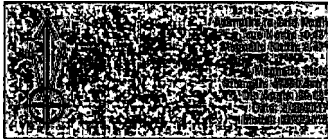




Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com #701H

Plan #1



To convert a Magnetic Direction to a Grid Direction, Add 6.47°
To convert a Magnetic Direction to a True Direction, Add 6.90° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

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: #701H

KB = 25' @ 3493.00ft
Northing 425996.00 Easting 794400.00
3498.0
Latitude 32° 10' 5.591 N Longitude 103° 30' 55.743 W

SECTION DETAILS

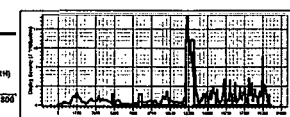
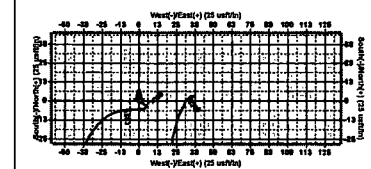
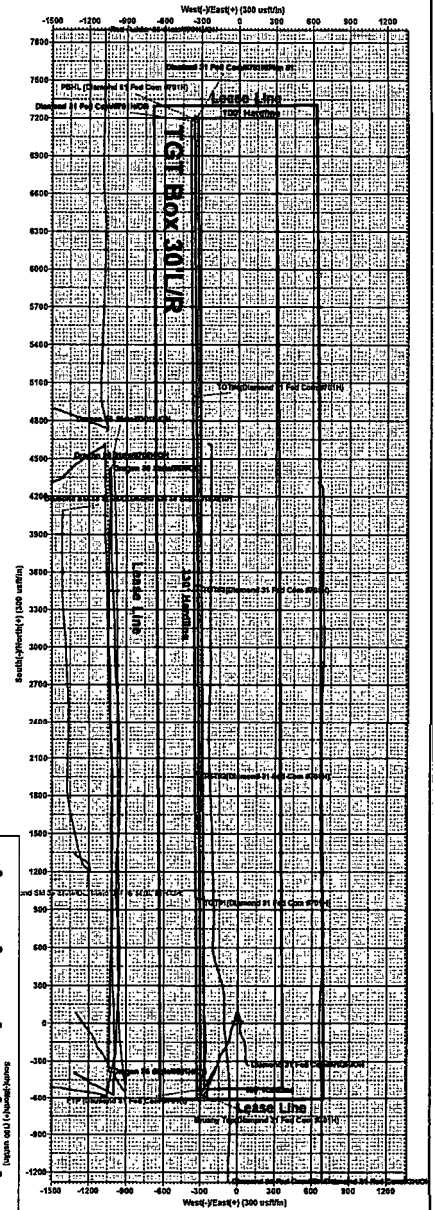
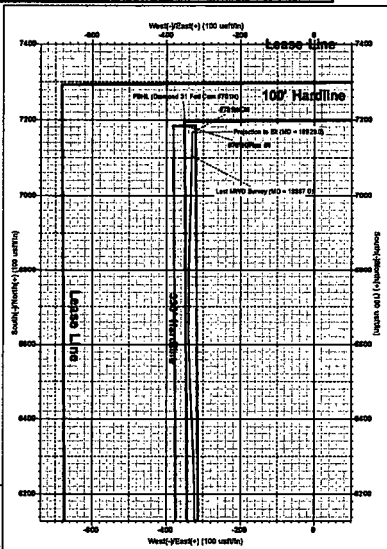
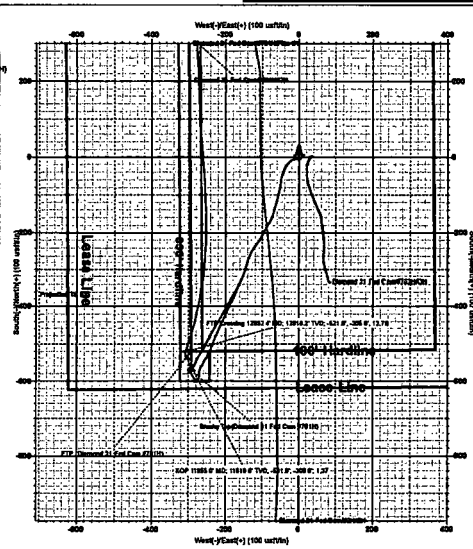
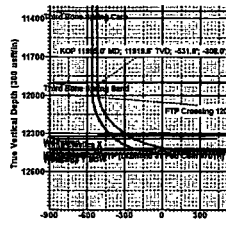
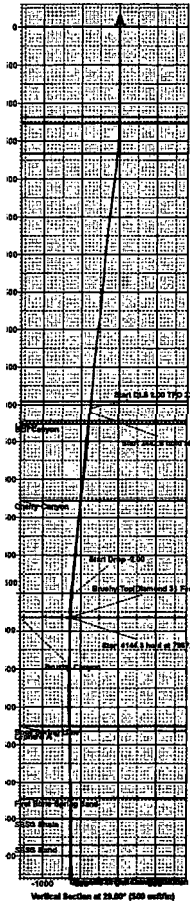
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	5064.0	4.67	204.68	5043.0	-338.3	-160.0	0.00	0.00	-330.1	
2	5124.4	5.80	209.42	5103.2	-343.2	-162.5	2.00	23.33	-334.9	
3	7567.3	5.80	209.42	7533.5	-558.2	-283.8	0.00	0.00	-543.8	
4	7857.2	0.00	0.00	7823.0	-571.0	-291.0	2.00	180.00	-556.2	
5	12001.5	0.00	0.00	11967.3	-571.0	-291.0	0.00	0.00	-556.2	
6	12752.7	90.15	359.56	12444.8	-92.3	-294.6	12.00	359.56	-77.9	Brushy Top(Diamond 31 Fed Com #701H)
7	13831.5	90.15	359.56	12442.0	986.4	-302.8	0.00	0.00	1000.0	TGT#1(Diamond 31 Fed Com #701H)
8	13844.3	90.40	359.56	12441.9	999.2	-302.9	2.00	0.00	1012.7	TGT#2(Diamond 31 Fed Com #701H)
9	14832.4	90.40	359.56	12435.0	1987.2	-310.5	0.00	0.00	2000.0	TGT#3(Diamond 31 Fed Com #701H)
10	14873.9	91.23	359.56	12434.4	2028.7	-310.8	2.00	0.00	2041.4	TGT#4(Diamond 31 Fed Com #701H)
11	16334.0	91.23	359.56	12403.0	3488.5	-321.9	0.00	0.00	3500.0	PBHL(Diamond 31 Fed Com #701H)
12	16339.2	91.34	359.56	12402.9	3493.7	-321.9	2.00	0.00	3505.2	
13	17835.7	91.34	359.56	12368.0	4989.7	-333.3	0.00	0.00	5000.0	
14	17838.1	91.38	359.56	12367.9	4992.1	-333.3	2.00	0.00	5002.4	
15	20030.7	91.38	359.56	12315.0	7184.0	-350.0	0.00	0.00	7192.5	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(Diamond 31 Fed Com #701H)	7823.0	-671.0	-291.0	425426.00	794108.00
PBHL(Diamond 31 Fed Com #701H)	12315.0	7184.0	-350.0	431180.00	794050.00
TGT#1(Diamond 31 Fed Com #701H)	12369.0	4989.7	-333.3	430985.70	794066.69
TGT#2(Diamond 31 Fed Com #701H)	12403.0	3488.5	-321.9	429484.50	794078.12
TGT#3(Diamond 31 Fed Com #701H)	12435.0	1987.2	-310.5	427985.20	794039.54
TGT#4(Diamond 31 Fed Com #701H)	12442.0	986.4	-302.8	426982.40	794097.16
FTP(Diamond 31 Fed Com #701H)	12446.0	-621.0	-291.0	425476.00	794109.00



Lea County, NM (NAD 83 NME)
Diamond 31 Fed Com #701H
Plan #1

HOBBS OCD

FEB 27 2019

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Diamond 31 Fed Com

#701H

OH

Design: OH

Midland PVA

05 December, 2018



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Diamond 31 Fed Com Well: #701H Wellbore: OH Design: OH	Local Co-ordinate Reference: TVD Reference: KB = 25' @ 3493.0usft MD Reference: KB = 25' @ 3493.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.14	Well #701H KB = 25' @ 3493.0usft KB = 25' @ 3493.0usft Grid Minimum Curvature EDM 5000.14
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Project Lea County, NM (NAD 83 NME)			
Map System: US State Plane 1983	System Datum: Mean Sea Level		
Geo Datum: North American Datum 1983			
Map Zone: New Mexico Eastern Zone			

Site Diamond 31 Fed Com			
Site Position:	Northing: 425,996.00 usft	Latitude: 32° 10' 6.586 N	
From: Map	Easting: 794,470.00 usft	Longitude: 103° 30' 54.529 W	
Position Uncertainty: 0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.44 °	

Well #701H			
Well Position +N-S 0.0 usft	Northing: 425,996.00 usft	Latitude: 32° 10' 6.591 N	
+E-W 0.0 usft	Easting: 794,400.00 usft	Longitude: 103° 30' 55.743 W	
Position Uncertainty 0.0 usft	Wellhead Elevation: usft	Ground Level: 3,468.0 usft	

Wellbore OH			
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	8/28/2017	6.90
			Dip Angle
			60.02
			Field Strength
			47,890.45413502

Design OH			
Audit Notes:			
Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.0	
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			357.41



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3493.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey Program		Date	12/5/2018	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
185.0	1,284.0	Cartel 41 8' KB + 17 (OH)	MWD	OWSG MWD - Standard
1,424.0	5,064.0	Cartel 18 + 3' KB (OH)	MWD	OWSG MWD - Standard
5,172.0	19,929.0	Newsco MWD (OH)	MWD	OWSG MWD - Standard

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	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
185.0	0.22	173.15	185.0	-0.4	0.0	0.12	0.12	0.00	0.0	0.0
372.0	0.22	144.32	372.0	-1.0	0.3	0.06	0.00	-15.42	0.0	0.0
528.0	0.75	91.41	528.0	-1.3	1.5	0.41	0.34	-33.92	0.0	0.0
688.0	0.26	147.13	688.0	-1.6	2.7	0.40	-0.31	34.83	0.0	0.0
848.0	0.66	115.58	848.0	-2.3	3.8	0.29	0.25	-19.72	0.0	0.0
1,006.0	0.35	142.38	1,006.0	-3.1	4.9	0.24	-0.20	16.96	0.0	0.0
1,165.0	0.55	180.61	1,165.0	-4.2	5.2	0.22	0.13	24.04	0.0	0.0
1,284.0	1.25	243.10	1,284.0	-5.4	4.0	0.93	0.59	52.51	0.0	0.0
1,427.0	3.12	274.83	1,426.9	-5.8	-1.3	1.51	1.31	22.19	0.0	0.0
1,602.0	5.12	256.61	1,601.4	-7.2	-13.6	1.35	1.14	-10.41	0.0	0.0
1,776.0	6.54	221.56	1,774.5	-16.4	-27.7	2.16	0.82	-20.14	0.0	0.0
1,951.0	7.57	204.80	1,948.2	-34.3	-39.2	1.31	0.59	-9.58	0.0	0.0
2,125.0	8.04	191.48	2,120.6	-56.6	-46.4	1.07	0.27	-7.66	0.0	0.0
2,256.0	7.55	189.31	2,250.4	-74.1	-49.6	0.44	-0.37	-1.66	0.0	0.0
2,430.0	6.80	192.32	2,423.1	-95.5	-53.7	0.48	-0.43	1.73	0.0	0.0
2,605.0	6.94	194.67	2,596.8	-115.8	-58.6	0.18	0.08	1.34	0.0	0.0
2,779.0	6.90	199.49	2,769.5	-135.8	-64.7	0.33	-0.02	2.77	0.0	0.0
2,954.0	5.81	194.18	2,943.5	-154.3	-70.4	0.71	-0.62	-3.03	0.0	0.0
3,128.0	5.42	214.14	3,116.6	-169.7	-77.2	1.14	-0.22	11.47	0.0	0.0



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3493.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
3,302.0	4.40	208.17	3,280.0	-182.4	-84.9	0.85	-0.59	-3.43	0.0	0.0	
3,477.0	5.47	210.58	3,464.4	-195.5	-92.3	0.82	0.61	1.38	0.0	0.0	
3,651.0	4.52	204.28	3,637.7	-208.8	-99.4	0.83	-0.55	-3.62	0.0	0.0	
3,826.0	6.76	218.42	3,811.8	-223.2	-108.6	1.50	1.28	8.08	0.0	0.0	
3,999.0	7.69	216.37	3,983.5	-240.5	-121.8	0.56	0.54	-1.18	0.0	0.0	
4,174.0	7.25	201.82	4,157.0	-260.2	-132.9	1.11	-0.25	-8.31	0.0	0.0	
4,348.0	6.17	197.00	4,329.8	-279.3	-139.7	0.70	-0.62	-2.77	0.0	0.0	
4,523.0	4.98	187.96	4,504.0	-295.8	-143.5	0.84	-0.68	-5.17	0.0	0.0	
4,697.0	4.65	199.36	4,677.4	-310.0	-146.9	0.58	-0.19	6.55	0.0	0.0	
4,872.0	5.04	207.59	4,851.7	-323.5	-152.8	0.45	0.22	4.70	0.0	0.0	
5,046.0	4.88	204.63	5,025.1	-337.0	-159.4	0.17	-0.09	-1.70	0.0	0.0	
5,064.0	4.67	204.68	5,043.0	-338.3	-160.0	1.17	-1.17	0.28	0.0	0.0	
5,172.0	3.60	203.70	5,150.7	-345.4	-163.2	0.99	-0.99	-0.91	2.5	0.8	
5,359.0	3.30	200.70	5,337.4	-355.8	-167.5	0.19	-0.16	-1.60	9.9	3.4	
5,546.0	4.90	201.70	5,523.9	-368.3	-172.3	0.88	0.86	0.53	15.3	5.9	
5,734.0	6.50	206.20	5,711.0	-385.3	-180.0	0.88	0.85	2.39	16.1	6.4	
5,921.0	6.80	207.80	5,896.7	-404.6	-189.8	0.19	0.16	0.86	13.5	6.8	
6,109.0	6.60	206.10	6,083.4	-424.1	-199.8	0.15	-0.11	-0.90	10.3	7.9	
6,297.0	6.20	203.50	6,270.3	-443.2	-208.6	0.26	-0.21	-1.38	7.9	9.8	
6,485.0	5.80	202.10	6,457.2	-461.3	-216.2	0.23	-0.21	-0.74	6.8	12.2	
6,673.0	5.70	202.40	6,644.3	-478.7	-223.3	0.06	-0.05	0.16	6.9	14.5	
6,861.0	5.80	202.20	6,831.4	-496.1	-230.5	0.05	0.05	-0.11	6.9	16.9	
7,048.0	5.50	202.80	7,017.4	-513.1	-237.5	0.16	-0.16	0.32	7.4	19.1	
7,236.0	5.00	206.90	7,204.7	-528.8	-244.7	0.33	-0.27	2.18	10.5	20.0	
7,424.0	4.90	207.00	7,392.0	-543.2	-252.1	0.05	-0.05	0.05	13.3	20.8	
7,612.0	4.00	213.70	7,579.4	-555.8	-259.4	0.55	-0.48	3.56	19.8	18.7	
7,799.0	2.90	211.30	7,766.0	-565.3	-265.4	0.59	-0.59	-1.28	17.6	18.9	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3493.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
7,986.0	2.90	193.30	7,952.8	-573.9	-269.0	0.48	0.00	-9.63	2.2	22.1	
8,174.0	2.60	175.60	8,140.6	-582.8	-269.8	0.48	-0.16	-9.41	-13.4	20.3	
8,361.0	1.90	183.10	8,327.5	-590.1	-269.6	0.41	-0.37	4.01	-17.9	22.4	
8,549.0	1.50	222.70	8,515.4	-595.1	-271.4	0.64	-0.21	21.06	-4.4	30.7	
8,736.0	1.60	288.80	8,702.3	-596.0	-275.6	0.91	0.05	35.35	22.7	18.7	
8,924.0	1.60	284.40	8,890.2	-594.5	-280.6	0.07	0.00	-2.34	15.9	20.2	
9,112.0	2.20	334.50	9,078.2	-590.6	-284.7	0.90	0.32	26.65	20.4	2.7	
9,300.0	1.90	330.90	9,266.0	-584.6	-287.8	0.17	-0.16	-1.91	13.5	3.8	
9,487.0	1.60	332.60	9,452.9	-579.6	-290.5	0.16	-0.16	0.91	7.9	3.5	
9,674.0	1.30	313.90	9,639.9	-575.8	-293.2	0.30	-0.16	-10.00	1.8	5.0	
9,863.0	3.50	12.80	9,828.7	-668.7	-293.5	1.61	1.16	31.16	-1.7	2.9	
10,050.0	5.30	7.70	10,015.2	-654.6	-291.0	0.98	0.98	-2.73	-16.3	2.3	
10,238.0	1.30	312.70	10,202.9	-544.5	-291.4	2.49	-2.13	-29.26	-18.3	-19.2	
10,426.0	1.70	306.80	10,390.8	-541.4	-295.2	0.23	0.21	-3.14	-21.1	-21.2	
10,613.0	0.90	234.60	10,577.7	-540.6	-298.7	0.89	-0.43	-38.61	11.4	-29.2	
10,801.0	0.40	337.80	10,765.7	-540.8	-300.1	0.57	-0.27	54.89	-31.4	-3.0	
10,988.0	0.70	300.80	10,952.7	-539.6	-301.3	0.24	0.16	-19.79	-24.9	-21.6	
11,176.0	1.40	3.40	11,140.7	-536.8	-302.2	0.66	0.37	33.30	-33.5	13.2	
11,363.0	1.10	348.60	11,327.7	-532.7	-302.4	0.23	-0.16	-7.91	-39.8	3.6	
11,550.0	0.40	295.70	11,514.6	-530.7	-303.4	0.49	-0.37	-28.29	-28.6	-31.0	
11,738.0	0.20	256.20	11,702.6	-530.5	-304.3	0.15	-0.11	-21.01	-3.2	-42.5	
11,849.0	1.60	240.30	11,813.6	-531.3	-305.8	1.27	1.26	-14.32	6.8	-41.8	
11,943.0	1.10	267.30	11,907.6	-532.0	-307.8	0.85	-0.53	28.72	-15.0	-39.8	
11,955.0	1.37	332.40	11,919.6	-531.9	-308.0	11.25	2.27	542.52	-42.6	-3.0	
KOP 11955.0	MD: 11919.6	TVD: -531.9	-308.0	1.37							
12,037.0	10.20	14.40	12,001.1	-523.9	-306.7	11.25	10.77	51.22	-40.4	26.6	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3493.0usft
	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3493.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
12,052.4	12.70	16.02	12,016.2	-521.0	-305.9	16.34	16.21	10.53	-41.3	27.3	
FTP Crossing 12052.4' MD; 12016.2' TVD; -521.0'; -305.9'; 12.70											
12,131.0	25.50	19.40	12,090.3	-496.6	-297.8	16.34	16.29	4.30	-50.9	24.2	
12,224.0	37.70	14.90	12,169.4	-450.1	-283.8	13.35	13.12	-4.84	-67.6	7.8	
12,318.0	46.40	11.40	12,239.1	-388.8	-269.7	9.58	9.26	-3.72	-78.6	-10.8	
12,413.0	56.90	6.60	12,298.0	-315.3	-258.3	11.74	11.05	-5.05	-81.3	-29.1	
12,506.0	63.20	2.40	12,344.4	-235.1	-252.0	7.82	6.77	-4.52	-75.2	-40.3	
12,601.0	71.80	358.90	12,380.8	-147.4	-251.1	9.67	9.05	-3.68	-60.0	-43.7	
12,711.0	76.70	355.70	12,410.6	-41.7	-256.1	5.26	4.45	-2.91	-33.1	-39.6	
12,805.0	84.40	355.00	12,426.1	50.6	-263.7	8.22	8.19	-0.74	-18.1	-32.2	
12,898.0	88.80	358.10	12,433.2	143.2	-269.2	4.21	2.58	3.33	-10.9	-27.2	
12,991.0	88.30	357.80	12,437.2	236.0	-272.6	1.64	1.61	-0.32	-8.7	-24.6	
13,085.0	90.20	358.10	12,438.4	330.0	-275.9	2.05	2.02	0.32	-5.3	-21.9	
13,179.0	90.60	358.00	12,437.7	423.9	-279.1	0.44	0.43	-0.11	-5.7	-19.5	
13,274.0	90.50	358.00	12,436.8	518.8	-282.4	0.11	-0.11	0.00	-6.4	-16.9	
13,368.0	90.40	357.60	12,436.1	612.8	-286.0	0.44	-0.11	-0.43	-6.9	-14.0	
13,461.0	91.40	358.30	12,434.6	705.7	-289.4	1.31	1.08	0.75	-8.1	-11.3	
13,554.0	91.90	358.70	12,432.0	798.6	-291.8	0.69	0.54	0.43	-10.5	-8.6	
13,648.0	90.10	359.40	12,430.3	892.6	-293.4	2.05	-1.91	0.74	-11.9	-8.8	
13,742.0	89.70	358.10	12,430.5	986.6	-295.4	1.45	-0.43	-1.38	-11.5	-7.4	
13,836.0	90.50	358.80	12,430.3	1,080.5	-297.9	1.20	0.85	0.85	-11.1	-5.7	
13,930.0	89.80	358.10	12,430.1	1,174.5	-300.3	1.13	-0.74	-0.85	-10.6	-3.9	
14,023.0	92.00	357.80	12,428.6	1,267.4	-303.7	2.39	2.37	-0.32	-11.4	-1.3	
14,117.0	92.10	357.80	12,425.2	1,361.3	-307.3	0.11	0.11	0.00	-14.1	1.6	
14,210.0	93.20	357.40	12,420.9	1,454.1	-311.2	1.26	1.18	-0.43	-17.8	4.8	
14,304.0	90.70	357.50	12,417.7	1,548.0	-315.3	2.66	-2.66	0.11	-20.3	8.2	
14,398.0	89.90	357.10	12,417.3	1,641.9	-319.8	0.95	-0.85	-0.43	-20.2	11.9	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3493.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
14,491.0	90.90	358.50	12,416.6	1,734.8	-323.3	1.85	1.08	1.51	-20.2	14.8	
14,584.0	93.50	0.40	12,413.0	1,827.7	-324.2	3.46	2.80	2.04	-23.1	15.0	
14,678.0	93.90	2.30	12,407.0	1,921.5	-322.0	2.06	0.43	2.02	-28.5	12.0	
14,771.0	91.80	2.30	12,402.3	2,014.3	-318.3	2.26	-2.26	0.00	-32.3	7.6	
14,865.0	91.00	2.90	12,400.0	2,108.1	-314.0	1.06	-0.85	0.64	-32.6	2.6	
14,958.0	89.30	0.90	12,399.8	2,201.1	-310.9	2.82	-1.83	-2.15	-30.9	-1.2	
15,052.0	89.40	1.00	12,400.9	2,295.1	-309.4	0.15	0.11	0.11	-27.8	-3.4	
15,146.0	89.90	1.30	12,401.4	2,389.0	-307.5	0.62	0.53	0.32	-25.2	-6.0	
15,239.0	90.00	1.10	12,401.5	2,482.0	-305.5	0.24	0.11	-0.22	-23.1	-8.7	
15,333.0	90.60	1.10	12,401.0	2,576.0	-303.7	0.64	0.64	0.00	-21.6	-11.2	
15,427.0	91.20	1.70	12,399.6	2,670.0	-301.4	0.90	0.64	0.64	-21.0	-14.2	
15,519.0	93.40	1.50	12,395.9	2,761.9	-298.9	2.40	2.39	-0.22	-22.7	-17.5	
15,613.0	89.70	359.00	12,393.3	2,855.8	-298.5	4.75	-3.94	-2.66	-23.3	-18.6	
15,708.0	89.80	359.00	12,393.7	2,950.8	-300.1	0.11	0.11	0.00	-20.8	-17.7	
15,802.0	89.80	358.90	12,394.1	3,044.8	-301.9	0.11	0.00	-0.11	-18.5	-16.7	
15,895.0	90.30	358.20	12,394.0	3,137.7	-304.2	0.92	0.54	-0.75	-16.6	-15.0	
15,989.0	90.80	358.70	12,393.1	3,231.7	-306.7	0.75	0.53	0.53	-15.4	-13.2	
16,083.0	89.80	357.50	12,392.6	3,325.6	-309.9	1.66	-1.06	-1.28	-13.9	-10.8	
16,177.0	94.00	358.40	12,389.5	3,419.5	-313.2	4.57	4.47	0.96	-15.0	-8.1	
16,271.0	93.60	359.00	12,383.2	3,513.3	-315.4	0.77	-0.43	0.64	-19.2	-6.7	
16,365.0	92.10	0.30	12,378.6	3,607.1	-315.9	2.11	-1.60	1.38	-21.7	-6.9	
16,459.0	91.70	0.70	12,375.5	3,701.1	-315.1	0.60	-0.43	0.43	-22.6	-8.4	
16,553.0	92.40	1.20	12,372.1	3,795.0	-313.5	0.91	0.74	0.53	-23.8	-10.7	
16,646.0	88.90	359.60	12,371.0	3,888.0	-312.9	4.14	-3.76	-1.72	-22.6	-12.0	
16,739.0	88.80	359.90	12,372.9	3,981.0	-313.3	0.34	-0.11	0.32	-18.6	-12.3	
16,833.0	89.10	0.20	12,374.6	4,075.0	-313.2	0.45	0.32	0.32	-14.7	-13.1	
16,927.0	88.70	0.80	12,376.4	4,168.9	-312.4	0.77	-0.43	0.64	-10.7	-14.7	

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3493.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)
17,021.0	89.70	0.20	12,377.7	4,262.9	-311.6	1.24	1.06	-0.64	-7.2	-16.2
17,114.0	92.60	359.00	12,375.9	4,355.9	-312.2	3.37	3.12	-1.29	-6.9	-16.2
17,208.0	93.60	358.50	12,370.8	4,449.7	-314.3	1.19	1.06	-0.53	-9.8	-14.9
17,302.0	94.50	358.40	12,364.2	4,543.5	-316.8	0.96	0.96	-0.11	-14.3	-13.1
17,396.0	92.40	359.10	12,358.5	4,637.3	-318.9	2.35	-2.23	0.74	-17.7	-11.8
17,488.0	91.40	0.40	12,355.4	4,729.2	-319.3	1.78	-1.09	1.41	-18.6	-12.1
17,582.0	88.60	0.40	12,355.4	4,823.2	-318.6	2.98	-2.98	0.00	-16.4	-13.4
17,676.0	89.00	0.40	12,357.4	4,917.2	-317.9	0.43	0.43	0.00	-12.3	-14.8
17,769.0	88.50	359.60	12,359.4	5,010.1	-317.9	1.01	-0.54	-0.86	-8.1	-15.5
17,862.0	88.40	0.10	12,362.0	5,103.1	-318.2	0.55	-0.11	0.54	-3.3	-16.0
17,956.0	93.00	359.50	12,360.8	5,197.1	-318.5	4.94	4.89	-0.64	-2.2	-16.4
18,050.0	94.50	359.60	12,354.7	5,290.9	-319.3	1.60	1.60	0.11	-6.1	-16.3
18,144.0	96.20	358.70	12,345.9	5,384.4	-320.6	2.04	1.81	-0.96	-12.6	-15.7
18,238.0	92.50	359.60	12,338.8	5,478.1	-322.0	4.05	-3.94	0.96	-17.4	-15.0
18,331.0	93.20	359.80	12,334.1	5,571.0	-322.5	0.78	0.75	0.22	-19.8	-15.2
18,425.0	93.30	0.70	12,328.8	5,664.9	-322.1	0.96	0.11	0.96	-22.9	-16.4
18,519.0	90.60	0.60	12,325.6	5,758.8	-321.0	2.87	-2.87	-0.11	-23.8	-18.1
18,613.0	92.00	0.50	12,323.5	5,852.8	-320.1	1.49	1.49	-0.11	-23.7	-19.7
18,707.0	90.70	359.60	12,321.3	5,946.7	-320.1	1.68	-1.38	-0.96	-23.6	-20.5
18,800.0	90.70	359.60	12,320.1	6,039.7	-320.7	0.00	0.00	0.00	-22.5	-20.6
18,894.0	91.90	359.60	12,318.0	6,133.7	-321.4	1.28	1.28	0.00	-22.4	-20.6
18,987.0	89.70	358.80	12,316.7	6,226.7	-322.7	2.52	-2.37	-0.86	-21.4	-20.1
19,081.0	88.80	357.80	12,317.9	6,320.6	-325.5	1.43	-0.96	-1.06	-17.9	-18.0
19,175.0	87.50	356.30	12,321.0	6,414.5	-330.3	2.11	-1.38	-1.60	-12.6	-13.9
19,269.0	95.60	358.10	12,318.4	6,508.2	-334.9	8.83	8.62	1.91	-12.9	-10.0
19,363.0	96.20	357.90	12,308.8	6,601.7	-338.1	0.67	0.64	-0.21	-20.3	-7.4
19,457.0	94.20	0.60	12,300.2	6,695.3	-339.2	3.74	-2.13	3.09	-26.5	-7.1



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3493.0usft
Site:	Diamond 31 Fed Com	MD Reference:	KB = 25' @ 3493.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey										
MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	E/W (usft)	DLog ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
19,551.0	91.60	1.10	12,295.5	6,789.1	-337.6	2.78	-2.77	0.32	-29.0	-9.4
19,645.0	93.20	1.60	12,291.6	6,883.0	-335.4	1.78	1.70	0.53	-30.7	-12.3
19,739.0	93.80	1.10	12,285.8	6,976.8	-333.2	0.83	0.64	-0.53	-34.2	-15.2
19,833.0	93.80	1.20	12,279.6	7,070.6	-331.3	0.11	0.00	0.11	-38.1	-17.8
19,867.0	94.00	1.80	12,277.3	7,104.5	-330.4	1.86	0.59	1.76	-39.6	-19.0
Last MWD Survey (MD = 19867.0)										
19,929.0	94.00	1.80	12,272.9	7,166.3	-328.5	0.00	0.00	0.00	-42.4	-21.4
Projection to Bit (MD = 19929.0)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
11,955.0	11,919.6	-531.9	-308.0	KOP 11955.0' MD; 11919.6' TVD; -531.9'; -308.0'; 1.37
12,052.4	12,016.2	-521.0	-305.9	FTP Crossing 12052.4' MD; 12016.2' TVD; -521.0'; -305.9'; 12.70
19,867.0	12,277.3	7,104.5	-330.4	Last MWD Survey (MD = 19867.0)
19,929.0	12,272.9	7,166.3	-328.5	Projection to Bit (MD = 19929.0)

Checked By: _____	Approved By: _____	Date: _____
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