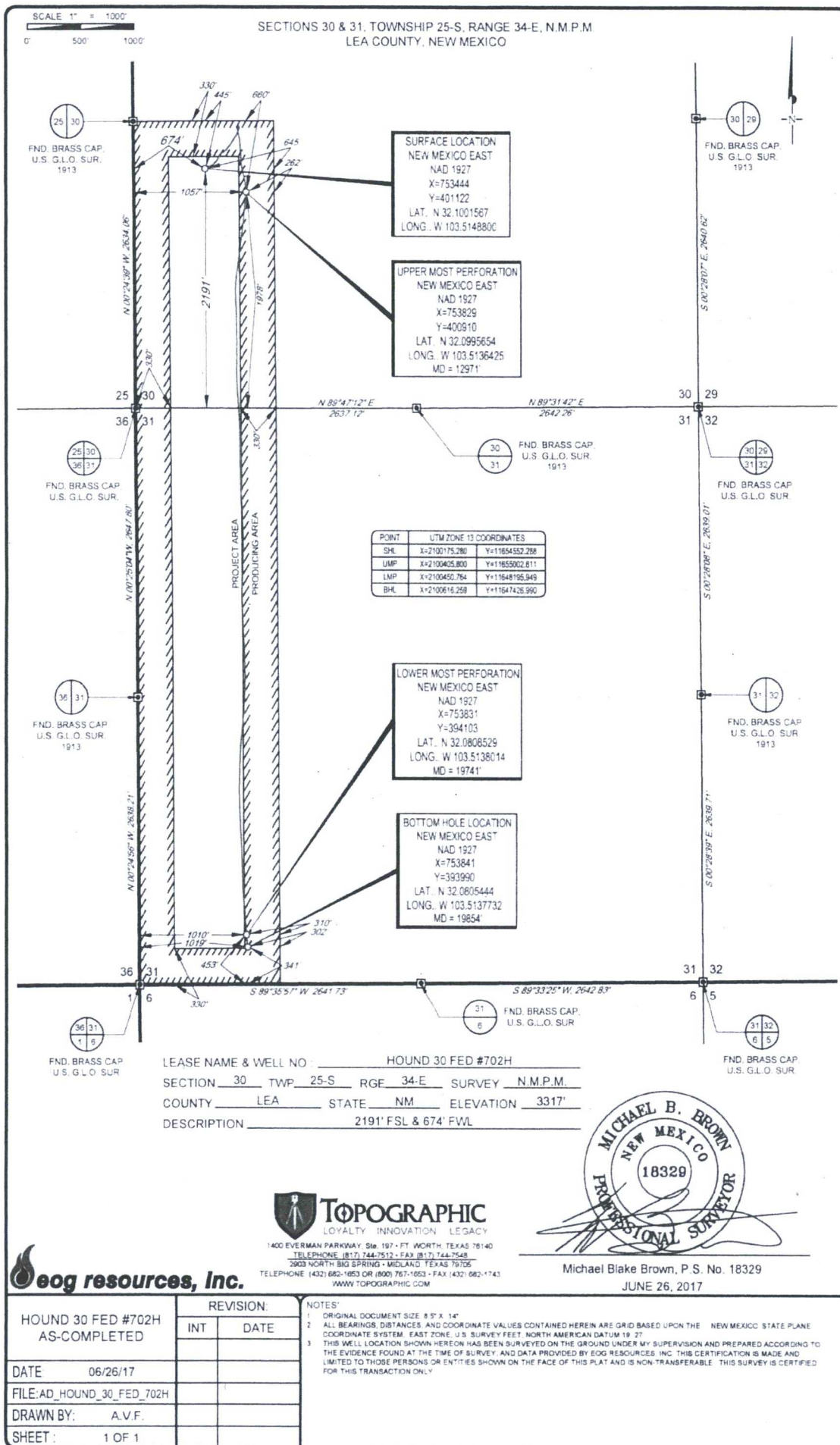




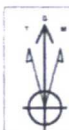


Lea County, NM (NAD 27 NME)

Hound 30 Fed #702H

H&P 642

Plan #3



Azimuths to Grid North
True North: -6.43°
Magnetic North: 6.50°

Magnetic Field
Strength: 47889.8 nT
Dip Angle: 89.98°
Date: 4/12/2017
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 6.50°
To convert a Grid Direction to a Magnetic Direction, Subtract 6.50°

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: #702H

Ground Level: 3317.0
KB + 25' @ 3542.0' (H&P 642)
Northing: 401122.00 Easting: 753444.00 Longitude: 32° 6' 0.562 N 103° 30' 53.566 W

SECTION DETAILS

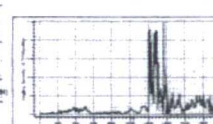
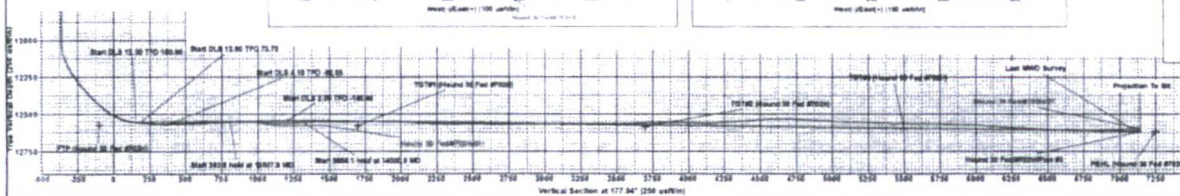
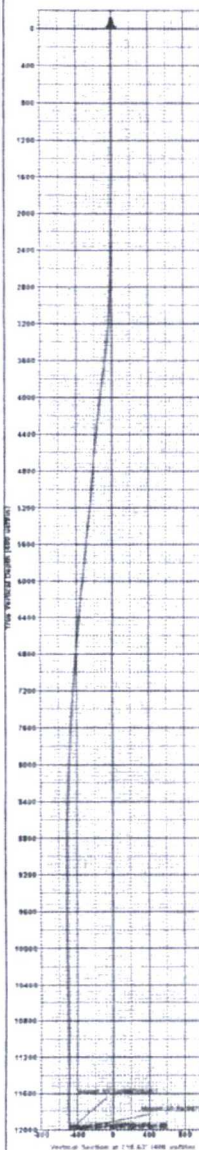
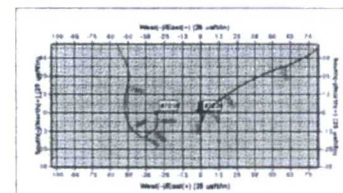
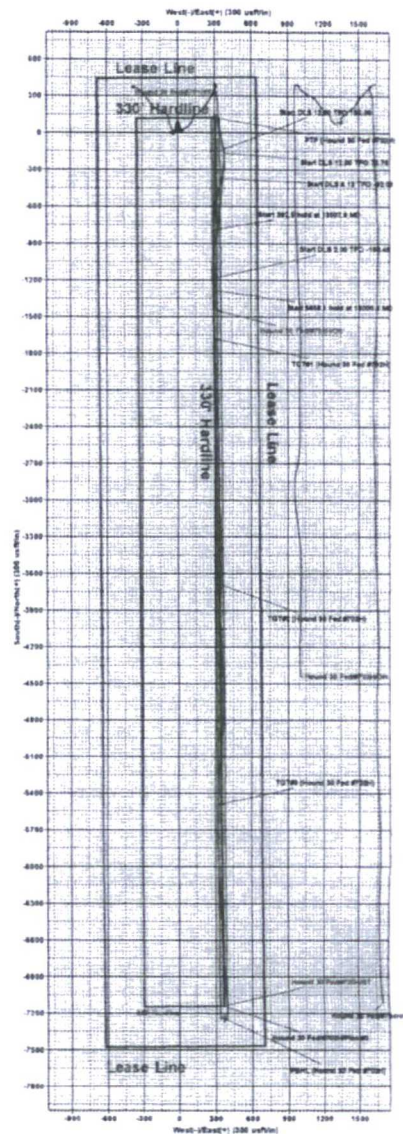
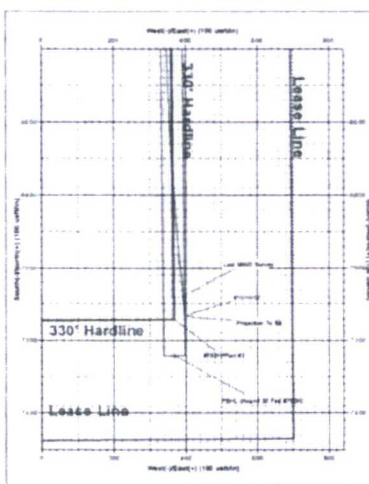
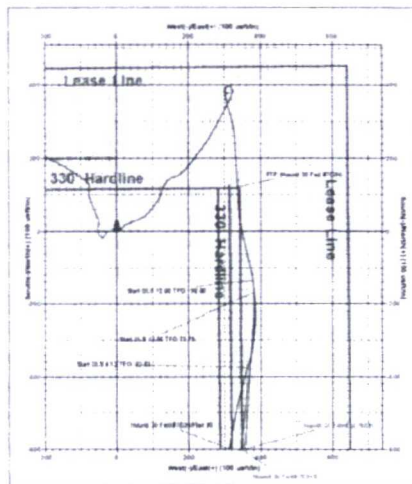
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	12841.0	87.60	171.30	12555.9	-136.1	379.9	0.00	0.00	155.5	
2	12871.0	84.48	173.11	12558.0	-165.7	384.0	12.00	150.00	185.3	
3	13083.4	91.90	197.53	12564.8	-375.4	364.4	12.00	73.75	293.7	
4	13507.9	91.20	180.00	12553.2	-793.1	300.0	4.13	-92.03	807.5	
5	13900.4	91.20	180.00	12545.0	-1185.5	300.0	0.00	0.00	1199.4	
6	14000.6	89.31	179.33	12544.6	-1285.7	300.6	2.00	-160.49	1299.5	
7	19858.7	89.31	179.33	12615.0	-7143.0	369.0	0.00	0.00	7152.5	PBHL (Hound 30 Fed #702H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVC	+N/-S	+E/-W	Northing	Easting
PBHL (Hound 30 Fed #702H)	12818.0	7243.0	369.0	393878.00	753813.00
6000	12846.0	4888.0	362.1	396133.80	753796.08
8000	12860.0	8888.0	369.0	396133.80	753803.88
PTP (Hound 30 Fed #702H)	12874.0	119.0	314.0	401240.00	753758.00
Plan @ 12884.3 (H&P 642 ST T&C)	12884.3	7243.0	369.0	393878.00	753813.00
TGTW (Hound 30 Fed #702H)	12880.0	-1688.0	327.3	399438.80	753771.29
TGTW (Hound 30 Fed #702H)	12884.0	-6887.4	342.3	397434.60	753766.32
TGTW (Hound 30 Fed #702H)	12895.0	-6288.0	355.3	395837.30	753799.34





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Hound 30 Fed

#702H

ST

Design: ST

PVA

25 April, 2017

HOBBS OCD
SEP 19 2017
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EOG Resources, Inc.

PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Hound 30 Fed
Well: #702H
Wellbore: ST
Design: ST

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3342.0usft (H&P 642)
MD Reference: KB = 25' @ 3342.0usft (H&P 642)
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)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site: Hound 30 Fed

Site Position:	From:	Map	Position Uncertainty:	0.0 usft	Northing:	401,122.00 usft	Easting:	753,414.00 usft	Slot Radius:	13-3/16 "	Latitude:	32° 6' 0.564 N	Longitude:	103° 30' 53.914 W	Grid Convergence:	0.43 "
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Well: #702H

Well Position	+N/-S	0.0 usft	Wellhead Elevation:	0.0 usft	Northing:	401,122.00 usft	Easting:	753,444.00 usft	Latitude:	32° 6' 0.562 N	Longitude:	103° 30' 53.566 W	Ground Level:	3,317.0 usft
	+E/-W	0.0 usft												
Position Uncertainty		0.0 usft												

Wellbore: ST

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/12/2017	6.94	59.96	47,890

Design: ST

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 12,841.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	177.08



EOG Resources, Inc.

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

Survey Program		Date 4/25/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
141.0	12,841.0	Intrepid MWD #1 (OH)	MWD	MWD - Standard	
12,878.0	19,855.0	Intrepid MWD (ST)	MWD	MWD - Standard	

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	
141.0	0.22	140.44	141.0	-0.2	0.2	0.16	0.16	0.00	0.0	0.0	
230.0	0.00	333.01	230.0	-0.3	0.3	0.25	-0.25	0.00	0.0	0.0	
315.0	0.04	1.13	315.0	-0.3	0.3	0.05	0.05	0.00	0.0	0.0	
502.0	0.18	188.25	502.0	-0.5	0.2	0.12	0.07	-92.45	0.0	0.0	
594.0	0.00	30.75	594.0	-0.7	0.2	0.20	-0.20	0.00	0.0	0.0	
688.0	0.18	152.88	688.0	-0.8	0.3	0.19	0.19	0.00	0.0	0.0	
782.0	0.22	150.81	782.0	-1.1	0.4	0.04	0.04	-1.97	0.0	0.0	
844.0	0.31	156.88	844.0	-1.4	0.6	0.15	0.15	9.79	0.0	0.0	
1,031.0	0.30	142.60	1,031.0	-2.2	1.1	0.04	-0.01	-7.64	0.0	0.0	
1,094.0	0.50	151.50	1,094.0	-2.6	1.3	0.33	0.32	14.13	0.0	0.0	
1,225.0	0.80	166.50	1,225.0	-4.0	1.8	0.26	0.23	11.45	0.0	0.0	
1,411.0	0.30	278.00	1,411.0	-5.2	1.6	0.51	-0.27	59.95	0.0	0.0	
1,598.0	0.10	231.70	1,598.0	-5.2	1.0	0.13	-0.11	-24.76	0.0	0.0	
1,786.0	0.20	12.20	1,786.0	-5.0	0.9	0.15	0.05	74.73	0.0	0.0	
1,973.0	0.30	200.90	1,973.0	-5.1	0.8	0.27	0.05	-91.60	0.0	0.0	
2,161.0	1.50	27.30	2,161.0	-3.4	1.8	0.96	0.64	-92.34	0.0	0.0	
2,349.0	1.50	35.30	2,348.9	0.8	4.3	0.11	0.00	4.26	0.0	0.0	
2,537.0	0.30	51.70	2,536.9	3.1	6.1	0.65	-0.64	8.72	0.0	0.0	
2,724.0	1.50	54.70	2,723.8	4.8	8.5	0.64	0.64	1.60	0.0	0.0	
2,912.0	3.10	52.80	2,911.7	9.3	14.6	0.85	0.85	-1.01	0.0	0.0	



EOG Resources, Inc.

PVA

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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)
3,100.0	3.60	57.20	3,099.4	15.6	23.6	0.30	0.27	2.34	0.0	0.0
3,288.0	5.80	64.60	3,286.7	22.9	37.1	1.21	1.17	3.94	0.0	0.0
3,475.0	6.70	72.20	3,472.6	30.3	56.1	0.65	0.48	4.06	0.0	0.0
3,663.0	7.90	57.10	3,659.1	40.6	77.3	1.20	0.64	-8.03	0.0	0.0
3,851.0	7.30	35.90	3,845.5	57.3	95.2	1.52	-0.32	-11.28	0.0	0.0
4,039.0	7.90	40.30	4,031.8	76.9	110.6	0.44	0.32	2.34	0.0	0.0
4,226.0	6.80	19.90	4,217.3	97.1	122.6	1.50	-0.59	-10.91	0.0	0.0
4,414.0	6.20	18.30	4,404.1	117.2	129.6	0.33	-0.32	-0.85	0.0	0.0
4,601.0	5.00	40.30	4,590.2	133.0	138.1	1.30	-0.64	11.76	0.0	0.0
4,790.0	4.40	54.40	4,778.6	143.5	149.3	0.69	-0.32	7.46	0.0	0.0
4,977.0	4.70	79.90	4,965.0	149.0	162.7	1.08	0.16	13.64	0.0	0.0
5,165.0	6.70	50.50	5,152.1	157.3	178.7	1.85	1.06	-15.64	0.0	0.0
5,352.0	5.80	44.80	5,338.0	171.0	193.8	0.58	-0.48	-3.05	0.0	0.0
5,539.0	6.80	37.10	5,523.9	186.5	207.1	0.70	0.53	-4.12	0.0	0.0
5,726.0	6.30	38.40	5,709.7	203.4	220.2	0.28	-0.27	0.70	0.0	0.0
5,913.0	5.90	38.00	5,895.6	219.0	232.5	0.22	-0.21	-0.21	0.0	0.0
6,100.0	5.80	36.70	6,081.6	234.1	244.0	0.09	-0.05	-0.70	0.0	0.0
6,288.0	5.10	33.60	6,268.8	248.7	254.3	0.40	-0.37	-1.65	0.0	0.0
6,475.0	4.80	30.60	6,455.1	262.4	262.9	0.21	-0.16	-1.60	0.0	0.0
6,661.0	5.50	30.90	6,640.3	276.7	271.5	0.38	0.38	0.16	0.0	0.0
6,848.0	5.40	29.70	6,826.5	292.1	280.4	0.08	-0.05	-0.64	0.0	0.0
7,035.0	5.00	27.30	7,012.7	306.9	288.5	0.24	-0.21	-1.28	0.0	0.0
7,223.0	4.20	30.20	7,200.1	320.2	295.7	0.44	-0.43	1.54	0.0	0.0
7,410.0	3.50	27.40	7,386.7	331.2	301.8	0.39	-0.37	-1.50	0.0	0.0
7,598.0	3.80	25.80	7,574.3	341.9	307.2	0.17	0.16	-0.85	0.0	0.0
7,785.0	3.30	30.80	7,761.0	352.1	312.6	0.31	-0.27	2.67	0.0	0.0
7,972.0	3.30	18.50	7,947.7	361.8	317.1	0.38	0.00	-6.58	0.0	0.0



EOG Resources, Inc.

PVA

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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)
8,160.0	2.40	20.80	8,135.4	370.6	320.2	0.48	-0.48	1.22	0.0	0.0
8,347.0	1.40	29.80	8,322.3	376.2	322.7	0.56	-0.53	4.81	0.0	0.0
8,534.0	1.60	23.20	8,509.3	380.6	324.9	0.14	0.11	-3.53	0.0	0.0
8,722.0	1.00	349.00	8,697.2	384.6	325.6	0.51	-0.32	-18.19	0.0	0.0
8,910.0	0.50	249.40	8,885.2	386.0	324.5	0.63	-0.27	-52.98	0.0	0.0
9,098.0	0.40	268.80	9,073.2	385.7	323.1	0.10	-0.05	10.32	0.0	0.0
9,286.0	0.40	272.50	9,261.2	385.7	321.8	0.01	0.00	1.97	0.0	0.0
9,472.0	0.90	353.20	9,447.2	387.2	321.0	0.50	0.27	43.39	0.0	0.0
9,658.0	1.60	0.70	9,633.1	391.2	320.8	0.39	0.38	4.03	0.0	0.0
9,845.0	1.30	319.00	9,820.1	395.4	319.5	0.57	-0.16	-22.30	0.0	0.0
10,032.0	2.50	249.70	10,007.0	395.6	314.2	1.27	0.64	-37.06	0.0	0.0
10,218.0	0.70	305.70	10,192.9	394.9	309.5	1.18	-0.97	30.11	0.0	0.0
10,406.0	1.50	239.50	10,380.9	394.3	306.5	0.73	0.43	-35.21	0.0	0.0
10,592.0	1.20	186.40	10,566.8	391.1	304.1	0.66	-0.16	-28.55	0.0	0.0
10,780.0	0.50	184.10	10,754.8	388.3	303.9	0.37	-0.37	-1.22	0.0	0.0
10,968.0	0.30	174.80	10,942.8	387.0	303.9	0.11	-0.11	-4.95	0.0	0.0
11,155.0	1.40	216.00	11,129.8	384.7	302.6	0.64	0.59	22.03	0.0	0.0
11,343.0	3.30	147.00	11,317.7	378.3	304.2	1.64	1.01	-36.70	0.0	0.0
11,530.0	2.50	72.00	11,504.5	375.0	311.0	1.92	-0.43	-40.11	0.0	0.0
11,718.0	1.00	316.90	11,692.4	377.5	313.7	1.63	-0.80	-61.22	0.0	0.0
11,833.0	1.30	268.20	11,807.4	378.2	311.8	0.86	0.26	-42.35	0.0	0.0
11,952.0	2.10	269.00	11,926.3	378.1	308.2	0.67	0.67	0.67	0.0	0.0
12,046.0	3.00	227.90	12,020.2	376.4	304.7	2.10	0.96	-43.72	0.0	0.0
12,093.0	10.50	177.90	12,066.9	371.3	303.9	18.87	15.96	-106.38	0.0	0.0
12,140.0	18.40	167.80	12,112.4	359.8	305.6	17.58	16.81	-21.49	0.0	0.0
12,187.0	27.20	161.40	12,155.7	342.3	310.7	19.43	18.72	-13.62	0.0	0.0
12,234.0	30.50	163.40	12,196.9	320.7	317.5	7.31	7.02	4.26	0.0	0.0



EOG Resources, Inc.

PVA

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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)
12,281.0	32.10	166.60	12,237.0	297.1	323.8	4.91	3.40	6.81	0.0	0.0
12,327.0	38.10	174.60	12,274.7	271.1	328.0	16.41	13.04	17.39	0.0	0.0
12,374.0	39.70	176.90	12,311.2	241.6	330.1	4.59	3.40	4.89	0.0	0.0
12,420.0	42.20	176.70	12,346.0	211.5	331.8	5.44	5.43	-0.43	0.0	0.0
12,467.0	45.30	176.80	12,379.9	179.1	333.7	6.60	6.60	0.21	0.0	0.0
12,514.0	48.80	176.80	12,411.9	144.7	335.6	7.45	7.45	0.00	0.0	0.0
12,561.0	47.80	177.50	12,443.2	109.7	337.3	2.40	-2.13	1.49	0.0	0.0
12,608.0	52.60	177.10	12,473.3	73.6	339.0	10.23	10.21	-0.85	0.0	0.0
12,655.0	59.80	171.30	12,499.4	34.8	343.1	18.43	15.32	-12.34	0.0	0.0
12,701.0	62.90	166.40	12,521.5	-4.7	350.9	11.52	6.74	-10.65	0.0	0.0
12,748.0	71.50	166.30	12,539.7	-46.8	361.1	18.30	18.30	-0.21	0.0	0.0
12,794.0	80.20	167.30	12,550.9	-90.2	371.3	19.03	18.91	2.17	0.0	0.0
12,841.0	87.60	171.30	12,555.9	-136.1	379.9	17.87	15.74	8.51	0.0	0.0
12,878.0	82.90	176.20	12,559.0	-172.7	383.9	18.31	-12.70	13.24	0.3	-0.8
12,917.0	84.70	181.00	12,563.2	-211.5	384.9	13.08	4.62	12.31	1.4	-2.5
12,948.0	86.30	184.20	12,565.6	-242.3	383.5	11.51	5.16	10.32	2.0	-3.8
12,979.0	87.50	185.10	12,567.3	-273.2	381.0	4.84	3.87	2.90	2.4	-4.2
13,042.0	89.10	186.00	12,569.2	-335.8	374.9	2.91	2.54	1.43	3.5	-0.2
13,064.0	89.70	185.50	12,569.4	-357.7	372.7	3.55	2.73	-2.27	4.1	2.9
13,157.0	93.10	187.20	12,567.1	-450.1	362.4	4.09	3.66	1.83	4.8	18.7
13,251.0	89.50	185.80	12,565.0	-543.5	351.8	4.11	-3.83	-1.49	5.4	28.6
13,346.0	94.70	187.90	12,561.5	-637.7	340.5	5.90	5.47	2.21	4.5	31.5
13,439.0	91.20	186.90	12,556.7	-729.8	328.5	3.91	-3.76	-1.08	2.1	27.0
13,534.0	92.00	188.20	12,554.1	-823.9	316.0	1.61	0.84	1.37	1.4	16.0
13,627.0	88.80	188.90	12,553.4	-915.9	302.2	3.52	-3.44	0.75	2.8	2.2
13,721.0	86.50	186.20	12,557.3	-1,009.0	289.9	3.77	-2.45	-2.87	8.6	-10.2
13,814.0	89.00	180.70	12,560.9	-1,101.7	284.3	6.49	2.69	-5.91	14.2	-15.7



EOG Resources, Inc.
PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Hound 30 Fed
Well: #702H
Wellbore: ST
Design: ST

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25' @ 3342.0usft (H&P 642)
MD Reference: KB = 25' @ 3342.0usft (H&P 642)
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)	
13,908.0	89.10	176.10	12,562.5	-1,195.6	286.9	4.89	0.11	-4.89	17.7	-13.1	
14,001.0	94.90	178.90	12,559.2	-1,288.4	290.9	6.92	6.24	3.01	14.6	-9.7	
14,095.0	92.00	179.00	12,553.6	-1,382.2	292.7	3.09	-3.09	0.11	7.9	-9.0	
14,188.0	89.80	179.00	12,552.1	-1,475.2	294.3	2.37	-2.37	0.00	5.3	-8.5	
14,282.0	90.20	179.00	12,552.1	-1,569.2	295.9	0.43	0.43	0.00	4.2	-8.0	
14,375.0	89.80	179.00	12,552.1	-1,662.2	297.6	0.43	-0.43	0.00	3.1	-7.4	
14,468.0	91.80	181.60	12,550.8	-1,755.1	297.1	3.53	2.15	2.80	0.6	-9.0	
14,562.0	90.60	181.10	12,548.9	-1,849.1	294.9	1.38	-1.28	-0.53	-2.5	-12.3	
14,656.0	88.10	177.30	12,549.9	-1,943.0	296.2	4.84	-2.66	-4.04	-2.5	-12.1	
14,749.0	86.00	175.50	12,554.7	-2,035.7	302.0	2.97	-2.26	-1.94	1.2	-7.3	
14,843.0	86.60	176.20	12,560.8	-2,129.3	308.8	0.98	0.64	0.74	6.1	-1.6	
14,937.0	88.30	175.80	12,565.0	-2,223.0	315.3	1.86	1.81	-0.43	9.1	3.8	
15,030.0	89.50	176.30	12,566.7	-2,315.7	321.7	1.40	1.29	0.54	9.8	9.1	
15,124.0	91.50	178.80	12,565.9	-2,409.6	325.8	3.41	2.13	2.66	7.9	12.0	
15,218.0	90.00	179.90	12,564.7	-2,503.6	326.8	1.98	-1.60	1.17	5.5	12.0	
15,312.0	87.40	179.40	12,566.8	-2,597.6	327.4	2.82	-2.77	-0.53	6.5	11.5	
15,405.0	91.60	179.90	12,567.6	-2,690.5	328.0	4.55	4.52	0.54	6.2	11.0	
15,499.0	91.30	178.60	12,565.3	-2,784.5	329.2	1.42	-0.32	-1.38	2.7	11.1	
15,592.0	90.10	177.30	12,564.1	-2,877.4	332.5	1.90	-1.29	-1.40	0.4	13.3	
15,685.0	89.80	177.30	12,564.2	-2,970.3	336.9	0.32	-0.32	0.00	-0.6	16.6	
15,779.0	90.10	176.10	12,564.3	-3,064.2	342.3	1.32	0.32	-1.28	-1.7	21.0	
15,873.0	90.60	176.90	12,563.7	-3,158.0	348.1	1.00	0.53	0.85	-3.3	25.6	
15,967.0	90.20	177.30	12,563.1	-3,251.9	352.8	0.60	-0.43	0.43	-5.1	29.3	
16,061.0	89.80	179.20	12,563.1	-3,345.8	355.7	2.07	-0.43	2.02	-6.3	31.0	
16,163.0	89.10	179.80	12,564.0	-3,447.8	356.6	0.90	-0.69	0.59	-6.5	30.7	
16,257.0	90.50	181.90	12,564.4	-3,541.8	355.2	2.68	1.49	2.23	-7.3	28.2	
16,351.0	91.60	181.70	12,562.6	-3,635.7	352.2	1.19	1.17	-0.21	-10.2	24.2	



EOG Resources, Inc.

PVA

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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)
16,445.0	92.50	182.10	12,559.3	-3,729.8	349.1	1.05	0.96	0.43	-14.7	20.0
16,539.0	90.90	180.80	12,556.5	-3,823.5	346.7	2.19	-1.70	-1.38	-18.6	16.5
16,633.0	89.90	179.70	12,555.8	-3,917.5	346.3	1.58	-1.06	-1.17	-20.4	15.0
16,718.0	87.20	178.90	12,558.0	-4,002.5	347.4	3.31	-3.18	-0.94	-19.2	15.0
16,810.0	89.50	177.20	12,560.6	-4,094.4	350.5	3.11	2.50	-1.85	-17.7	17.1
16,904.0	92.40	177.10	12,559.1	-4,188.2	355.2	3.09	3.09	-0.11	-20.4	20.7
16,998.0	93.50	176.70	12,554.2	-4,282.0	360.2	1.24	1.17	-0.43	-26.3	24.7
17,092.0	93.80	178.60	12,548.3	-4,375.7	364.1	2.04	0.32	2.02	-33.4	27.5
17,185.0	95.20	178.10	12,541.0	-4,468.4	368.8	1.80	1.51	-0.54	-41.8	29.1
17,279.0	91.20	178.30	12,535.7	-4,562.2	369.7	4.28	-4.26	0.21	-48.2	30.8
17,373.0	89.90	180.40	12,534.8	-4,656.2	370.8	2.63	-1.38	2.23	-50.3	30.8
17,467.0	87.20	181.20	12,537.2	-4,750.1	369.5	3.00	-2.87	0.85	-49.0	28.4
17,560.0	89.20	182.60	12,540.1	-4,843.0	366.4	2.62	2.15	1.51	-47.2	24.2
17,653.0	85.40	183.80	12,544.5	-4,935.7	361.2	4.28	-4.09	1.29	-43.9	18.0
17,746.0	86.90	184.80	12,550.7	-5,028.3	354.2	1.94	1.61	1.08	-38.8	10.0
17,839.0	89.60	186.30	12,553.6	-5,120.8	345.2	3.32	2.90	1.61	-37.1	-0.1
17,932.0	88.00	185.80	12,555.5	-5,213.2	335.4	1.80	-1.72	-0.54	-36.3	-10.9
18,025.0	87.90	182.00	12,558.9	-5,305.9	329.1	4.08	-0.11	-4.09	-34.1	-18.4
18,118.0	89.50	181.30	12,561.0	-5,398.9	326.4	1.88	1.72	-0.75	-33.1	-22.2
18,211.0	88.40	180.90	12,562.7	-5,491.8	324.7	1.26	-1.18	-0.43	-32.5	-25.0
18,304.0	90.50	182.40	12,563.6	-5,584.8	322.0	2.77	2.26	1.61	-32.7	-28.8
18,397.0	89.20	179.90	12,563.8	-5,677.8	320.1	3.03	-1.40	-2.69	-33.6	-31.8
18,491.0	86.70	177.90	12,567.2	-5,771.7	321.9	3.40	-2.66	-2.13	-31.3	-31.1
18,584.0	89.10	177.80	12,570.6	-5,864.5	325.4	2.58	2.58	-0.11	-29.0	-28.7
18,678.0	88.80	178.20	12,572.3	-5,958.5	328.7	0.53	-0.32	0.43	-28.4	-26.5
18,772.0	85.20	177.00	12,577.2	-6,052.2	332.6	4.04	-3.83	-1.28	-24.6	-23.7
18,865.0	85.10	177.20	12,585.1	-6,144.8	337.3	0.24	-0.11	0.22	-17.9	-20.1



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18,959.0	86.90	178.10	12,591.6	-6,238.5	341.1	2.14	1.91	0.96	-12.5	-17.3
19,053.0	86.40	177.50	12,597.1	-6,332.2	344.7	0.83	-0.53	-0.64	-8.1	-14.8
19,146.0	86.30	177.70	12,603.0	-6,425.0	348.6	0.24	-0.11	0.22	-3.3	-12.0
19,240.0	90.10	177.40	12,606.0	-6,518.8	352.6	4.06	4.04	-0.32	-1.5	-9.1
19,333.0	89.30	177.40	12,606.5	-6,611.7	356.9	0.86	-0.86	0.00	-2.1	-5.9
19,427.0	88.70	176.10	12,608.1	-6,705.5	362.2	1.52	-0.64	-1.38	-1.6	-1.7
19,520.0	89.90	175.40	12,609.3	-6,798.3	369.1	1.49	1.29	-0.75	-1.6	4.1
19,613.0	91.60	175.30	12,608.0	-6,891.0	376.6	1.83	1.83	-0.11	-3.9	10.6
19,707.0	92.00	175.20	12,605.1	-6,984.6	384.4	0.44	0.43	-0.11	-8.0	17.3
19,800.0	93.10	175.10	12,601.0	-7,077.2	392.3	1.19	1.18	-0.11	-13.2	24.1
Last MWD Survey										
19,855.0	93.10	175.10	12,598.0	-7,131.9	397.0	0.00	0.00	0.00	-16.8	28.1
Projection To Bit										

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
19,800.0	12,601.0	-7,077.2	392.3	Last MWD Survey
19,855.0	12,598.0	-7,131.9	397.0	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____