



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Date 14 State Com

#602H

OH

Design: OH

Midland PVA

15 October, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #602H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB= 25' @ 3811.0usft
Site:	Date 14 State Com	MD Reference:	KB= 25' @ 3811.0usft
Well:	#602H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Project	Lea County, NM (NAD 83 NME)	System Datum:	Mean Sea Level
Map System:	US State Plane 1983		
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Date 14 State Com		
Site Position:			
From:	Map	Northing: 536,428.00 usft	Latitude: 32° 28' 19.914 N
Position Uncertainty:	0.0 usft	Easting: 786,265.00 usft	Longitude: 103° 32' 20.860 W
		Slot Radius: 13-3/16 "	Grid Convergence: 0.43 °

Well	#602H		
Well Position	+N/-S 0.0 usft	Northing: 536,428.00 usft	Latitude: 32° 28' 19.914 N
	+E/-W 0.0 usft	Easting: 786,265.00 usft	Longitude: 103° 32' 20.860 W
Position Uncertainty	0.0 usft	Wellhead Elevation: usft	Ground Level: 3,786.0 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/13/2019	6.71	60.26	47,854.84135059

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 10,020.0	
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.0	0.0	0.0	355.54



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Survey Program		Date											
From (usft)	To (usft)	Survey (Wellbore)		Tool Name		Description							
158.0	10,020.0	HTMWMD (Pilot)		MWD	OWSG MWD - Standard								
10,135.0	21,132.0	HTMWMD (OH)		MWD	OWSG MWD - Standard								
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)			
0.0	0.00	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0	0.0			
158.0	0.66	214.41	158.0	-0.8	-0.5	0.42	0.42	0.00	0.00	0.0			
330.0	0.31	206.77	330.0	-2.0	-1.3	0.21	-0.20	-4.44	0.0	0.0			
507.0	0.26	215.73	507.0	-2.7	-1.7	0.04	-0.03	5.06	0.0	0.0			
691.0	1.05	295.36	691.0	-2.4	-3.5	0.56	0.43	43.28	0.0	0.0			
877.0	0.44	277.96	877.0	-1.5	-5.7	0.35	-0.33	-9.35	0.0	0.0			
1,065.0	1.45	254.93	1,064.9	-2.0	-8.8	0.56	0.54	-12.25	0.0	0.0			
1,251.0	1.36	236.74	1,250.9	-3.9	-12.9	0.24	-0.05	-9.78	0.0	0.0			
1,438.0	1.19	217.14	1,437.8	-6.6	-15.9	0.25	-0.09	-10.48	0.0	0.0			
1,625.0	1.32	210.46	1,624.8	-10.0	-18.2	0.10	0.07	-3.57	0.0	0.0			
1,812.0	2.20	202.29	1,811.7	-15.2	-20.6	0.49	0.47	-4.37	0.0	0.0			
1,931.0	2.15	189.63	1,930.6	-19.5	-21.9	0.41	-0.04	-10.64	0.0	0.0			
2,086.0	2.11	180.75	2,085.5	-25.2	-22.4	0.21	-0.03	-5.73	0.0	0.0			
2,273.0	3.43	194.11	2,272.3	-34.1	-23.8	0.78	0.71	7.14	0.0	0.0			
2,460.0	5.80	220.92	2,458.7	-46.7	-31.4	1.68	1.27	14.34	0.0	0.0			
2,648.0	8.70	233.75	2,645.2	-62.3	-49.0	1.76	1.54	6.82	0.0	0.0			
2,836.0	11.34	241.57	2,830.3	-79.5	-76.8	1.58	1.40	4.16	0.0	0.0			
3,022.0	8.84	244.30	3,013.4	-94.4	-105.7	1.37	-1.34	1.47	0.0	0.0			
3,208.0	6.86	245.26	3,197.7	-105.2	-128.7	1.07	-1.06	0.52	0.0	0.0			
3,394.0	6.90	245.97	3,382.3	-114.4	-149.0	0.05	0.02	0.38	0.0	0.0			
3,581.0	5.58	257.13	3,568.2	-121.0	-168.1	0.96	-0.71	5.97	0.0	0.0			

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 Grid
 Minimum Curvature
 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)
	3,768.0	6.24	263.55	3,754.2	-124.2	-187.1	0.50	0.35	3.43	0.0	0.0
	3,955.0	6.90	270.31	3,940.0	-125.3	-208.4	0.54	0.35	3.61	0.0	0.0
	4,142.0	8.57	265.66	4,125.3	-126.3	-233.5	0.95	0.89	-2.49	0.0	0.0
	4,329.0	8.09	253.26	4,310.3	-131.1	-260.0	0.99	-0.26	-6.63	0.0	0.0
	4,516.0	9.23	243.51	4,495.2	-141.6	-286.1	0.99	0.61	-5.21	0.0	0.0
	4,704.0	4.97	232.34	4,681.7	-153.3	-306.0	2.37	-2.27	-5.94	0.0	0.0
	4,891.0	5.80	212.57	4,867.9	-166.2	-317.5	1.08	0.44	-10.57	0.0	0.0
	5,078.0	3.56	193.06	5,054.3	-179.8	-323.9	1.45	-1.20	-10.43	0.0	0.0
	5,233.0	4.44	194.99	5,208.9	-190.3	-326.6	0.57	0.57	1.25	0.0	0.0
	5,342.0	5.10	198.95	5,317.5	-199.0	-329.2	0.68	0.61	3.63	0.0	0.0
	5,529.0	3.30	202.99	5,504.0	-211.8	-334.0	0.97	-0.96	2.16	0.0	0.0
	5,716.0	1.58	215.38	5,690.9	-218.9	-337.6	0.96	-0.92	6.63	0.0	0.0
	5,903.0	0.44	229.80	5,877.8	-221.4	-339.7	0.62	-0.61	7.71	0.0	0.0
	6,090.0	0.97	9.98	6,064.8	-220.3	-339.9	0.72	0.28	74.96	0.0	0.0
	6,277.0	1.32	2.25	6,251.8	-216.6	-339.6	0.20	0.19	-4.13	0.0	0.0
	6,465.0	1.80	40.83	6,439.7	-212.2	-337.6	0.60	0.26	20.52	0.0	0.0
	6,652.0	1.67	42.33	6,626.6	-208.0	-333.8	0.07	-0.07	0.80	0.0	0.0
	6,839.0	1.45	41.09	6,813.6	-204.2	-330.4	0.12	-0.12	-0.66	0.0	0.0
	7,026.0	1.19	36.70	7,000.5	-200.8	-327.7	0.15	-0.14	-2.35	0.0	0.0
	7,213.0	1.01	42.41	7,187.5	-198.1	-325.4	0.11	-0.10	3.05	0.0	0.0
	7,400.0	0.48	58.76	7,374.5	-196.4	-323.6	0.30	-0.28	8.74	0.0	0.0
	7,588.0	0.18	63.33	7,562.4	-195.9	-322.7	0.16	-0.16	2.43	0.0	0.0
	7,774.0	0.09	269.61	7,748.4	-195.8	-322.6	0.14	-0.05	-82.65	0.0	0.0
	7,962.0	0.18	306.61	7,936.4	-195.6	-323.0	0.06	0.05	19.68	0.0	0.0
	8,149.0	0.26	239.55	8,123.4	-195.6	-323.6	0.13	0.04	-35.86	0.0	0.0
	8,336.0	0.44	232.17	8,310.4	-196.3	-324.5	0.10	0.10	-3.95	0.0	0.0
	8,524.0	0.53	250.27	8,498.4	-197.0	-325.9	0.09	0.05	9.63	0.0	0.0

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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)
	8,617.0	0.62	267.33	8,591.4	-197.2	-326.8	0.21	0.10	18.34	0.0	0.0
	8,711.0	0.84	261.35	8,685.4	-197.3	-328.0	0.25	0.23	-6.36	0.0	0.0
	8,804.0	0.84	266.27	8,778.4	-197.5	-329.4	0.08	0.00	5.29	0.0	0.0
	8,897.0	1.01	274.97	8,871.4	-197.4	-330.8	0.24	0.18	9.35	0.0	0.0
	8,991.0	1.14	287.45	8,965.4	-197.1	-332.6	0.28	0.14	13.28	0.0	0.0
	9,038.0	1.19	291.93	9,012.4	-196.8	-333.5	0.22	0.11	9.53	0.0	0.0
	9,085.0	1.32	296.77	9,059.4	-196.3	-334.4	0.36	0.28	10.30	0.0	0.0
	9,132.0	1.41	294.04	9,106.4	-195.9	-335.4	0.24	0.19	-5.81	0.0	0.0
	9,178.0	1.45	292.29	9,152.3	-195.4	-336.5	0.13	0.09	-3.80	0.0	0.0
	9,225.0	1.41	290.18	9,199.3	-195.0	-337.6	0.14	-0.09	-4.49	0.0	0.0
	9,272.0	1.36	286.92	9,246.3	-194.6	-338.6	0.20	-0.11	-6.94	0.0	0.0
	9,291.0	1.45	283.67	9,265.3	-194.5	-339.1	0.63	0.47	-17.11	0.0	0.0
	9,366.0	1.58	273.48	9,340.3	-194.2	-341.0	0.40	0.17	-13.59	0.0	0.0
	9,460.0	1.63	270.31	9,434.2	-194.1	-343.7	0.11	0.05	-3.37	0.0	0.0
	9,553.0	1.98	275.15	9,527.2	-194.0	-346.6	0.41	0.38	5.20	0.0	0.0
	9,647.0	1.67	279.89	9,621.1	-193.6	-349.6	0.37	-0.33	5.04	0.0	0.0
	9,740.0	2.20	298.35	9,714.1	-192.5	-352.5	0.87	0.57	19.85	0.0	0.0
	9,834.0	2.02	308.90	9,808.0	-190.6	-355.3	0.45	-0.19	11.22	0.0	0.0
	9,927.0	1.71	314.43	9,901.0	-188.6	-357.6	0.39	-0.33	5.95	0.0	0.0
	10,020.0	1.76	320.67	9,993.9	-186.5	-359.5	0.21	0.05	6.71	0.0	0.0
	10,135.0	9.91	311.28	10,108.2	-178.6	-368.1	7.11	7.09	-8.17	-7.9	0.4
	10,308.0	7.78	299.24	10,279.2	-163.1	-389.5	1.62	-1.23	-6.96	-19.2	1.6
	10,341.0	6.97	300.11	10,311.9	-161.0	-393.2	2.48	-2.45	2.64	-20.2	3.1
	10,400.0	8.79	305.60	10,370.4	-156.6	-399.9	3.33	3.08	9.31	-21.5	7.0
KOP, MD:10400.0', TVD:10370.4', N/S:-156.6', EW:-399.9', INC:8.79											
	10,434.0	9.86	307.84	10,403.9	-153.3	-404.3	3.33	3.16	6.59	-21.0	8.7
	10,481.0	10.27	307.70	10,450.2	-148.3	-410.8	0.87	0.87	-0.30	-17.8	9.7

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	10,525.0	8.22	309.95	10,493.6	-143.8	-416.3	4.73	-4.66	5.11	-10.1	10.8
	10,572.0	15.78	324.89	10,539.6	-136.4	-422.6	17.26	16.09	31.79	1.4	9.0
	10,591.6	18.66	328.30	10,558.3	-131.6	-425.8	15.55	14.67	17.39	4.5	6.3
FTP Crossing, MD:10591.6', TVD:10558.3', N/S:-131.6', E/W:-425.8', INC:18.66											
	10,620.0	22.90	331.75	10,584.8	-122.9	-430.8	15.55	14.94	12.15	7.8	1.1
	10,716.0	36.26	323.14	10,668.2	-83.5	-456.8	14.57	13.92	-8.97	15.1	-14.0
	10,810.0	54.42	322.78	10,734.0	-30.4	-496.9	19.32	19.32	-0.38	11.9	-29.8
	10,903.0	65.05	328.58	10,780.8	36.0	-541.9	12.63	11.43	6.24	-7.0	-43.3
	10,917.3	65.47	328.96	10,786.8	47.1	-548.7	3.81	2.93	2.68	-10.4	-44.9
FTP(Date 14 SC 602H)											
	10,997.0	67.82	331.05	10,818.4	110.4	-585.2	3.81	2.95	2.62	-27.2	-49.4
	11,090.0	69.67	331.05	10,852.1	186.3	-627.2	1.99	1.99	0.00	-39.1	-44.9
	11,183.0	67.96	337.55	10,885.7	264.3	-664.8	6.77	-1.84	6.99	-40.1	-32.0
	11,276.0	72.44	347.92	10,917.3	347.8	-690.6	11.54	4.82	11.15	-30.4	-21.2
	11,369.0	75.30	353.63	10,943.2	435.9	-704.9	6.65	3.08	6.14	-13.3	-14.5
	11,463.0	84.22	355.83	10,959.9	527.9	-713.3	9.76	9.49	2.34	3.2	-6.8
	11,556.0	89.32	355.30	10,965.1	620.5	-720.5	5.51	5.48	-0.57	9.1	-0.4
	11,650.0	90.46	358.91	10,965.3	714.3	-725.3	4.03	1.21	3.84	9.9	3.7
	11,743.0	91.47	358.29	10,963.7	807.3	-727.5	1.27	1.09	-0.67	9.0	5.2
	11,836.0	88.22	1.19	10,964.0	900.3	-728.0	4.68	-3.49	3.12	9.9	4.9
	11,929.0	88.00	0.49	10,967.0	993.2	-726.6	0.79	-0.24	-0.75	13.6	2.8
	12,023.0	88.79	358.73	10,969.7	1,087.2	-727.2	2.05	0.84	-1.87	16.9	2.7
	12,116.0	91.74	356.18	10,969.2	1,180.1	-731.4	4.19	3.17	-2.74	17.1	6.1
	12,210.0	92.09	358.20	10,966.1	1,273.9	-736.0	2.18	0.37	2.15	14.6	10.0
	12,303.0	90.90	3.21	10,963.7	1,366.8	-734.8	5.54	-1.28	5.39	12.9	8.1
	12,396.0	89.93	3.13	10,963.0	1,459.7	-729.7	1.05	-1.04	-0.09	12.8	2.2
	12,490.0	90.33	2.69	10,962.8	1,553.5	-724.9	0.63	0.43	-0.47	13.3	-3.3

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12,583.0	90.73	2.51	10,961.9	1,646.4	-720.7	0.47	0.43	-0.19	13.1	-8.2
12,676.0	90.15	0.67	10,961.2	1,739.4	-718.1	2.07	-0.62	-1.98	13.0	-11.5
12,769.0	91.91	359.96	10,959.5	1,832.4	-717.6	2.04	1.89	-0.76	12.0	-12.8
12,862.0	89.80	359.17	10,958.1	1,925.4	-718.3	2.42	-2.27	-0.85	11.2	-12.8
12,956.0	88.79	357.68	10,959.3	2,019.3	-720.9	1.91	-1.07	-1.59	13.1	-11.0
13,049.0	90.81	356.09	10,959.6	2,112.2	-726.0	2.76	2.17	-1.71	14.0	-6.6
13,143.0	92.40	354.25	10,957.0	2,205.8	-733.9	2.59	1.69	-1.96	12.0	0.5
13,236.0	91.30	356.09	10,954.0	2,298.4	-741.7	2.30	-1.18	1.98	9.7	7.6
13,330.0	89.98	358.64	10,952.9	2,392.3	-746.0	3.05	-1.40	2.71	9.3	11.2
13,423.0	89.58	358.91	10,953.3	2,485.3	-748.0	0.52	-0.43	0.29	10.3	12.5
13,517.0	90.15	1.02	10,953.5	2,579.3	-748.1	2.33	0.61	2.24	11.2	11.8
13,565.2	90.63	0.79	10,953.2	2,627.5	-747.3	1.11	1.00	-0.47	11.2	10.6
TGT#1(Date 14 SC 602H)										
13,610.0	91.08	0.58	10,952.5	2,672.3	-746.8	1.11	1.00	-0.47	10.8	9.8
13,704.0	89.05	1.19	10,952.4	2,766.2	-745.3	2.25	-2.16	0.65	11.4	7.6
13,798.0	88.22	1.10	10,954.6	2,860.2	-743.4	0.89	-0.88	-0.10	14.3	5.0
13,891.0	87.87	0.93	10,957.8	2,953.1	-741.8	0.42	-0.38	-0.18	18.1	2.6
13,985.0	87.65	0.14	10,961.5	3,047.0	-740.9	0.87	-0.23	-0.84	22.4	1.0
14,079.0	89.49	0.31	10,963.8	3,141.0	-740.5	1.97	1.96	0.18	25.4	-0.1
14,173.0	89.89	358.91	10,964.3	3,235.0	-741.2	1.55	0.43	-1.49	26.5	-0.2
14,266.0	92.00	359.08	10,962.8	3,328.0	-742.8	2.28	2.27	0.18	25.6	0.7
14,360.0	93.19	358.56	10,958.6	3,421.9	-744.7	1.38	1.27	-0.55	22.0	1.9
14,453.0	92.97	359.08	10,953.6	3,514.7	-746.6	0.61	-0.24	0.56	17.7	3.0
14,547.0	91.78	0.49	10,949.7	3,608.6	-747.0	1.96	-1.27	1.50	14.4	2.7
14,640.0	89.71	359.96	10,948.5	3,701.6	-746.6	2.30	-2.23	-0.57	13.9	1.6
14,734.0	89.54	0.23	10,949.1	3,795.6	-746.5	0.34	-0.18	0.29	15.1	0.7
14,827.0	89.71	359.79	10,949.7	3,888.6	-746.5	0.51	0.18	-0.47	16.4	-0.1

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Date 14 State Com
Well: #602H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: KB= 25' @ 3811.0usft
MD Reference: KB= 25' @ 3811.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Well #602H
 KB= 25' @ 3811.0usft
 KB= 25' @ 3811.0usft
 Grid
 Minimum Curvature
 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)
14,920.0	90.24	359.00	10,949.7	3,981.6	-747.4	1.02	0.57	-0.85	17.1	0.2
15,015.0	91.21	358.38	10,948.5	4,076.6	-749.6	1.21	1.02	-0.65	16.5	1.6
15,107.0	91.08	0.14	10,946.7	4,168.5	-750.8	1.92	-0.14	1.91	15.3	2.1
15,201.0	89.89	1.63	10,945.9	4,262.5	-749.4	2.03	-1.27	1.59	15.2	-0.1
15,294.0	90.15	1.02	10,945.9	4,355.5	-747.2	0.71	0.28	-0.66	15.8	-3.0
15,389.0	90.15	359.96	10,945.6	4,450.5	-746.4	1.12	0.00	-1.12	16.2	-4.6
15,482.0	90.46	359.43	10,945.1	4,543.5	-746.9	0.66	0.33	-0.57	16.3	-4.8
15,575.0	88.48	359.52	10,946.0	4,636.5	-747.7	2.13	-2.13	0.10	17.8	-4.7
15,668.0	88.00	358.56	10,948.8	4,729.4	-749.3	1.15	-0.52	-1.03	21.3	-3.9
15,761.0	87.69	357.76	10,952.3	4,822.3	-752.3	0.92	-0.33	-0.86	25.5	-1.6
15,855.0	90.29	357.68	10,954.0	4,916.2	-756.0	2.77	2.77	-0.09	27.8	1.4
15,949.0	91.16	0.23	10,952.8	5,010.2	-757.7	2.87	0.93	2.71	27.2	2.4
16,042.0	91.74	359.79	10,950.4	5,103.1	-757.7	0.78	0.62	-0.47	25.5	1.6
16,136.0	92.04	359.26	10,947.3	5,197.1	-758.5	0.65	0.32	-0.56	23.1	1.7
16,229.0	92.35	358.73	10,943.8	5,290.0	-760.1	0.66	0.33	-0.57	20.1	2.6
16,323.0	93.89	358.64	10,938.7	5,383.8	-762.3	1.64	1.64	-0.10	15.7	4.0
16,417.0	90.42	358.91	10,935.1	5,477.7	-764.3	3.70	-3.69	0.29	12.8	5.3
16,510.0	91.91	359.26	10,933.2	5,570.7	-765.8	1.65	1.60	0.38	11.5	6.0
16,603.0	88.70	0.23	10,932.7	5,663.7	-766.2	3.61	-3.45	1.04	11.7	5.7
16,697.0	89.05	359.70	10,934.6	5,757.7	-766.2	0.68	0.37	-0.56	14.2	5.0
16,791.0	89.27	359.08	10,936.0	5,851.6	-767.2	0.70	0.23	-0.66	16.2	5.3
16,884.0	89.98	358.82	10,936.6	5,944.6	-768.9	0.81	0.76	-0.28	17.4	6.3
16,979.0	90.90	358.29	10,935.8	6,039.6	-771.3	1.12	0.97	-0.56	17.4	7.9
17,072.0	90.64	359.43	10,934.6	6,132.6	-773.2	1.26	-0.28	1.23	16.8	9.0
17,167.0	90.29	2.60	10,933.8	6,227.5	-771.5	3.36	-0.37	3.34	16.6	6.6
17,260.0	90.95	2.60	10,932.8	6,320.4	-767.3	0.71	0.71	0.00	16.3	1.7
17,354.0	88.40	2.51	10,933.3	6,414.3	-763.1	2.71	-2.71	-0.10	17.5	-3.3

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Date 14 State Com
Well: #602H
Wellbore: OH
Design: OH

Local Co-ordinate Reference:
TVD Reference: Well #602H
MD Reference: KB= 25' @ 3811.0usft
North Reference: KB= 25' @ 3811.0usft
Survey Calculation Method: Grid
Database: Minimum Curvature
 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)
	17,448.0	88.53	2.33	10,935.9	6,508.2	-759.1	0.24	0.14	-0.19	20.6	-8.0
	17,542.0	89.14	1.46	10,937.8	6,602.1	-756.0	1.13	0.65	-0.93	23.2	-11.8
	17,635.0	90.02	0.31	10,938.5	6,695.1	-754.6	1.56	0.95	-1.24	24.5	-14.0
	17,729.0	90.46	359.52	10,938.1	6,789.1	-754.7	0.96	0.47	-0.84	24.8	-14.6
	17,822.0	90.51	359.61	10,937.3	6,882.1	-755.4	0.11	0.05	0.10	24.6	-14.6
	17,916.0	91.21	359.79	10,935.9	6,976.1	-755.9	0.77	0.74	0.19	23.8	-14.9
	18,009.0	91.78	359.17	10,933.4	7,069.1	-756.8	0.91	0.61	-0.67	22.1	-14.8
	18,102.0	92.00	359.35	10,930.4	7,162.0	-758.0	0.31	0.24	0.19	19.6	-14.3
	18,195.0	90.90	359.00	10,928.0	7,255.0	-759.3	1.24	-1.18	-0.38	17.9	-13.7
	18,288.0	88.62	0.05	10,928.4	7,347.9	-760.1	2.70	-2.45	1.13	18.9	-13.6
	18,382.0	88.09	359.61	10,931.1	7,441.9	-760.4	0.73	-0.56	-0.47	22.3	-14.1
	18,476.0	90.20	359.00	10,932.5	7,535.9	-761.5	2.34	2.24	-0.65	24.3	-13.7
	18,569.0	90.37	359.96	10,932.0	7,628.9	-762.3	1.05	0.18	1.03	24.5	-13.6
	18,662.0	90.73	359.61	10,931.2	7,721.9	-762.7	0.54	0.39	-0.38	24.3	-14.0
	18,756.0	91.34	359.52	10,929.5	7,815.9	-763.4	0.66	0.65	-0.10	23.2	-14.0
	18,850.0	92.22	359.08	10,926.5	7,909.8	-764.6	1.05	0.94	-0.47	20.9	-13.6
	18,943.0	93.67	359.43	10,921.8	8,002.7	-765.8	1.60	1.56	0.38	16.8	-13.1
	19,037.0	93.41	0.23	10,916.0	8,096.5	-766.0	0.89	-0.28	0.85	11.6	-13.6
	19,131.0	91.16	0.93	10,912.2	8,190.4	-765.1	2.51	-2.39	0.74	8.6	-15.2
	19,225.0	92.57	1.28	10,909.1	8,284.3	-763.3	1.55	1.50	0.37	6.2	-17.8
	19,318.0	93.14	0.67	10,904.5	8,377.2	-761.7	0.90	0.61	-0.66	2.2	-20.1
	19,371.3	93.02	359.67	10,901.7	8,430.5	-761.5	1.88	-0.23	-1.87	-0.3	-20.7
TGT#2(Date 14 SC 602H)											
	19,412.0	92.92	358.91	10,899.5	8,471.1	-762.0	1.88	-0.23	-1.87	-2.1	-20.5
	19,506.0	91.03	358.82	10,896.3	8,565.0	-763.9	2.01	-2.01	-0.10	-4.5	-19.4
	19,599.0	88.70	357.68	10,896.5	8,657.9	-766.7	2.79	-2.51	-1.23	-3.4	-17.3
	19,693.0	89.80	357.41	10,897.8	8,751.8	-770.8	1.20	1.17	-0.29	-1.3	-14.0

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Date 14 State Com
Well: #602H
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Local Co-ordinate Reference:
TVD Reference: KB= 25' @ 3811.0usft
MD Reference: KB= 25' @ 3811.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Well #602H
 KB= 25' @ 3811.0usft
 KB= 25' @ 3811.0usft
 Grid
 Minimum Curvature
 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)
19,787.0	87.96	357.68	10,899.6	8,845.7	-774.8	1.98	-1.96	0.29	1.4	-10.7
19,880.0	88.13	357.33	10,902.8	8,938.6	-778.8	0.42	0.18	-0.38	5.4	-7.4
19,974.0	88.66	357.85	10,905.4	9,032.5	-782.8	0.79	0.56	0.55	8.9	-4.1
20,067.0	88.70	357.24	10,907.5	9,125.4	-786.8	0.66	0.04	-0.66	11.9	-0.9
20,161.0	89.27	357.06	10,909.2	9,219.2	-791.4	0.64	0.61	-0.19	14.4	3.0
20,255.0	89.93	356.71	10,909.9	9,313.1	-796.6	0.79	0.70	-0.37	15.9	7.4
20,348.0	92.22	359.17	10,908.1	9,406.0	-799.9	3.61	2.46	2.65	15.0	10.0
20,442.0	93.49	358.91	10,903.4	9,499.9	-801.5	1.38	1.35	-0.28	11.2	10.9
20,465.6	93.75	359.22	10,901.9	9,523.4	-801.9	1.72	1.10	1.32	9.9	11.1
TGT#3(Date 14 SC 602H)										
20,535.0	94.51	0.14	10,896.9	9,592.6	-802.2	1.72	1.10	1.32	5.7	10.9
20,629.0	92.53	0.49	10,891.2	9,686.4	-801.7	2.14	-2.11	0.37	1.1	9.6
20,722.0	91.34	0.14	10,888.0	9,779.4	-801.2	1.33	-1.28	-0.38	-1.0	8.4
20,815.0	92.00	0.23	10,885.3	9,872.3	-800.9	0.72	0.71	0.10	-2.6	7.4
20,909.0	93.19	0.23	10,881.1	9,966.2	-800.5	1.27	1.27	0.00	-5.7	6.3
21,003.0	94.24	0.05	10,875.0	10,060.1	-800.3	1.13	1.12	-0.19	-10.7	5.3
21,075.0	94.90	359.61	10,869.2	10,131.8	-800.5	1.10	0.92	-0.61	-15.6	5.0
Last MWD Survey (MD=21075.0')										
21,132.0	94.90	359.61	10,864.4	10,188.6	-800.9	0.00	0.00	0.00	-19.8	4.9
Projection to Bit (MD=21132.0') - PBHL(Date 14 SC 602H)										



Midland PVA

Company: Project: Site: Well: Wellbore: Design:	EOG Resources - Midland Lea County, NM (NAD 83 NME) Date 14 State Com #602H OH OH	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well #602H KB= 25' @ 3811.0usft KB= 25' @ 3811.0usft Grid Minimum Curvature EDM 5000.14
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Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		
		+N/-S (usft)	+E/-W (usft)	Comment
10,400.0	10,370.4	-156.6	-399.9	KOP, MD:10400.0', TVD:10370.4', N/S:-156.6', E/W:-399.9', INC:8.79
10,591.6	10,558.3	-131.6	-425.8	FTP Crossing, MD:10591.6', TVD:10558.3', N/S:-131.6', E/W:-425.8', INC:18.66
21,075.0	10,869.2	10,131.8	-800.5	Last MWD Survey (MD=21075.0')
21,132.0	10,864.4	10,188.6	-800.9	Projection to Bit (MD=21132.0')

Checked By: _____	Approved By: _____	Date: _____
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