



Lea County, NM (NAD 27 NME)
Rattlesnake 28 Fed Com #707H
H&P 610
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

WELL DETAILS: #707H

Ground Level: 3243.0
KB = 25' @ 3268.0usft (H&P 610)
Northing: 371648.00 Easting: 733813.00
Latitude: 32° 1' 10.291 N Longitude: 103° 34' 44.165 W

Azimuths to Grid North
True North: 0.40°
Magnetic North: 6.63°
Magnetic Field
Strength: 47902.3nT
Dip Angle: 59.89°
Date: 8/17/2016
Model: IGRF2015



To convert a Magnetic Direction to a Grid Direction, Add 6.63°
To convert a Magnetic Direction to a True Direction, Add 7.03° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

SECTION DETAILS

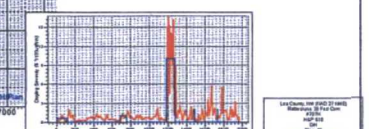
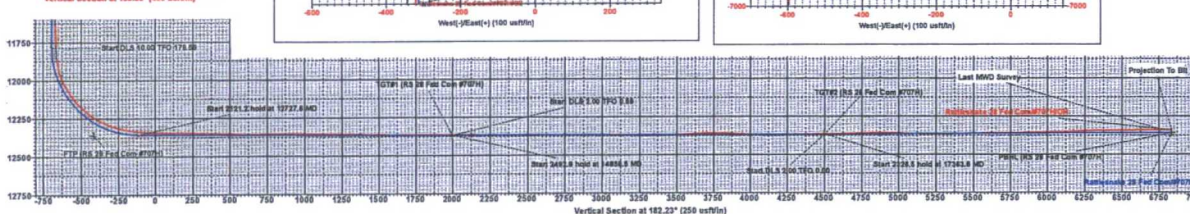
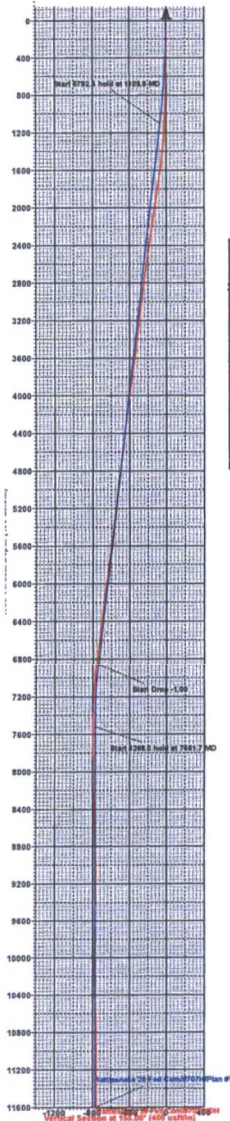
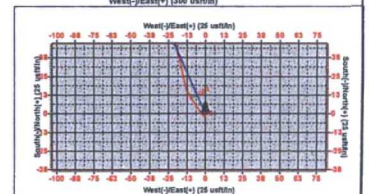
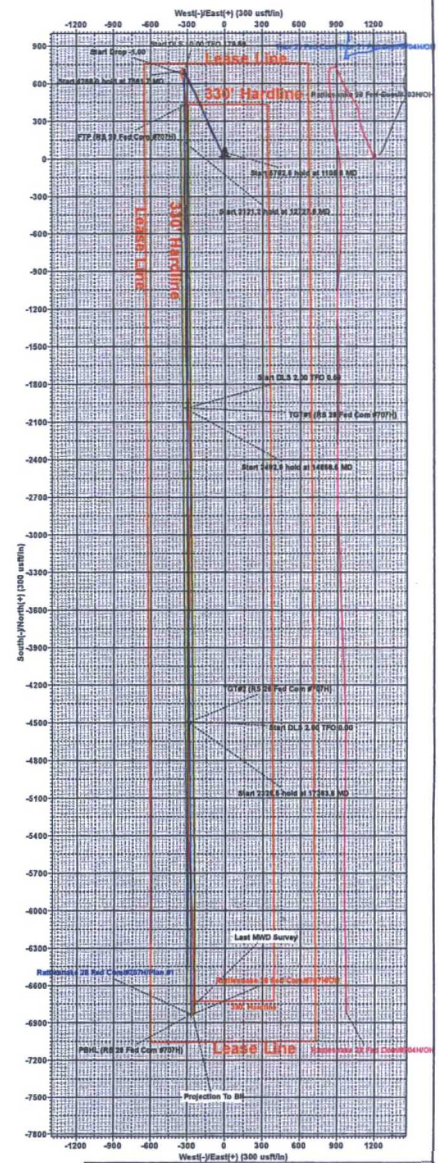
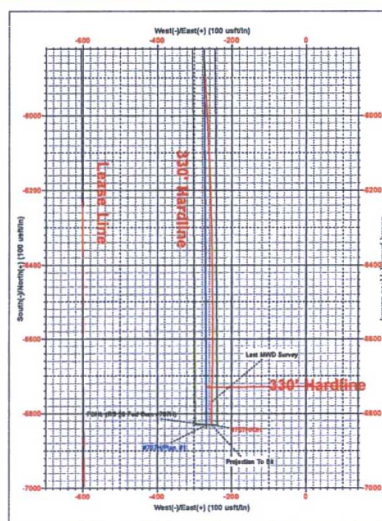
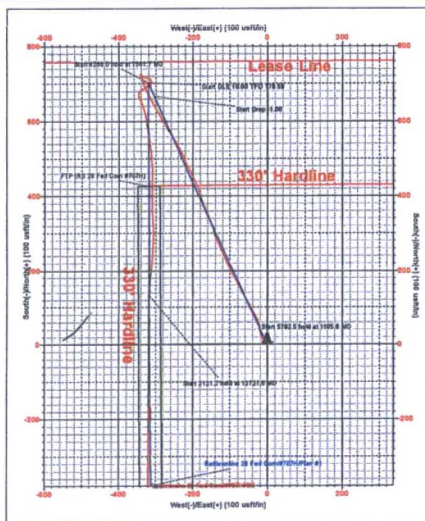
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1105.8	6.63	335.50	1103.3	58.2	-26.5	0.60	335.50	-57.1	
3	6898.3	6.63	335.50	6857.0	667.2	-304.1	0.00	0.00	-654.8	
4	7561.7	0.00	0.00	7519.0	702.1	-320.0	1.00	180.00	-689.1	
5	11829.7	0.00	0.00	11787.0	702.1	-320.0	0.00	0.00	-689.1	
6	12727.6	89.78	179.59	12360.0	131.3	-315.9	10.00	179.59	-118.9	
7	14848.8	89.78	179.59	12368.0	-1989.8	-300.6	0.00	0.00	2000.0	TGT#1 (RS 28 Fed Com #707H)
8	14858.5	89.98	179.59	12368.0	-1999.5	-300.6	2.00	0.59	2009.7	
9	17351.4	89.98	179.59	12369.0	-4492.4	-282.7	0.00	0.00	4500.0	TGT#2 (RS 28 Fed Com #707H)
10	17363.6	90.22	179.59	12369.0	-4504.6	-282.6	2.00	0.00	4512.2	
11	19690.1	90.22	179.59	12360.0	-6831.0	-266.0	0.00	0.00	6836.2	PBHL (RS 28 Fed Com #707H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
TGT#1 (RS 28 Fed Com #707H)	12368.0	-1989.8	-300.6	369866.20	733512.36
TGT#2 (RS 28 Fed Com #707H)	12369.0	-4492.4	-282.7	367163.60	733530.27
PBHL (RS 28 Fed Com #707H)	12360.0	-6831.0	-266.0	354815.00	733547.00
FTP (RS 28 Fed Com #707H)	12360.0	426.0	-318.0	372072.00	733495.00





HOBBS COO
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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Rattlesnake 28 Fed Com

#707H

OH

Design: OH

PVA

13 February, 2017



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Rattlesnake 28 Fed Com
 Well: #707H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25' @ 3268.0usft (H&P 610)
 MD Reference: KB = 25' @ 3268.0usft (H&P 610)
 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) System Datum: Mean Sea Level
 Geo Datum: NAD 1927 (NADCON CONUS)
 Map Zone: New Mexico East 3001

Site: Rattlesnake 28 Fed Com

Site Position: Northing: 371,679.00 usft Latitude: 32° 1' 10.534 N
 From: Map Easting: 735,024.00 usft Longitude: 103° 34' 30.097 W
 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.40 °

Well: #707H

Well Position +N/-S 0.0 usft Northing: 371,646.00 usft Latitude: 32° 1' 10.291 N
 +E/-W 0.0 usft Easting: 733,813.00 usft Longitude: 103° 34' 44.165 W
 Position Uncertainty 0.0 usft Wellhead Elevation: 0.0 usft Ground Level: 3,243.0 usft

Wellbore: OH						
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2015	8/17/2016	7.03	59.88	47,902	

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	182.23

Survey Program Date: 2/13/2017					
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
179.0	19,668.0	OH Surveys (OH)	MWD	MWD - Standard	



EOG Resources, Inc.

PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #707H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25' @ 3268.0usft (H&P 610)
Site:	Rattlesnake 28 Fed Com	MD Reference:	KB = 25' @ 3268.0usft (H&P 610)
Well:	#707H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	
179.0	0.40	151.70	179.0	-0.6	0.3	0.22	0.22	0.00	-2.3	-0.1	
306.0	0.20	228.80	306.0	-1.1	0.3	0.32	-0.16	60.71	-1.9	5.7	
429.0	0.70	206.70	429.0	-1.9	-0.2	0.42	0.41	-17.97	-7.8	8.2	
552.0	1.00	303.90	552.0	-2.0	-1.4	1.05	0.24	79.02	13.5	10.8	
712.0	1.90	329.30	711.9	1.1	-3.9	0.68	0.56	15.87	23.4	5.7	
898.0	2.20	325.50	897.8	6.7	-7.5	0.18	0.16	-2.04	31.8	9.7	
990.0	2.20	321.90	989.7	9.5	-9.6	0.15	0.00	-3.91	36.4	13.7	
1,158.0	2.50	340.40	1,157.6	15.5	-12.8	0.48	0.18	11.01	50.8	0.9	
1,343.0	6.10	348.30	1,342.1	28.9	-16.2	1.97	1.95	4.27	57.5	-10.2	
1,529.0	7.40	345.60	1,526.8	50.2	-21.1	0.72	0.70	-1.45	57.2	-11.7	
1,717.0	8.70	333.20	1,712.9	74.6	-30.6	1.15	0.69	-6.60	54.0	-1.0	
1,903.0	8.90	332.40	1,896.7	100.0	-43.6	0.13	0.11	-0.43	46.9	0.7	
2,091.0	8.50	331.80	2,082.6	125.1	-56.9	0.22	-0.21	-0.32	40.1	2.4	
2,277.0	8.20	330.10	2,266.6	148.7	-70.0	0.21	-0.16	-0.91	34.4	5.2	
2,463.0	8.70	333.50	2,450.6	172.8	-82.9	0.38	0.27	1.83	28.7	4.7	
2,650.0	8.50	334.40	2,635.5	197.9	-95.2	0.13	-0.11	0.48	22.4	4.9	
2,837.0	7.80	334.30	2,820.6	221.8	-106.6	0.37	-0.37	-0.05	17.4	5.4	
3,025.0	7.30	335.40	3,007.0	244.2	-117.1	0.28	-0.27	0.59	14.5	5.3	
3,212.0	7.80	336.10	3,192.3	266.6	-127.2	0.27	0.27	0.37	11.6	5.1	
3,399.0	6.70	336.90	3,377.8	288.2	-136.6	0.59	-0.59	0.43	9.7	4.6	
3,584.0	6.40	347.70	3,561.6	308.2	-143.1	0.68	-0.16	5.84	10.3	0.2	
3,772.0	7.70	340.20	3,748.2	330.3	-149.6	0.85	0.69	-3.99	8.9	-1.6	
3,960.0	7.50	332.80	3,934.6	353.1	-159.4	0.53	-0.11	-3.94	5.9	-1.1	
4,147.0	8.30	337.40	4,119.8	376.4	-170.2	0.54	0.43	2.46	1.7	-1.3	
4,335.0	6.30	348.90	4,306.3	399.0	-177.4	1.31	-1.06	6.12	-1.1	-3.9	
4,522.0	6.10	336.40	4,492.2	418.2	-183.4	0.73	-0.11	-6.68	1.4	-6.6	



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Design: OH

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MD Reference: KB = 25' @ 3268.0usft (H&P 610)
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)	
4,710.0	7.90	335.30	4,678.8	439.1	-192.8	0.96	0.96	-0.59	0.4	-6.7	
4,895.0	6.80	331.30	4,862.3	460.3	-203.3	0.66	-0.59	-2.16	-1.5	-6.0	
5,082.0	6.60	334.60	5,048.0	479.7	-213.3	0.23	-0.11	1.76	-2.0	-4.9	
5,269.0	6.50	338.20	5,233.8	499.2	-221.8	0.23	-0.05	1.93	-2.1	-5.1	
5,456.0	8.40	329.60	5,419.2	520.8	-232.6	1.18	1.02	-4.60	-3.9	-4.7	
5,644.0	7.60	330.40	5,605.3	543.5	-245.7	0.43	-0.43	0.43	-8.6	-2.6	
5,832.0	7.00	328.50	5,791.8	564.0	-257.9	0.34	-0.32	-1.01	-10.8	-0.6	
6,019.0	8.00	327.40	5,977.2	584.7	-270.8	0.54	0.53	-0.59	-13.8	2.0	
6,206.0	7.60	330.20	6,162.5	606.4	-284.0	0.29	-0.21	1.50	-17.6	5.3	
6,392.0	6.70	329.90	6,347.0	626.5	-295.5	0.48	-0.48	-0.16	-19.4	7.2	
6,579.0	6.90	330.70	6,532.7	645.7	-306.5	0.12	0.11	0.43	-19.9	9.5	
6,767.0	7.30	334.50	6,719.3	666.3	-317.2	0.33	0.21	2.02	-20.8	11.9	
6,954.0	6.60	333.60	6,904.9	686.7	-327.1	0.38	-0.37	-0.48	-22.2	12.1	
7,141.0	4.40	345.40	7,091.0	703.3	-333.7	1.32	-1.18	6.31	-20.3	15.6	
7,327.0	3.20	340.90	7,276.6	715.1	-337.2	0.66	-0.65	-2.42	-23.0	12.4	
7,513.0	2.00	320.80	7,462.4	722.5	-340.9	0.80	-0.65	-10.81	-29.3	3.2	
7,701.0	1.30	161.30	7,650.4	723.0	-342.3	1.73	-0.37	-84.84	27.0	-14.4	
7,888.0	0.80	77.40	7,837.4	721.3	-340.3	0.78	-0.27	-44.87	15.7	23.2	
8,075.0	2.20	123.70	8,024.3	719.6	-336.1	0.93	0.75	24.76	23.1	5.6	
8,261.0	2.70	108.70	8,210.2	716.2	-329.0	0.43	0.27	-8.06	13.0	10.5	
8,446.0	2.70	97.20	8,394.9	714.3	-320.5	0.29	0.00	-6.22	2.0	12.0	
8,634.0	2.00	143.30	8,582.8	711.1	-314.2	1.04	-0.37	24.52	3.7	10.1	
8,820.0	2.50	170.30	8,768.7	704.5	-311.5	0.62	0.27	14.52	0.9	8.8	
9,007.0	0.70	221.00	8,955.6	699.6	-311.6	1.14	-0.96	27.11	3.6	8.0	
9,194.0	1.00	252.80	9,142.6	698.2	-313.9	0.29	0.16	17.01	4.7	5.5	
9,381.0	1.80	275.10	9,329.5	698.0	-318.4	0.51	0.43	11.93	2.0	3.9	
9,568.0	0.50	299.00	9,516.5	698.7	-322.0	0.73	-0.70	12.78	-0.1	4.0	



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PVA

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Design: OH

Local Co-ordinate Reference: Well #707H
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
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9,754.0	1.70	283.00	9,702.4	699.7	-325.4	0.66	0.65	-8.60	-4.7	3.6	
9,941.0	0.70	309.10	9,889.4	701.0	-329.0	0.60	-0.53	13.96	-6.3	6.5	
10,126.0	0.10	278.40	10,074.4	701.8	-330.0	0.33	-0.32	-16.59	-9.9	1.8	
10,314.0	1.10	116.20	10,262.4	701.0	-328.6	0.64	0.53	-86.28	7.2	-4.8	
10,500.0	2.60	99.50	10,448.3	699.5	-322.8	0.85	0.81	-8.98	2.4	-3.0	
10,686.0	3.10	132.00	10,634.1	695.5	-314.9	0.90	0.27	17.47	-8.2	-1.5	
10,872.0	1.20	268.70	10,820.0	692.0	-313.1	2.18	-1.02	73.49	6.6	10.2	
11,060.0	1.50	283.00	11,007.9	692.6	-317.5	0.24	0.16	7.61	4.6	8.7	
11,247.0	2.00	242.20	11,194.8	691.6	-322.8	0.70	0.27	-21.82	-7.4	8.0	
11,433.0	2.40	229.40	11,380.7	687.5	-328.6	0.34	0.22	-6.88	-16.0	5.5	
11,619.0	2.90	237.80	11,566.5	682.5	-335.5	0.34	0.27	4.52	-23.6	8.3	
11,813.0	3.10	229.90	11,760.2	676.5	-343.7	0.24	0.10	-4.07	-34.6	4.3	
11,906.0	4.80	194.00	11,853.0	671.1	-346.6	3.14	1.83	-38.60	-32.6	-19.3	
11,953.0	10.20	156.00	11,899.6	665.4	-345.4	15.02	11.49	-80.85	-12.8	-33.3	
11,999.0	14.60	150.90	11,944.6	656.6	-340.9	9.85	9.57	-11.09	-10.0	-29.1	
12,044.0	21.70	159.10	11,987.3	643.8	-335.1	16.73	15.78	18.22	-14.4	-21.4	
12,092.0	28.70	164.90	12,030.7	624.4	-329.0	15.45	14.58	12.08	-18.2	-14.0	
12,138.0	34.60	172.10	12,069.9	600.8	-324.3	15.21	12.83	15.65	-22.3	-7.5	
12,185.0	36.70	172.10	12,108.1	573.6	-320.5	4.47	4.47	0.00	-24.3	-4.0	
12,230.0	40.40	171.80	12,143.2	545.9	-316.6	8.23	8.22	-0.67	-24.8	-0.3	
12,279.0	47.10	172.30	12,178.6	512.3	-311.9	13.69	13.67	1.02	-25.6	4.4	
12,325.0	51.70	178.30	12,208.6	477.6	-309.1	14.07	10.00	13.04	-26.2	8.9	
12,371.0	55.50	181.80	12,235.9	440.6	-309.2	10.28	8.26	7.61	-26.5	9.5	
12,418.0	60.10	180.90	12,260.9	400.8	-310.1	9.92	9.79	-1.91	-26.7	8.0	
12,464.0	65.50	177.00	12,281.9	359.9	-309.3	13.95	11.74	-8.48	-27.0	7.7	
12,511.0	69.70	177.20	12,299.8	316.5	-307.1	8.94	8.94	0.43	-27.1	9.7	
12,557.0	75.40	182.20	12,313.6	272.7	-306.9	16.15	12.39	10.87	-27.0	10.3	



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12,603.0	79.30	184.90	12,323.7	227.9	-309.7	10.23	8.48	5.87	-27.1	7.3
12,652.0	79.70	184.50	12,332.6	179.9	-313.7	1.14	0.82	-0.82	-25.0	2.8
12,698.0	82.50	183.00	12,339.7	134.5	-316.6	6.89	6.09	-3.26	-20.2	-0.7
12,782.0	88.90	179.20	12,346.0	50.9	-318.2	8.85	7.62	-4.52	-14.2	-2.9
12,876.0	89.60	180.00	12,347.3	-43.1	-317.6	1.13	0.74	0.85	-13.3	-2.9
12,969.0	89.80	180.50	12,347.8	-136.1	-318.0	0.58	0.22	0.54	-13.2	-4.0
13,064.0	88.00	180.30	12,349.6	-231.1	-318.6	1.91	-1.89	-0.21	-11.7	-5.4
13,158.0	88.80	181.30	12,352.2	-325.1	-320.0	1.36	0.85	1.06	-9.5	-7.3
13,250.0	88.10	179.10	12,354.7	-417.0	-320.3	2.51	-0.76	-2.39	-7.3	-8.3
13,343.0	89.00	177.80	12,357.1	-510.0	-317.8	1.70	0.97	-1.40	-5.3	-6.5
13,436.0	90.10	177.80	12,357.8	-602.9	-314.2	1.18	1.18	0.00	-5.0	-3.6
13,529.0	90.20	178.00	12,357.5	-695.8	-310.8	0.24	0.11	0.22	-5.6	-0.8
13,622.0	90.50	178.60	12,357.0	-788.8	-308.0	0.72	0.32	0.65	-6.5	1.3
13,716.0	90.10	179.90	12,356.5	-882.8	-306.8	1.45	-0.43	1.38	-7.3	1.8
13,809.0	89.00	181.20	12,357.2	-975.8	-307.7	1.83	-1.18	1.40	-6.9	0.3
13,903.0	89.00	180.00	12,358.8	-1,069.7	-308.7	1.28	0.00	-1.28	-5.7	-1.4
13,995.0	89.50	180.70	12,360.1	-1,161.7	-309.2	0.93	0.54	0.76	-4.8	-2.6
14,089.0	89.30	180.30	12,361.0	-1,255.7	-310.1	0.48	-0.21	-0.43	-4.2	-4.1
14,183.0	89.30	180.00	12,362.2	-1,349.7	-310.3	0.32	0.00	-0.32	-3.4	-5.1
14,277.0	88.70	180.00	12,363.8	-1,443.7	-310.3	0.64	-0.64	0.00	-2.1	-5.7
14,370.0	89.10	178.80	12,365.6	-1,536.7	-309.3	1.36	0.43	-1.29	-0.7	-5.4
14,463.0	90.30	176.90	12,366.1	-1,629.6	-305.8	2.42	1.29	-2.04	-0.5	-2.6
14,557.0	90.70	176.70	12,365.3	-1,723.4	-300.6	0.48	0.43	-0.21	-1.7	2.0
14,651.0	90.80	177.00	12,364.0	-1,817.3	-295.4	0.34	0.11	0.32	-3.3	6.5
14,743.0	89.80	178.50	12,363.6	-1,909.2	-291.8	1.96	-1.09	1.63	-4.1	9.4
14,838.0	88.90	177.90	12,364.6	-2,004.2	-288.8	1.14	-0.95	-0.63	-3.4	11.7
14,931.0	89.30	178.30	12,366.1	-2,097.1	-285.7	0.61	0.43	0.43	-2.0	14.1



EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Rattlesnake 28 Fed Com
 Well: #707H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #707H
 TVD Reference: KB = 25' @ 3268.0usft (H&P 610)
 MD Reference: KB = 25' @ 3268.0usft (H&P 610)
 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)	
15,025.0	89.30	178.30	12,367.3	-2,191.0	-283.0	0.00	0.00	0.00	-0.8	16.2	
15,118.0	89.30	178.70	12,368.4	-2,284.0	-280.5	0.43	0.00	0.43	0.3	18.0	
15,212.0	89.40	178.70	12,369.5	-2,378.0	-278.4	0.11	0.11	0.00	1.3	19.5	
15,304.0	90.40	178.90	12,369.6	-2,470.0	-276.5	1.11	1.09	0.22	1.4	20.7	
15,397.0	90.50	179.10	12,368.9	-2,562.9	-274.8	0.24	0.11	0.22	0.6	21.7	
15,491.0	90.70	179.40	12,367.9	-2,656.9	-273.6	0.38	0.21	0.32	-0.4	22.3	
15,584.0	90.60	180.40	12,366.8	-2,749.9	-273.4	1.08	-0.11	1.08	-1.5	21.8	
15,677.0	90.40	182.30	12,366.0	-2,842.9	-275.6	2.05	-0.22	2.04	-2.3	18.9	
15,770.0	89.30	181.80	12,366.3	-2,935.8	-279.0	1.30	-1.18	-0.54	-2.1	14.9	
15,863.0	89.10	181.70	12,367.6	-3,028.8	-281.8	0.24	-0.22	-0.11	-0.8	11.4	
15,957.0	88.60	181.40	12,369.5	-3,122.7	-284.3	0.62	-0.53	-0.32	1.0	8.2	
16,050.0	89.50	180.30	12,371.0	-3,215.7	-285.7	1.53	0.97	-1.18	2.5	6.1	
16,144.0	90.40	179.70	12,371.1	-3,309.7	-285.7	1.15	0.96	-0.64	2.6	5.5	
16,238.0	89.70	179.30	12,371.0	-3,403.7	-284.9	0.86	-0.74	-0.43	2.4	5.6	
16,331.0	92.90	180.10	12,368.9	-3,496.7	-284.4	3.55	3.44	0.86	0.3	5.4	
16,425.0	92.10	180.60	12,364.8	-3,590.6	-285.0	1.00	-0.85	0.53	-3.9	4.2	
16,512.0	93.10	181.60	12,360.8	-3,677.5	-286.7	1.62	1.15	1.15	-7.8	1.9	
16,606.0	90.90	180.50	12,357.6	-3,771.4	-288.4	2.62	-2.34	-1.17	-11.1	-0.5	
16,700.0	85.60	179.80	12,360.4	-3,865.3	-288.6	5.69	-5.64	-0.74	-8.3	-1.4	
16,794.0	87.00	180.00	12,366.5	-3,959.1	-288.5	1.50	1.49	0.21	-2.3	-1.9	
16,888.0	88.00	179.50	12,370.6	-4,053.0	-288.1	1.19	1.06	-0.53	1.8	-2.2	
16,981.0	90.00	179.50	12,372.2	-4,146.0	-287.2	2.15	2.15	0.00	3.4	-2.0	
17,074.0	91.80	180.40	12,370.8	-4,239.0	-287.2	2.16	1.94	0.97	1.9	-2.6	
17,168.0	91.60	180.00	12,368.0	-4,332.9	-287.5	0.48	-0.21	-0.43	-1.0	-3.6	
17,262.0	90.90	180.00	12,365.9	-4,426.9	-287.5	0.74	-0.74	0.00	-3.0	-4.3	
17,354.0	90.10	180.30	12,365.1	-4,518.9	-287.7	0.93	-0.87	0.33	-3.8	-5.2	
17,447.0	90.80	180.80	12,364.4	-4,611.9	-288.6	0.92	0.75	0.54	-4.2	-6.7	



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PVA

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Design: OH

Local Co-ordinate Reference: Well #707H
TVD Reference: KB = 25' @ 3268.0usft (H&P 610)
MD Reference: KB = 25' @ 3268.0usft (H&P 610)
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)	
17,542.0	91.40	180.90	12,362.6	-4,706.9	-290.0	0.64	0.63	0.11	-5.6	-8.8	
17,635.0	90.40	180.90	12,361.1	-4,799.8	-291.5	1.08	-1.08	0.00	-6.7	-11.0	
17,729.0	91.70	180.90	12,359.4	-4,893.8	-293.0	1.38	1.38	0.00	-8.1	-13.1	
17,823.0	86.60	180.10	12,360.8	-4,987.8	-293.8	5.49	-5.43	-0.85	-6.3	-14.6	
17,917.0	87.90	180.10	12,365.3	-5,081.6	-294.0	1.38	1.38	0.00	-1.5	-15.4	
18,010.0	89.50	180.50	12,367.4	-5,174.6	-294.4	1.77	1.72	0.43	1.0	-16.6	
18,103.0	91.10	179.90	12,366.9	-5,267.6	-294.8	1.84	1.72	-0.65	0.9	-17.6	
18,198.0	90.20	178.60	12,365.8	-5,362.6	-293.5	1.66	-0.95	-1.37	0.2	-17.0	
18,292.0	91.30	177.20	12,364.6	-5,456.5	-290.1	1.89	1.17	-1.49	-0.7	-14.2	
18,387.0	91.10	177.10	12,362.6	-5,551.4	-285.4	0.24	-0.21	-0.11	-2.3	-10.2	
18,481.0	90.50	177.30	12,361.3	-5,645.3	-280.8	0.67	-0.64	0.21	-3.3	-6.3	
18,576.0	90.20	177.20	12,360.7	-5,740.1	-276.2	0.33	-0.32	-0.11	-3.5	-2.4	
18,669.0	90.00	178.40	12,360.6	-5,833.1	-272.6	1.31	-0.22	1.29	-3.3	0.5	
18,762.0	91.60	177.00	12,359.3	-5,926.0	-268.9	2.29	1.72	-1.51	-4.2	3.6	
18,857.0	91.20	176.40	12,356.9	-6,020.8	-263.4	0.76	-0.42	-0.63	-6.2	8.4	
18,952.0	92.40	177.80	12,354.0	-6,115.6	-258.6	1.94	1.26	1.47	-8.8	12.5	
19,046.0	93.10	178.20	12,349.4	-6,209.5	-255.4	0.86	0.74	0.43	-12.9	15.1	
19,140.0	92.40	178.50	12,344.9	-6,303.3	-252.7	0.81	-0.74	0.32	-17.1	17.1	
19,234.0	89.80	179.90	12,343.1	-6,397.3	-251.3	3.14	-2.77	1.49	-18.5	17.8	
19,325.0	90.50	179.20	12,342.9	-6,488.3	-250.6	1.09	0.77	-0.77	-18.4	17.8	
19,419.0	90.10	180.20	12,342.4	-6,582.3	-250.1	1.15	-0.43	1.06	-18.6	17.6	
19,512.0	90.10	180.50	12,342.2	-6,675.3	-250.7	0.32	0.00	0.32	-18.4	16.4	
19,606.0	90.60	181.10	12,341.7	-6,769.3	-252.0	0.83	0.53	0.64	-18.6	14.4	
Last MWD Survey											
19,668.0	90.60	181.10	12,341.0	-6,831.2	-253.2	0.00	0.00	0.00	-19.0	12.8	
Projection To Bit											



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

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
19,606.0	12,341.7	-6,769.3	-252.0	Last MWD Survey
19,668.0	12,341.0	-6,831.2	-253.2	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____