501.6	8.23	-0.10	-8.23	-4.9	-128.8
13,284.0	90.51	358.60	12,660.5	652.8	500.8	2.61	1.73	-1.96	-4.4	-128.7
13,378.0	88.84	353.24	12,661.0	746.5	494.2	5.97	-1.78	-5.70	-3.5	-122.7
13,472.0	92.04	352.71	12,660.3	839.8	482.7	3.45	3.40	-0.56	-5.0	-111.9
13,567.0	91.08	350.95	12,657.7	933.8	469.2	2.11	-1.01	-1.85	-7.4	-99.1
13,661.0	88.44	351.57	12,658.1	1,028.7	454.9	2.88	-2.81	0.66	-6.3	-85.5
13,756.0	87.47	352.01	12,661.5	1,120.6	441.3	1.12	-1.02	0.46	-2.7	-72.7
13,849.0	92.66	354.55	12,661.4	1,213.0	430.5	6.21	5.58	2.73	-3.5	-62.4
13,944.0	88.09	352.71	12,660.8	1,307.3	419.9	5.19	-4.81	-1.94	-3.6	-52.6
14,038.0	88.22	355.87	12,663.8	1,400.8	410.6	3.36	0.14	3.36	-0.6	-44.0
14,132.0	88.70	353.50	12,666.3	1,494.4	401.9	2.57	0.51	-2.52	1.9	-35.9
14,226.0	88.92	356.40	12,668.3	1,588.0	393.6	3.09	0.23	3.09	3.9	-28.4



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3391.0usft
 MD Reference: KB = 25 @ 3391.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	EW (usft)	DLeg (°/100usft)	Buid (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
14,321.0	89.27	354.91	12,669.8	1,682.7	386.4	1.61	0.37	-1.57	5.4	-21.9	
14,416.0	91.82	358.25	12,668.9	1,777.5	380.7	4.42	2.68	3.52	4.5	-18.9	
14,510.0	92.75	359.13	12,665.1	1,871.4	378.6	1.38	0.99	0.94	0.8	-15.5	
14,604.0	92.84	359.65	12,660.6	1,965.3	377.8	0.56	0.10	0.55	-3.7	-15.2	
14,699.0	92.44	1.59	12,658.2	2,060.2	378.8	2.08	-0.42	2.04	-8.1	-16.9	
14,793.0	90.11	2.82	12,654.1	2,154.1	382.2	2.80	-2.48	1.31	-10.1	-21.2	
14,887.0	89.36	1.41	12,654.5	2,248.0	385.7	1.70	-0.80	-1.50	-9.7	-25.4	
15,010.0	90.15	1.76	12,655.1	2,370.9	389.1	0.70	0.64	0.28	-9.1	-29.7	
15,104.0	86.68	3.52	12,657.7	2,464.8	393.4	4.14	-3.69	1.87	-6.6	-34.7	
15,198.0	87.47	357.98	12,662.5	2,558.6	394.8	5.95	0.84	-5.89	-1.8	-36.6	
15,292.0	87.69	357.19	12,668.4	2,652.5	390.7	0.87	0.23	-0.84	2.5	-33.3	
15,386.0	88.70	359.13	12,669.4	2,746.4	387.7	2.33	1.07	2.06	5.4	-31.0	
15,481.0	88.88	358.16	12,671.4	2,841.3	385.4	1.04	0.19	-1.02	7.4	-29.5	
15,575.0	88.88	357.98	12,673.2	2,935.2	382.3	0.19	0.00	-0.19	9.2	-27.0	
15,669.0	92.31	358.69	12,672.2	3,029.2	379.5	3.73	3.85	0.76	8.2	-25.0	
15,763.0	91.91	358.42	12,668.8	3,123.1	377.2	0.51	-0.43	-0.29	4.8	-23.3	
15,857.0	92.79	359.21	12,664.9	3,217.0	375.2	1.26	0.94	0.84	0.9	-22.1	
15,952.0	84.48	355.43	12,667.2	3,311.7	370.8	9.61	-8.75	-3.98	3.3	-18.3	
16,045.0	84.97	356.14	12,675.7	3,404.1	364.0	0.92	0.53	0.76	11.8	-12.2	
16,139.0	89.58	356.31	12,680.2	3,497.8	357.8	4.91	4.90	0.18	16.2	-8.7	
16,232.0	90.59	357.37	12,680.1	3,590.6	352.7	1.57	1.09	1.14	16.1	-2.3	
16,326.0	89.93	356.49	12,679.6	3,684.5	347.6	1.17	-0.70	-0.94	15.6	2.1	
16,419.0	91.65	355.96	12,678.4	3,777.3	341.5	1.94	1.85	-0.57	14.4	7.5	
16,513.0	93.10	357.10	12,674.5	3,871.0	335.8	1.96	1.54	1.21	10.5	12.5	
16,607.0	92.88	357.46	12,669.6	3,964.8	331.4	0.45	-0.23	0.38	5.6	16.2	
16,701.0	89.71	359.39	12,667.4	4,058.7	328.8	3.95	-3.37	2.05	3.4	18.1	
16,795.0	91.52	1.67	12,668.4	4,152.7	329.7	3.10	1.93	2.43	2.4	18.6	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3391.0usft
 MD Reference: KB = 25 @ 3391.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLog (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
16,890.0	89.36	2.48	12,665.7	4,247.6	333.1	2.42	-2.27	0.83	1.7	12.4
16,983.0	89.89	0.18	12,668.3	4,340.6	335.2	2.52	0.57	-2.45	2.3	9.8
17,077.0	86.86	1.94	12,669.0	4,434.5	337.0	3.73	-3.22	1.87	5.0	7.2
17,170.0	86.95	1.08	12,674.0	4,527.3	339.4	0.95	0.10	-0.95	10.0	4.1
17,263.0	86.81	1.15	12,679.1	4,620.2	341.2	0.18	-0.15	0.10	15.1	1.6
17,357.0	89.58	358.95	12,682.0	4,714.1	341.3	3.76	2.95	-2.34	18.0	0.8
17,451.0	92.22	358.42	12,680.5	4,808.1	339.1	2.86	2.81	-0.58	18.5	2.3
17,544.0	92.44	357.02	12,678.8	4,900.9	335.4	1.52	0.24	-1.51	12.8	5.3
17,638.0	92.35	359.04	12,672.8	4,994.8	332.2	2.15	-0.10	2.15	8.8	7.8
17,732.0	91.47	357.72	12,669.7	5,088.7	329.5	1.89	-0.94	-1.40	5.7	9.8
17,826.0	88.04	1.59	12,670.1	5,182.7	329.0	5.50	-3.65	4.12	6.1	9.6
17,921.0	91.21	2.46	12,670.7	5,277.6	332.3	3.46	3.34	0.92	6.7	5.6
18,014.0	92.04	3.17	12,668.1	5,370.4	336.9	1.17	0.89	0.78	4.0	0.3
18,108.0	89.93	0.62	12,666.5	5,464.4	340.0	3.52	-2.24	-2.71	2.4	-3.5
18,202.0	89.23	2.03	12,667.2	5,558.3	342.2	1.67	-0.74	1.50	3.0	-6.3
18,296.0	90.33	3.87	12,667.5	5,652.2	347.0	2.28	1.17	1.98	3.3	-11.9
18,390.0	89.98	1.85	12,667.3	5,746.1	351.7	2.18	-0.37	-2.15	3.0	-17.3
18,484.0	88.13	3.26	12,668.8	5,840.0	355.9	2.47	-1.97	1.50	4.4	-22.1
18,578.0	86.33	4.93	12,673.4	5,933.6	362.6	2.61	-1.91	1.78	8.8	-29.6
18,671.0	87.34	1.67	12,678.5	6,026.3	367.9	3.66	1.09	-3.51	14.0	-35.6
18,765.0	90.77	2.20	12,680.1	6,120.2	371.1	3.69	3.65	0.56	15.6	-39.4
18,859.0	89.32	0.36	12,680.0	6,214.2	373.2	2.49	-1.54	-1.98	15.4	-42.2
18,953.0	88.66	357.28	12,681.6	6,308.1	371.3	3.35	-0.70	-3.28	17.0	-41.0
19,047.0	89.27	357.19	12,683.3	6,402.0	366.7	0.66	0.65	-0.10	18.7	-37.1
19,141.0	89.76	358.25	12,684.1	6,495.9	363.0	1.24	0.52	1.13	19.4	-34.1
19,235.0	90.73	0.53	12,683.7	6,589.9	362.0	2.84	1.03	2.43	18.9	-33.8
19,329.0	90.46	356.58	12,682.7	6,683.9	359.6	4.21	-0.29	-4.20	17.9	-32.1



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3391.0usft
 MD Reference: KB = 25 @ 3391.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,422.0	90.33	355.28	12,682.1	6,776.6	353.0	1.43	-0.14	-1.42	17.2	-26.2
19,516.0	90.59	356.66	12,681.4	6,870.4	348.4	1.51	0.28	1.49	16.4	-20.3
19,610.0	89.93	353.59	12,680.9	6,964.0	338.4	3.34	-0.70	-3.27	15.9	-12.9
19,704.0	89.89	356.66	12,681.1	7,057.7	330.4	3.27	-0.04	3.27	16.0	-5.7
19,798.0	89.71	0.62	12,681.4	7,151.6	328.2	4.22	-0.19	4.21	16.2	-4.1
19,892.0	90.59	2.73	12,681.2	7,245.6	330.9	2.43	0.94	2.24	15.9	-7.6
19,986.0	89.98	359.13	12,680.7	7,339.6	332.5	3.88	-0.65	-3.83	15.4	-9.8
20,080.0	90.02	359.30	12,680.7	7,433.6	331.2	0.19	0.04	0.18	15.4	-9.2
20,174.0	89.76	0.36	12,680.9	7,527.6	330.9	1.16	-0.28	1.13	15.5	-9.6
20,268.0	89.71	0.71	12,681.3	7,621.5	331.8	0.38	-0.05	0.37	15.8	-11.2
20,362.0	90.11	2.55	12,681.5	7,715.5	334.4	2.00	0.43	1.96	15.9	-14.6
20,457.0	90.20	2.20	12,681.2	7,810.4	338.4	0.38	0.09	-0.37	15.6	-19.2
20,551.0	90.90	1.15	12,680.3	7,904.4	341.1	1.34	0.74	-1.12	14.7	-22.6
20,645.0	89.76	0.18	12,679.8	7,998.4	342.2	1.59	-1.21	-1.03	14.1	-24.4
20,740.0	89.80	359.21	12,680.1	8,093.4	341.7	1.02	0.04	-1.02	14.4	-24.8
20,834.0	89.76	0.18	12,680.5	8,187.4	341.2	1.03	-0.04	1.03	14.7	-24.8
20,928.0	90.73	1.85	12,680.1	8,281.3	342.9	2.05	1.03	1.78	14.2	-27.2
21,022.0	88.75	1.06	12,680.5	8,375.3	345.3	2.27	-2.11	-0.84	14.6	-30.3
21,115.0	87.08	358.51	12,683.9	8,468.2	344.9	3.28	-1.80	-2.74	17.9	-30.6
21,209.0	86.46	357.89	12,689.2	8,562.0	342.0	0.93	-0.66	-0.66	23.0	-28.4
21,302.0	90.02	357.28	12,692.0	8,654.9	338.1	3.88	3.83	-0.66	25.7	-25.1
21,397.0	91.65	356.93	12,690.7	8,749.8	333.3	1.75	1.72	-0.37	24.1	-21.0
21,491.0	89.41	353.94	12,689.8	8,843.4	325.8	3.97	-2.38	-3.18	23.0	-14.2
21,585.0	89.27	354.20	12,690.9	8,936.9	316.1	0.31	-0.15	0.28	23.9	-5.2
21,679.0	88.49	355.43	12,691.9	9,030.5	307.6	1.33	0.23	1.31	24.7	2.6
21,772.0	90.29	356.05	12,692.1	9,123.3	300.7	1.09	0.88	0.87	24.6	8.8
21,867.0	89.27	356.31	12,692.4	9,218.1	294.3	1.11	-1.07	0.27	24.8	14.4



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Peachtree 24 Fed Com
 Well: #703H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #703H
 TVD Reference: KB = 25 @ 3391.0usft
 MD Reference: KB = 25 @ 3391.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
21,960.0	89.49	357.37	12,693.4	9,310.9	289.2	1.16	0.24	1.14	25.6	18.8
22,053.0	88.97	357.98	12,694.7	9,403.8	285.4	0.88	-0.58	0.68	26.6	21.9
22,147.0	90.55	358.95	12,695.1	9,497.8	282.9	1.97	1.68	1.03	26.8	23.8
22,240.0	90.02	359.74	12,694.6	9,580.8	281.9	1.02	-0.57	0.85	26.1	24.1
22,334.0	89.32	0.18	12,695.2	9,664.8	281.8	0.88	-0.74	0.47	26.5	23.5
22,427.0	89.85	1.32	12,695.8	9,777.8	283.0	1.35	0.57	1.23	26.9	21.6
22,521.0	88.84	1.59	12,696.9	9,871.7	285.4	1.11	-1.07	0.29	27.8	18.5
22,614.0	89.93	2.55	12,697.9	9,964.7	288.8	1.56	1.17	1.03	28.6	14.5
22,708.0	89.49	3.70	12,698.4	10,058.5	293.9	1.31	-0.47	1.22	28.9	8.6
22,802.0	90.46	4.66	12,698.4	10,152.3	300.7	1.45	1.03	1.02	28.7	1.1
Last MWD Survey (MD = 22802.0)										
22,891.0	90.46	4.66	12,697.7	10,241.0	308.0	0.00	0.00	0.00	27.8	-6.8
Projection to Bit (MD = 22891.0)										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,154.0	12,137.2	-145.7	319.4	KOP 12154.0' MD; 12137.2' TVD; -145.7'; 319.4'; 0.75
12,411.1	12,383.3	-88.0	345.9	FTP Crossing 12411.1' MD; 12383.3' TVD; -88.0'; 345.9'; 29.71
22,802.0	12,698.4	10,152.3	300.7	Last MWD Survey (MD = 22802.0)
22,891.0	12,697.7	10,241.0	308.0	Projection to Bit (MD = 22891.0)

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)
Peachtree 24 Fed Com #703H
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: #703H

KB = 25 @ 3391.00ft
Northing 372751.00 Easting 792433.00 Latitude 32° 1' 19.865 N Longitude 103° 31' 23.280 W

Adjustment to Grid North
True North: 4.42°
Magnetic North: 8.32°

Magnetic Pole
Wanderpole #703H
BIP Angle: 88.35°
Case: Spiral
Model: IOW-2014

To convert a Magnetic Direction to a Grid Direction, Add 8.32°
To convert a Magnetic Direction to a True Direction, Add 8.75° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

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	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2749.8	5.00	110.06	2749.4	-3.7	10.2	2.00	110.06	-3.4	
4	7121.5	5.00	110.06	7104.8	-134.3	367.8	0.00	0.00	-123.4	
5	7371.2	0.00	0.00	7354.0	-138.0	378.0	2.00	180.00	-126.9	
6	12204.7	0.00	0.00	12187.5	-138.0	378.0	0.00	0.00	-126.9	
7	12954.9	90.02	359.58	12865.0	339.8	374.5	12.00	359.58	350.5	TGT#1(PT 24 Fed Com #703H)
8	15308.0	90.02	359.58	12864.0	2690.7	357.1	0.00	0.00	2700.0	
9	15307.2	90.00	359.58	12864.0	2691.9	357.1	2.00	180.00	2701.2	TGT#2(PT 24 Fed Com #703H)
0	17907.8	90.00	359.58	12864.0	5292.4	337.8	0.00	0.00	5300.0	
1	17909.6	89.96	359.58	12864.0	5294.2	337.8	2.00	-180.00	5301.8	
2	21109.9	89.96	359.58	12866.0	8494.4	314.1	0.00	0.00	8500.0	TGT#3(PT 24 Fed Com #703H)
3	21114.6	89.87	359.58	12866.0	8499.1	314.1	2.00	180.00	8504.6	
4	22880.6	89.87	359.58	12670.0	10265.0	301.0	0.00	0.00	10269.4	PBHL(PT 24 Fed Com #703H)

CASING DETAILS

No casing data is available

WELLSBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
TGT#1(PT 24 Fed Com #703H)	12864.0	2690.7	357.1	376441.70	792780.06
TGT#2(PT 24 Fed Com #703H)	12864.0	5292.4	337.8	378243.40	792770.81
TGT#3(PT 24 Fed Com #703H)	12866.0	8494.4	314.1	381245.40	792747.11
PBHL(PT 24 Fed Com #703H)	12670.0	10265.0	301.0	383216.00	792734.00
Brushy Top(PT 24 Fed Com #703H)	7934.0	-138.0	378.0	372519.00	792811.00
FTPT(PT 24 Fed Com #703H)	12685.0	-89.0	378.0	372693.00	792811.00

