



Lea County, NM (NAD 27 NME)

Almost Eddy 31 Fed #1H

Precision 612

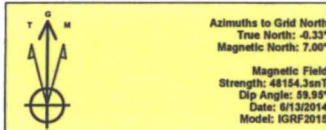
Plan #3

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1886
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level

WELL DETAILS: #1H

Ground Level: 3281.0
 KB = 25' @ 3306.0usft (Precision 612)
 Northing 393414.00 Easting 694106.00 Latitude 32° 4' 48.219 N Longitude 103° 42' 23.884 W



To convert a Magnetic Direction to a Grid Direction, Add 7.00°
 To convert a Magnetic Direction to a True Direction, Add 7.33° East
 To convert a True Direction to a Grid Direction, Subtract 0.33°

SECTION DETAILS

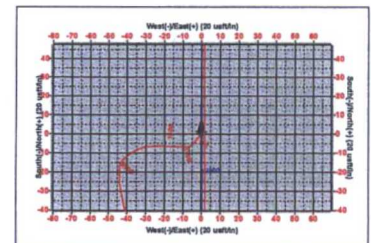
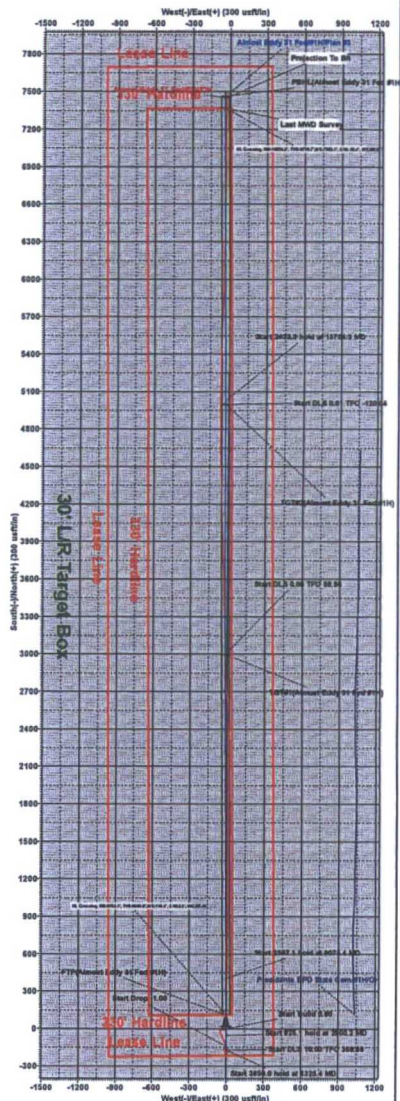
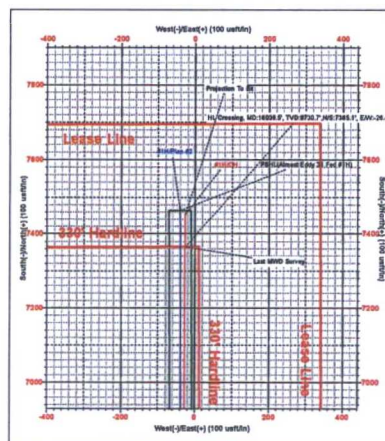
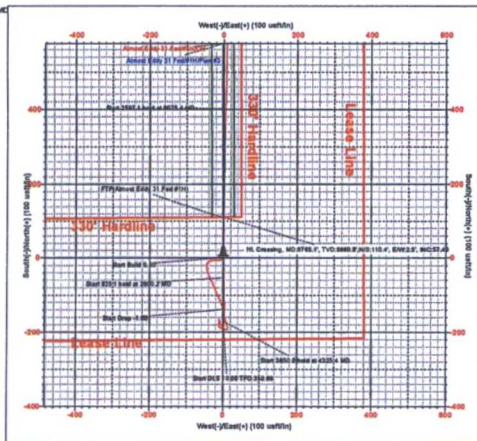
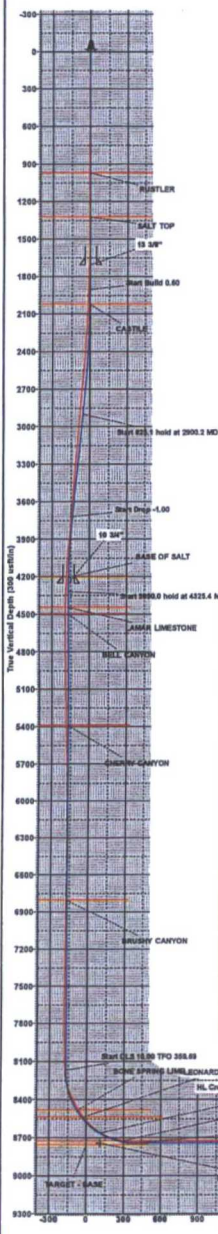
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1900.0	0.00	0.00	1900.0	0.0	0.0	0.00	0.00	0.0	
3	2900.2	6.00	179.66	2898.4	-52.3	0.3	0.00	179.66	-52.3	
4	3725.3	6.00	179.66	3719.0	-138.6	0.8	0.00	0.00	-138.6	
5	4325.4	0.00	0.00	4318.0	-170.0	1.0	1.00	180.00	-170.0	
6	8175.4	0.00	0.00	8168.0	-170.0	1.0	0.00	0.00	-170.0	
7	9075.4	90.00	359.69	8741.0	402.9	-2.1	10.00	359.69	402.9	
8	11672.5	90.00	359.69	8741.0	3000.0	-16.1	0.00	0.00	3000.0	TGT#1(Almost Eddy 31 Fed #1H)
9	13672.5	90.00	359.69	8741.0	4999.9	-26.8	0.00	59.96	5000.0	TGT#2(Almost Eddy 31 Fed #1H)
10	13704.3	90.00	359.69	8741.0	5031.7	-27.0	0.01	-120.04	5031.8	
11	16137.6	90.00	359.69	8741.0	7465.0	-40.0	0.00	0.00	7465.1	PBHL(Almost Eddy 31 Fed #1H)

CASING DETAILS

TVD	MD	Name	Size
1705.0	1705.0	13 3/8"	13-3/8
4250.0	4257.4	10 3/4"	10-3/4
8741.0	16137.6	5 1/2"	5-1/2

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
FTP(Almost Eddy 31 Fed #1H)	8741.0	110.0	0.0	393524.00	694106.00
PBHL(Almost Eddy 31 Fed #1H)	8741.0	7465.0	-40.0	400879.00	694066.00
TGT#1(Almost Eddy 31 Fed #1H)	8741.0	3000.0	-16.1	396414.00	694059.92
TGT#2(Almost Eddy 31 Fed #1H)	8741.0	4999.9	-26.8	396412.90	694079.21





HOBBS OCD

OCT 1 0 2017

RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Almost Eddy 31 Fed

#1H

OH

Design: OH

EOG PVA

02 October, 2015



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25' @ 3306.0usft (Precision 612)
Site:	Almost Eddy 31 Fed	MD Reference:	KB = 25' @ 3306.0usft (Precision 612)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	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	Almost Eddy 31 Fed		
Site Position:		Northing:	393,414.00 usft
From:	Map	Easting:	694,106.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 48.219 N
		Longitude:	103° 42' 23.884 W
		Grid Convergence:	0.33 °

Well	#1H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty		0.0 usft	Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	6/13/2014	7.33
			Dip Angle (°)
			59.95
			Field Strength (nT)
			48,154

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)
	0.0	0.0	0.0
			Direction (°)
			359.69



EOG Resources, Inc.
EOG PVA

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Project: Lea County, NM (NAD 27 NME)
Site: Almost Eddy 31 Fed
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 25' @ 3306.0usft (Precision 612)
MD Reference: KB = 25' @ 3306.0usft (Precision 612)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey Program Date 10/2/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
87.7	1,333.0	VES Gyro #1 (OH)	NSG-CT_WL	Continuous north-seeking gyro on wireline
1,529.0	16,126.0	PDI MWD #1 (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
87.7	0.28	221.37	87.7	-0.2	-0.1	0.32	0.32	0.00	-0.2	0.0
181.3	0.21	229.74	181.3	-0.4	-0.4	0.08	-0.07	8.94	-0.6	0.1
275.0	0.06	223.22	275.0	-0.6	-0.6	0.16	-0.16	-6.96	-0.8	0.0
368.6	0.05	216.27	368.6	-0.7	-0.6	0.01	-0.01	-7.42	-0.9	-0.1
462.2	0.39	220.00	462.2	-0.9	-0.9	0.36	0.36	3.98	-1.3	-0.1
555.9	0.70	214.77	555.9	-1.6	-1.4	0.33	0.33	-5.59	-2.2	-0.2
649.5	0.87	218.06	649.5	-2.7	-2.2	0.19	0.18	3.51	-3.4	-0.1
743.2	1.03	217.89	743.1	-3.9	-3.1	0.17	0.17	-0.18	-5.0	-0.1
836.8	0.97	223.23	836.8	-5.1	-4.2	0.12	-0.06	5.70	-6.6	0.5
930.4	0.96	235.06	930.4	-6.2	-5.4	0.21	-0.01	12.63	-7.9	2.0
1,024.1	1.12	259.07	1,024.0	-6.8	-6.9	0.49	0.17	25.64	-8.1	5.4
1,117.7	1.25	268.43	1,117.6	-7.0	-8.8	0.25	0.14	10.00	-9.0	6.8
1,211.4	1.36	271.15	1,211.2	-7.0	-11.0	0.13	0.12	2.90	-10.8	7.2
1,305.0	1.48	272.81	1,304.9	-6.9	-13.3	0.14	0.13	1.77	-12.9	7.6
1,333.0	1.50	270.19	1,332.8	-6.9	-14.0	0.25	0.07	-9.36	-14.0	6.9
1,529.0	2.80	275.10	1,528.7	-6.5	-21.3	0.67	0.66	2.51	-20.7	8.3
1,714.0	2.90	257.90	1,713.5	-7.0	-30.4	0.46	0.05	-9.30	-31.2	0.5
1,898.0	3.10	232.90	1,897.2	-11.0	-38.9	0.71	0.11	-13.59	-37.7	-14.7
2,083.0	1.70	202.00	2,082.1	-16.6	-44.0	1.00	-0.76	-16.70	-30.2	-35.2
2,268.0	3.90	169.80	2,266.9	-25.3	-43.9	1.42	1.19	-17.41	-10.2	-46.5



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	KB = 25' @ 3306.0usft (Precision 612)
Site:	Almost Eddy 31 Fed	MD Reference:	KB = 25' @ 3306.0usft (Precision 612)
Well:	#1H	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)	
2,453.0	3.90	168.90	2,451.4	-37.7	-41.5	0.03	0.00	-0.49	-13.3	-45.0	
2,638.0	6.20	151.50	2,635.7	-52.6	-35.6	1.48	1.24	-9.41	-4.3	-42.9	
2,822.0	5.90	158.20	2,818.7	-70.2	-27.3	0.42	-0.16	3.64	-13.7	-35.1	
3,007.0	5.10	156.60	3,002.8	-86.5	-20.5	0.44	-0.43	-0.86	-13.0	-28.3	
3,192.0	5.20	154.30	3,187.1	-101.6	-13.6	0.12	0.05	-1.24	-10.9	-20.9	
3,377.0	4.60	152.90	3,371.4	-115.8	-6.6	0.33	-0.32	-0.76	-8.9	-12.6	
3,561.0	6.10	170.20	3,554.6	-132.0	-1.6	1.19	0.82	9.40	-10.1	-4.1	
3,746.0	4.00	164.20	3,738.9	-147.9	1.9	1.17	-1.14	-3.24	-7.2	-1.0	
3,931.0	5.30	164.90	3,923.3	-162.4	5.8	0.70	0.70	0.38	-7.0	3.2	
4,115.0	4.60	160.70	4,106.6	-177.5	10.5	0.43	-0.38	-2.28	-13.9	5.2	
4,281.0	2.00	172.40	4,272.3	-186.7	13.1	1.61	-1.57	7.05	-18.3	9.7	
4,339.0	1.81	178.73	4,330.3	-188.6	13.2	0.49	-0.32	10.91	-18.9	11.8	
9 5/8" Production Casing											
4,470.0	1.50	198.10	4,461.2	-192.3	12.7	0.49	-0.24	14.79	-17.5	18.1	
4,656.0	1.70	292.20	4,647.2	-193.6	9.4	1.26	0.11	50.59	16.7	18.6	
4,840.0	1.90	287.10	4,831.1	-191.6	4.0	0.14	0.11	-2.77	9.2	19.8	
5,025.0	1.90	292.50	5,016.0	-189.6	-1.8	0.10	0.00	2.92	4.9	19.1	
5,210.0	2.00	296.70	5,200.9	-186.9	-7.5	0.09	0.05	2.27	0.0	19.0	
5,394.0	1.80	342.40	5,384.8	-182.7	-11.2	0.81	-0.11	24.84	8.4	15.5	
5,579.0	1.30	12.30	5,569.7	-177.9	-11.7	0.50	-0.27	16.16	10.4	10.7	
5,764.0	1.30	24.80	5,754.7	-174.0	-10.3	0.15	0.00	6.76	8.4	8.6	
5,949.0	1.30	343.10	5,939.6	-170.1	-10.1	0.50	0.00	-22.54	-3.2	10.6	
6,133.0	0.90	352.40	6,123.6	-166.6	-10.9	0.24	-0.22	5.05	-4.9	11.3	
6,318.0	0.20	63.80	6,308.6	-165.0	-10.8	0.46	-0.38	38.59	8.4	9.6	
6,503.0	1.10	148.90	6,493.6	-166.4	-9.6	0.60	0.49	46.00	8.5	-7.2	
6,687.0	1.40	154.70	6,677.5	-170.0	-7.7	0.18	0.16	3.15	3.7	-7.8	
6,872.0	0.90	194.80	6,862.5	-173.4	-7.1	0.50	-0.27	21.68	-5.4	-7.0	



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Almost Eddy 31 Fed
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 25' @ 3306.0usft (Precision 612)
MD Reference: KB = 25' @ 3306.0usft (Precision 612)
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)	
7,057.0	0.90	182.10	7,047.5	-176.3	-7.5	0.11	0.00	-6.86	-6.6	-8.3	
7,242.0	1.10	122.30	7,232.4	-178.7	-6.1	0.55	0.11	-32.32	1.3	-11.1	
7,426.0	1.50	141.50	7,416.4	-181.5	-3.1	0.32	0.22	10.43	-6.5	-10.4	
7,611.0	0.40	137.10	7,601.4	-183.9	-1.1	0.60	-0.59	-2.38	-8.7	-11.0	
7,796.0	0.40	96.20	7,786.4	-184.4	-0.1	0.15	0.00	-22.11	-0.5	-14.4	
7,980.0	1.70	17.10	7,970.3	-181.9	1.4	0.91	0.71	-42.99	11.2	-3.9	
8,104.0	1.10	17.10	8,094.3	-179.0	2.3	0.48	-0.48	0.00	8.2	-3.9	
8,204.0	5.50	3.30	8,194.1	-173.3	2.8	4.44	4.40	-13.80	3.7	-2.1	
8,250.0	10.50	3.90	8,239.6	-166.9	3.2	10.87	10.87	1.30	1.2	-2.4	
8,297.0	16.70	3.00	8,285.3	-155.9	3.9	13.20	13.19	-1.91	-2.1	-2.9	
8,342.0	22.80	1.40	8,327.6	-140.7	4.4	13.61	13.56	-3.56	-6.5	-3.4	
8,389.0	25.90	359.30	8,370.4	-121.3	4.5	6.85	6.60	-4.47	-10.9	-3.9	
8,434.0	27.90	358.60	8,410.6	-100.9	4.2	4.50	4.44	-1.56	-13.6	-3.8	
8,481.0	30.80	357.00	8,451.5	-77.9	3.3	6.39	6.17	-3.40	-14.6	-3.4	
8,527.0	33.40	358.60	8,490.5	-53.5	2.3	5.95	5.65	3.48	-14.0	-2.2	
8,574.0	37.30	359.30	8,528.8	-26.3	1.9	8.34	8.30	1.49	-12.2	-1.7	
8,619.0	39.90	359.50	8,564.0	1.8	1.6	5.78	5.78	0.44	-9.2	-1.5	
8,666.0	45.20	0.40	8,598.6	33.5	1.5	11.35	11.28	1.91	-5.6	-1.6	
8,712.0	50.30	0.90	8,629.5	67.6	1.9	11.12	11.09	1.09	-2.5	-2.2	
8,759.0	56.60	0.70	8,657.5	105.3	2.5	13.41	13.40	-0.43	-0.1	-2.9	
8,765.1	57.40	0.70	8,660.8	110.4	2.5	13.11	13.11	0.00	0.1	-3.0	
HL Crossing, MD:8765.1', TVD:8660.8', N/S:110.4', E/W:2.5', INC:57.40											
8,804.0	62.50	0.70	8,680.3	144.1	2.9	13.11	13.11	0.00	1.0	-3.6	
8,851.0	70.00	0.50	8,699.2	187.1	3.4	15.96	15.96	-0.43	0.4	-4.3	
8,897.0	76.70	0.20	8,712.4	231.1	3.6	14.58	14.57	-0.65	-2.1	-4.8	
8,944.0	79.10	0.70	8,722.2	277.0	4.0	5.21	5.11	1.06	-4.6	-5.4	
8,989.0	83.00	1.10	8,729.2	321.5	4.7	8.71	8.67	0.89	-5.9	-6.3	



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EOG PVA

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Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
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9,036.0	89.60	1.40	8,732.3	368.4	5.7	14.06	14.04	0.64	-7.6	-7.6	
9,082.0	92.90	1.80	8,731.3	414.3	7.0	7.23	7.17	0.87	-9.7	-9.2	
9,174.0	91.30	0.20	8,727.9	506.2	8.6	2.46	-1.74	-1.74	-13.1	-11.3	
9,294.0	89.30	1.10	8,727.3	626.2	10.0	1.83	-1.67	0.75	-13.7	-13.3	
9,386.0	90.50	1.10	8,727.4	718.2	11.7	1.30	1.30	0.00	-13.5	-15.5	
9,478.0	89.10	0.50	8,727.7	810.2	13.0	1.66	-1.52	-0.65	-13.2	-17.3	
9,571.0	88.80	0.70	8,729.5	903.2	14.0	0.39	-0.32	0.22	-11.5	-18.8	
9,663.0	89.60	1.40	8,730.7	995.1	15.7	1.16	0.87	0.76	-10.2	-21.0	
9,755.0	90.00	0.20	8,731.1	1,087.1	17.0	1.37	0.43	-1.30	-9.9	-22.7	
9,848.0	89.70	359.30	8,731.3	1,180.1	16.6	1.02	-0.32	-0.97	-9.7	-22.8	
9,940.0	90.40	359.10	8,731.2	1,272.1	15.3	0.79	0.76	-0.22	-9.8	-22.1	
10,032.0	92.70	0.90	8,728.7	1,364.1	15.3	3.17	2.50	1.96	-12.2	-22.6	
10,124.0	91.50	0.40	8,725.4	1,456.0	16.3	1.41	-1.30	-0.54	-15.6	-24.1	
10,217.0	89.70	359.30	8,724.4	1,549.0	16.1	2.27	-1.94	-1.18	-16.6	-24.3	
10,310.0	89.10	359.70	8,725.4	1,642.0	15.3	0.78	-0.65	0.43	-15.6	-24.0	
10,402.0	88.10	359.50	8,727.6	1,734.0	14.6	1.11	-1.09	-0.22	-13.4	-23.9	
10,494.0	88.10	359.30	8,730.7	1,825.9	13.7	0.22	0.00	-0.22	-10.3	-23.4	
10,587.0	88.20	359.80	8,733.7	1,918.8	12.9	0.55	0.11	0.54	-7.3	-23.2	
10,679.0	89.00	0.50	8,735.9	2,010.8	13.2	1.16	0.87	0.76	-5.1	-23.9	
10,772.0	89.70	359.80	8,737.0	2,103.8	13.4	1.06	0.75	-0.75	-4.0	-24.7	
10,864.0	92.10	0.20	8,735.5	2,195.8	13.4	2.64	2.61	0.43	-5.5	-25.2	
10,956.0	91.50	0.20	8,732.6	2,287.7	13.7	0.65	-0.65	0.00	-8.4	-26.0	
11,049.0	91.50	359.10	8,730.2	2,380.7	13.2	1.18	0.00	-1.18	-10.8	-25.9	
11,141.0	89.40	357.90	8,729.5	2,472.7	10.8	2.63	-2.28	-1.30	-11.5	-24.0	
11,233.0	88.40	356.30	8,731.2	2,564.5	6.1	2.05	-1.09	-1.74	-9.7	-19.9	
11,326.0	88.50	356.50	8,733.8	2,657.3	0.3	0.24	0.11	0.22	-7.2	-14.5	
11,418.0	90.00	357.90	8,735.0	2,749.2	-4.2	2.23	1.63	1.52	-6.0	-10.5	



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Almost Eddy 31 Fed
Well: #1H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #1H
TVD Reference: KB = 25' @ 3306.0usft (Precision 612)
MD Reference: KB = 25' @ 3306.0usft (Precision 612)
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)	
11,510.0	90.30	357.40	8,734.7	2,841.1	-8.0	0.63	0.33	-0.54	-6.3	-7.2	
11,602.0	91.00	358.90	8,733.7	2,933.1	-11.0	1.80	0.76	1.63	-7.3	-4.8	
11,695.0	87.80	358.40	8,734.6	3,026.0	-13.2	3.48	-3.44	-0.54	-6.4	-3.1	
11,787.0	88.10	358.60	8,737.9	3,117.9	-15.6	0.39	0.33	0.22	-3.1	-1.2	
11,879.0	89.70	358.60	8,739.7	3,209.9	-17.8	1.74	1.74	0.00	-1.3	0.6	
11,972.0	89.80	358.60	8,740.1	3,302.8	-20.1	0.11	0.11	0.00	-0.9	2.4	
12,064.0	89.50	358.20	8,740.7	3,394.8	-22.6	0.54	-0.33	-0.43	-0.3	4.4	
12,156.0	90.70	358.90	8,740.5	3,486.8	-25.0	1.51	1.30	0.76	-0.5	6.3	
12,248.0	90.80	357.90	8,739.3	3,578.7	-27.5	1.09	0.11	-1.09	-1.7	8.4	
12,341.0	90.30	358.10	8,738.4	3,671.7	-30.8	0.58	-0.54	0.22	-2.6	11.1	
12,433.0	88.20	357.50	8,739.6	3,763.6	-34.3	2.37	-2.28	-0.65	-1.4	14.1	
12,526.0	88.90	358.20	8,742.0	3,856.5	-37.8	1.06	0.75	0.75	1.0	17.1	
12,618.0	90.50	357.70	8,742.5	3,948.4	-41.1	1.82	1.74	-0.54	1.5	19.9	
12,711.0	91.10	357.90	8,741.2	4,041.3	-44.7	0.68	0.65	0.22	0.2	23.0	
12,803.0	92.80	358.20	8,738.0	4,133.2	-47.8	1.88	1.85	0.33	-2.9	25.6	
12,896.0	92.00	358.80	8,734.1	4,226.1	-50.2	1.07	-0.86	0.65	-6.9	27.6	
12,989.0	91.30	359.10	8,731.5	4,319.1	-51.9	0.82	-0.75	0.32	-9.5	28.8	
13,081.0	88.70	357.00	8,731.5	4,411.0	-55.1	3.63	-2.83	-2.28	-9.6	31.4	
13,173.0	88.40	358.40	8,733.8	4,502.9	-58.8	1.56	-0.33	1.52	-7.2	34.6	
13,266.0	88.50	357.50	8,736.3	4,595.8	-62.1	0.97	0.11	-0.97	-4.7	37.4	
13,358.0	91.20	358.20	8,736.5	4,687.7	-65.5	3.03	2.93	0.76	-4.4	40.4	
13,451.0	91.80	1.10	8,734.1	4,780.7	-66.1	3.18	0.65	3.12	-6.9	40.5	
13,543.0	92.40	359.30	8,730.7	4,872.6	-65.8	2.06	0.65	-1.96	-10.3	39.7	
13,635.0	89.10	358.60	8,729.5	4,964.6	-67.5	3.67	-3.59	-0.76	-11.5	40.9	
13,728.0	89.20	1.20	8,730.9	5,057.6	-67.6	2.80	0.11	2.80	-10.1	40.5	
13,820.0	91.30	1.90	8,730.5	5,149.5	-65.1	2.41	2.28	0.76	-10.5	37.5	
13,912.0	91.60	0.90	8,728.2	5,241.5	-62.9	1.13	0.33	-1.09	-12.8	34.8	



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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)	
14,004.0	90.70	0.00	8,726.3	5,333.4	-62.2	1.38	-0.98	-0.98	-14.7	33.6	
14,097.0	90.00	1.40	8,725.8	5,426.4	-61.0	1.68	-0.75	1.51	-15.2	31.9	
14,189.0	90.60	2.10	8,725.3	5,518.4	-58.2	1.00	0.65	0.76	-15.7	28.6	
14,282.0	91.90	2.50	8,723.3	5,611.3	-54.5	1.46	1.40	0.43	-17.8	24.4	
14,374.0	91.20	3.20	8,720.8	5,703.1	-49.9	1.08	-0.76	0.76	-20.3	19.3	
14,467.0	90.60	1.40	8,719.3	5,796.0	-46.2	2.04	-0.65	-1.94	-21.7	15.1	
14,559.0	89.90	1.60	8,718.9	5,888.0	-43.8	0.79	-0.76	0.22	-22.1	12.2	
14,652.0	88.70	1.40	8,720.0	5,981.0	-41.3	1.31	-1.29	-0.22	-21.0	9.3	
14,744.0	90.20	0.70	8,720.9	6,072.9	-39.7	1.80	1.63	-0.76	-20.1	7.1	
14,836.0	91.30	0.40	8,719.7	6,164.9	-38.8	1.24	1.20	-0.33	-21.3	5.7	
14,929.0	90.80	0.70	8,718.0	6,257.9	-37.9	0.63	-0.54	0.32	-23.0	4.3	
15,022.0	90.40	1.40	8,717.0	6,350.9	-36.2	0.87	-0.43	0.75	-24.0	2.1	
15,114.0	90.60	0.40	8,716.2	6,442.9	-34.7	1.11	0.22	-1.09	-24.8	0.2	
15,206.0	89.30	0.90	8,716.3	6,534.9	-33.7	1.51	-1.41	0.54	-24.7	-1.3	
15,299.0	90.00	1.80	8,716.9	6,627.8	-31.5	1.23	0.75	0.97	-24.1	-4.0	
15,391.0	90.50	1.40	8,716.5	6,719.8	-28.9	0.70	0.54	-0.43	-24.5	-7.1	
15,483.0	88.10	0.20	8,717.6	6,811.8	-27.6	2.92	-2.61	-1.30	-23.4	-8.9	
15,576.0	88.40	0.20	8,720.4	6,904.7	-27.3	0.32	0.32	0.00	-20.6	-9.7	
15,668.0	89.40	0.20	8,722.2	6,996.7	-27.0	1.09	1.09	0.00	-18.8	-10.5	
15,760.0	89.20	359.80	8,723.3	7,088.7	-27.0	0.49	-0.22	-0.43	-17.7	-11.0	
15,853.0	88.00	359.50	8,725.6	7,181.7	-27.6	1.33	-1.29	-0.32	-15.4	-10.9	
15,945.0	88.20	0.70	8,728.7	7,273.6	-27.4	1.32	0.22	1.30	-12.3	-11.6	
16,036.5	89.19	0.50	8,730.7	7,365.1	-26.4	1.11	1.09	-0.22	-10.3	-13.0	
HL Crossing, MD:16036.5', TVD:8730.7', N/S:7365.1', E/W:-26.4', INC:89.19											
16,037.0	89.20	0.50	8,730.7	7,365.6	-26.4	1.11	1.09	-0.22	-10.3	-13.0	
Last MWD Survey											



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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)
16,049.0	89.20	0.50	8,730.9	7,377.6	-26.3	0.00	0.00	0.00	-10.1	-13.2
5 1/2" Intermediate Casing										
16,126.0	89.20	0.50	8,732.0	7,454.6	-25.7	0.00	0.00	0.00	-9.0	-14.3
Projection To Bit										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
4,339.0	4,330.3	9 5/8" Production Casing	9-5/8	12-1/4	
16,049.0	8,730.9	5 1/2" Intermediate Casing	5-1/2	8-3/4	

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,765.1	8,660.8	110.4	2.5	HL Crossing, MD:8765.1', TVD:8660.8',N/S:110.4', E/W:2.5', INC:57.40
16,036.5	8,730.7	7,365.1	-26.4	HL Crossing, MD:16036.5', TVD:8730.7',N/S:7365.1', E/W:-26.4', INC:89.19
16,037.0	8,730.7	7,365.6	-26.4	Last MWD Survey
16,126.0	8,732.0	7,454.6	-25.7	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____