



Lea County, NM (NAD 27 NME)

Hound 30 Fed #703H

H&P 647

Plan #1



Azimuths to Grid North
True North: -0.44°
Magnetic North: 0.57°
Magnetic Field
Strength: 47555.8nT
Dip Angle: 59.97°
Date: 8/22/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 0.57°
To convert a Magnetic Direction to a True Direction, Add 7.01° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

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: #703H

Ground Level: 3323.0
KB = 25' @ 3348.0usft (H&P 647)
Northing: 401262.00 Easting: 754739.00
Latitude: 32° 6' 1.258 N Longitude: 103° 30' 38.505 W

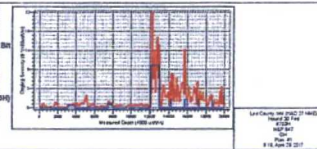
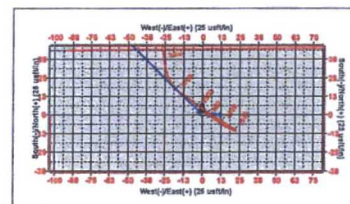
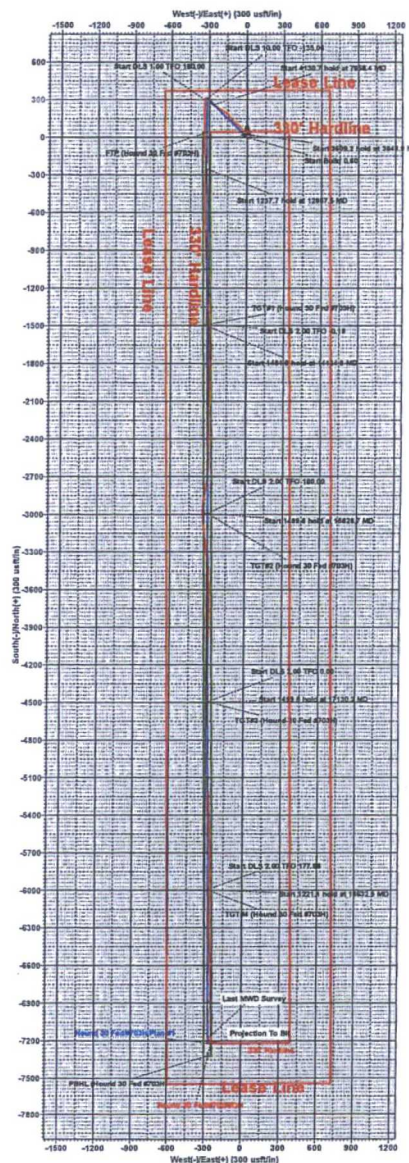
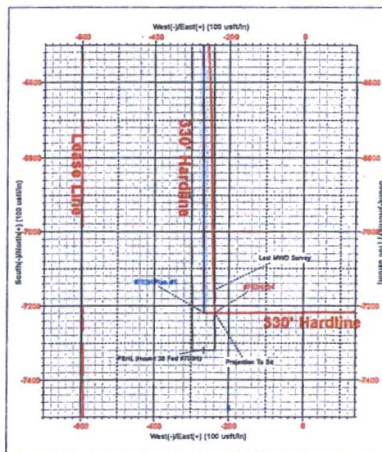
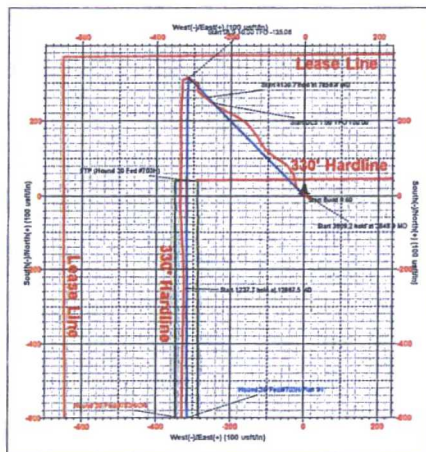
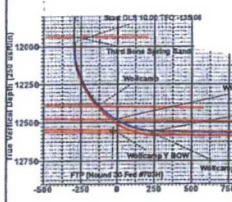
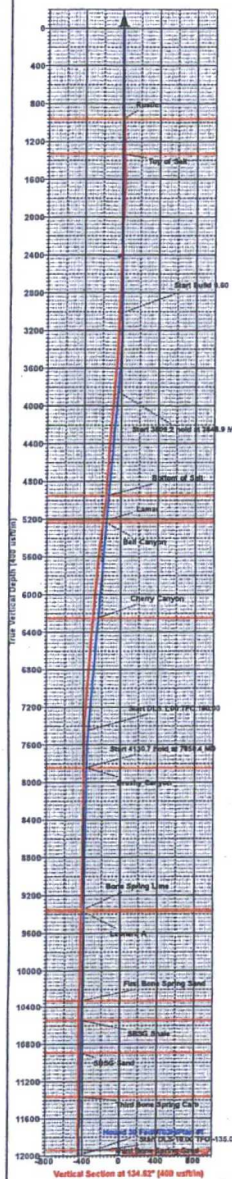
SECTION DETAILS

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	3015.0	0.00	0.00	3015.0	0.0	0.0	0.00	0.00	0.0	
3	3848.9	5.00	314.62	3847.8	25.6	-25.9	0.60	314.62	-24.6	
4	7458.1	5.00	314.62	7443.3	246.6	-250.0	0.00	0.00	-237.2	
5	7858.4	1.00	314.62	7843.0	261.4	-264.9	1.00	180.00	-251.4	
6	11989.2	1.00	314.62	11973.1	312.0	-316.2	0.00	0.00	-300.1	
7	12887.5	89.12	179.57	12553.0	-252.2	-319.0	10.00	-135.06	263.8	TGT#1 (Hound 30 Fed #703H)
8	14125.2	89.12	179.57	12572.0	-1489.7	-309.7	0.00	0.00	1500.1	
9	14134.8	89.31	179.57	12572.1	-1499.3	-309.7	2.00	-0.19	1509.7	TGT#2 (Hound 30 Fed #703H)
10	15626.7	89.31	179.57	12590.0	-2991.1	-298.5	0.00	0.00	3000.1	
11	15628.7	89.27	179.57	12590.0	-2993.0	-298.5	2.00	180.00	3002.0	TGT#3 (Hound 30 Fed #703H)
12	17128.3	89.27	179.57	12609.0	-4492.5	-287.2	0.00	0.00	4500.0	
13	17130.2	89.31	179.57	12609.0	-4494.4	-287.2	2.00	0.00	4502.0	TGT#4 (Hound 30 Fed #703H)
14	18629.8	89.31	179.57	12627.0	-5993.9	-275.9	0.00	0.00	6000.0	
15	18632.9	89.25	179.57	12627.0	-5997.0	-275.9	2.00	177.86	6003.1	
16	19854.1	89.25	179.57	12643.0	-7218.0	-266.8	0.00	0.00	7222.9	PBHL (Hound 30 Fed #703H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
TGT#1 (Hound 30 Fed #703H)	12572.0	-1489.7	-309.7	399712.35	754428.26
TGT#2 (Hound 30 Fed #703H)	12590.0	-2991.1	-298.5	399210.50	754440.53
TGT#3 (Hound 30 Fed #703H)	12609.0	-4492.5	-287.2	396709.50	754451.79
TGT#4 (Hound 30 Fed #703H)	12627.0	-5993.9	-275.9	395208.10	754463.06
PBHL (Hound 30 Fed #703H)	12643.0	-7318.0	-266.0	393884.00	754473.00
FTP (Hound 30 Fed #703H)	12553.0	42.0	-321.0	401244.00	754418.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Hound 30 Fed

#703H

OH

Design: OH

PVA

28 April, 2017



EOG Resources, Inc.
PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Hound 30 Fed
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3348.0usft (H&P 647)
MD Reference: KB = 25' @ 3348.0usft (H&P 647)
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	Hound 30 Fed		
Site Position:		Northing:	401,122.00 usft
From: Map		Easting:	753,414.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 0.564 N
		Longitude:	103° 30' 53.914 W
		Grid Convergence:	0.43 °

Well	#703H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 6' 1.256 N
		Longitude:	103° 30' 38.505 W
		Ground Level:	3,323.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	8/22/2016	7.01
			Dip Angle
			59.97
			Field Strength
			47,956

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)
	12,643.0	0.0	0.0
			Direction
			182.08



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Survey Program		Date 4/28/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
140.0	1,029.0	TrueShot MWD #1 (OH)	MWD	MWD - Standard	
1,159.0	19,890.0	Intrepid MWD #1 (OH)	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	
140.0	0.60	92.60	140.0	0.0	0.7	0.43	0.43	0.00	-0.7	0.0	
257.0	0.50	52.50	257.0	0.2	1.7	0.33	-0.09	-34.27	-1.5	-0.9	
343.0	0.60	353.10	343.0	0.9	2.0	0.64	0.12	-69.07	-0.7	-2.1	
436.0	0.50	113.80	436.0	1.2	2.3	1.03	-0.11	129.78	-1.6	2.1	
534.0	0.90	130.40	534.0	0.6	3.3	0.45	0.41	16.94	-2.1	2.6	
622.0	0.90	124.00	622.0	-0.3	4.4	0.11	0.00	-7.27	-3.8	2.2	
716.0	1.40	124.60	715.9	-1.3	5.9	0.53	0.53	0.64	-5.6	2.3	
810.0	1.40	123.20	809.9	-2.6	7.8	0.04	0.00	-1.49	-8.0	2.1	
904.0	1.50	119.90	903.9	-3.8	9.9	0.14	0.11	-3.51	-10.5	1.6	
1,029.0	1.60	120.30	1,028.8	-5.5	12.8	0.08	0.08	0.32	-13.8	1.7	
1,159.0	1.30	126.60	1,158.8	-7.3	15.5	0.26	-0.23	4.85	-16.9	3.4	
1,344.0	1.10	112.00	1,343.8	-9.3	18.9	0.20	-0.11	-7.89	-21.0	-1.5	
1,532.0	1.20	114.10	1,531.7	-10.7	22.4	0.06	0.05	1.12	-24.8	-0.7	
1,720.0	1.40	307.50	1,719.7	-10.1	22.3	1.37	0.11	-88.62	23.9	-5.5	
1,908.0	2.70	301.60	1,907.6	-6.4	16.7	0.70	0.69	-3.14	17.6	-3.3	
2,096.0	2.40	301.50	2,095.4	-2.0	9.6	0.16	-0.16	-0.05	9.3	-3.3	
2,284.0	2.20	302.30	2,283.2	1.9	3.2	0.11	-0.11	0.43	1.7	-3.3	
2,471.0	2.20	308.20	2,470.1	6.1	-2.7	0.12	0.00	3.16	-5.8	-3.1	
2,659.0	2.10	306.50	2,658.0	10.4	-8.3	0.06	-0.05	-0.90	-12.8	-3.4	
2,846.0	2.00	306.50	2,844.9	14.3	-13.6	0.05	-0.05	0.00	-19.5	-3.4	



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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)
3,033.0	1.80	311.90	3,031.8	18.2	-18.4	0.14	-0.11	2.89	-25.9	-1.3
3,221.0	3.20	336.70	3,219.6	25.0	-22.7	0.92	0.74	13.19	-29.9	10.1
3,409.0	3.30	355.40	3,407.3	35.2	-25.2	0.56	0.05	9.95	-31.0	17.0
3,596.0	4.90	346.00	3,593.8	48.4	-27.6	0.93	0.86	-5.03	-38.6	5.9
3,784.0	5.20	323.50	3,781.1	63.0	-34.6	1.06	0.16	-11.97	-40.7	-14.4
3,971.0	5.10	325.70	3,967.3	76.7	-44.3	0.12	-0.05	1.18	-42.2	-15.7
4,158.0	5.60	301.50	4,153.5	88.3	-56.8	1.23	0.27	-12.94	-33.0	-31.2
4,345.0	5.10	298.90	4,339.7	97.1	-71.9	0.30	-0.27	-1.39	-33.2	-28.7
4,533.0	3.10	309.00	4,527.2	104.3	-83.1	1.13	-1.06	5.37	-34.7	-19.4
4,720.0	5.00	306.60	4,713.8	112.4	-93.6	1.02	1.02	-1.28	-30.9	-18.7
4,907.0	2.50	310.50	4,900.3	119.9	-103.2	1.34	-1.34	2.09	-28.0	-14.9
5,094.0	7.70	327.60	5,086.5	133.1	-113.1	2.87	2.78	9.14	-31.7	-8.5
5,280.0	7.30	324.00	5,271.0	153.2	-126.7	0.33	-0.22	-1.94	-39.4	-13.9
5,469.0	7.80	323.20	5,458.3	173.2	-141.4	0.27	0.26	-0.42	-47.8	-17.1
5,657.0	6.50	316.10	5,644.9	191.1	-156.4	0.83	-0.69	-3.78	-52.3	-24.8
5,845.0	5.70	300.70	5,831.8	203.5	-171.8	0.96	-0.43	-8.19	-47.6	-36.6
6,032.0	5.50	297.10	6,017.9	212.3	-187.8	0.22	-0.11	-1.93	-47.9	-35.2
6,219.0	4.90	297.50	6,204.1	220.1	-202.9	0.32	-0.32	0.21	-49.5	-30.0
6,407.0	4.70	296.60	6,391.5	227.3	-216.9	0.11	-0.11	-0.48	-49.1	-25.8
6,593.0	4.60	294.10	6,576.9	233.7	-230.5	0.12	-0.05	-1.34	-47.8	-22.6
6,781.0	4.70	305.40	6,764.3	241.3	-243.7	0.49	0.05	6.01	-50.2	-8.7
6,968.0	4.60	307.90	6,950.6	250.3	-255.8	0.12	-0.05	1.34	-49.5	-4.3
7,156.0	4.40	308.70	7,138.1	259.4	-267.4	0.11	-0.11	0.43	-48.0	-1.8
7,343.0	3.20	306.10	7,324.6	267.0	-277.2	0.65	-0.64	-1.39	-44.1	-1.9
7,530.0	0.60	257.80	7,511.5	269.9	-282.4	1.52	-1.39	-25.83	-23.7	-24.8
7,718.0	1.20	342.60	7,699.5	271.5	-283.9	0.69	0.32	45.11	-19.2	17.1
7,904.0	1.40	296.20	7,885.5	274.4	-286.6	0.56	0.11	-24.95	-24.5	-1.9



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PVA

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Local Co-ordinate Reference: Well #703H
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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)
8,092.0	1.40	313.70	8,073.4	277.0	-290.3	0.23	0.00	9.31	-25.1	6.3
8,280.0	0.80	359.30	8,261.4	279.9	-292.0	0.54	-0.32	24.26	-13.7	21.7
8,468.0	1.70	2.40	8,449.3	284.0	-291.9	0.48	0.48	1.65	-14.4	20.1
8,656.0	1.80	27.80	8,637.3	289.4	-290.4	0.41	0.05	13.51	-8.9	22.3
8,841.0	0.60	17.20	8,822.2	292.9	-288.7	0.66	-0.65	-5.73	-15.2	16.9
9,029.0	1.30	323.00	9,010.2	295.5	-289.7	0.57	0.37	-28.83	-22.1	-3.7
9,217.0	1.30	316.30	9,198.1	298.8	-292.5	0.08	0.00	-3.56	-22.5	-6.6
9,404.0	1.40	303.80	9,385.1	301.6	-295.8	0.17	0.05	-6.68	-21.7	-11.1
9,592.0	2.00	287.10	9,573.0	303.8	-300.9	0.41	0.32	-8.88	-20.1	-16.0
9,780.0	1.20	321.20	9,760.9	306.3	-305.3	0.64	-0.43	18.14	-27.1	-0.5
9,967.0	0.70	292.50	9,947.9	308.3	-307.5	0.36	-0.27	-15.35	-23.3	-13.2
10,154.0	1.50	328.00	10,134.9	310.8	-309.9	0.54	0.43	18.98	-26.8	2.7
10,342.0	1.90	298.50	10,322.8	314.4	-313.9	0.50	0.21	-15.69	-26.8	-11.2
10,531.0	0.50	298.00	10,511.7	316.3	-317.4	0.74	-0.74	-0.26	-27.5	-10.5
10,719.0	0.40	208.10	10,699.7	316.1	-318.4	0.34	-0.05	-47.82	8.8	-25.2
10,907.0	1.80	205.60	10,887.7	312.8	-320.0	0.74	0.74	-1.33	5.2	-21.7
11,093.0	0.30	300.60	11,073.7	310.4	-321.7	0.99	-0.81	51.08	-19.2	0.4
11,282.0	0.70	233.10	11,262.7	310.0	-323.1	0.34	0.21	-35.71	-8.5	-14.8
11,470.0	0.40	31.20	11,450.7	309.9	-323.6	0.58	-0.16	84.10	3.6	14.1
11,658.0	1.20	252.40	11,638.7	309.8	-325.2	0.81	0.43	-73.83	-11.9	-5.8
11,849.0	0.80	263.10	11,829.6	309.1	-328.4	0.23	-0.21	5.60	-14.0	-0.5
11,947.0	1.40	262.50	11,927.6	308.8	-330.3	0.61	0.61	-0.61	-14.9	0.7
12,041.0	0.90	263.70	12,021.6	308.6	-332.1	0.53	-0.53	1.28	-15.5	0.2
12,135.0	9.10	170.70	12,115.2	301.2	-331.7	9.78	8.72	-98.94	7.3	-12.9
12,182.0	19.30	181.60	12,160.7	289.7	-331.3	22.34	21.70	23.19	6.2	-13.2
12,229.0	23.80	183.60	12,204.4	272.5	-332.1	9.70	9.57	4.26	4.9	-13.7
12,276.0	27.30	183.80	12,246.8	252.2	-333.4	7.45	7.45	0.43	4.5	-14.7



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12,323.0	30.40	182.20	12,288.0	229.6	-334.6	6.80	6.60	-3.40	5.6	-15.4
12,369.0	34.70	180.80	12,326.7	204.9	-335.2	9.49	9.35	-3.04	7.5	-15.7
12,416.0	41.00	179.10	12,363.8	176.0	-335.2	13.59	13.40	-3.62	8.7	-15.2
12,463.0	44.30	178.70	12,398.4	144.2	-334.5	7.04	7.02	-0.85	9.6	-14.4
12,510.0	48.00	179.60	12,430.9	110.3	-334.1	7.99	7.87	1.91	11.1	-13.9
12,556.0	49.30	181.00	12,461.3	75.8	-334.2	3.63	2.83	3.04	14.2	-14.2
12,603.0	53.60	181.40	12,490.6	39.1	-335.0	9.17	9.15	0.85	18.9	-15.1
12,650.0	61.10	181.20	12,516.0	-0.5	-335.9	15.96	15.96	-0.43	22.7	-16.0
12,697.0	68.20	177.60	12,536.1	-42.9	-335.4	16.61	15.11	-7.66	24.4	-15.0
12,743.0	71.90	175.90	12,551.8	-86.1	-333.0	8.76	8.04	-3.70	25.1	-12.5
12,790.0	75.90	176.70	12,564.8	-131.1	-330.1	8.67	8.51	1.70	26.1	-10.0
12,814.0	77.50	177.20	12,570.3	-154.5	-328.8	6.97	6.67	2.08	26.8	-9.0
12,829.0	79.00	177.10	12,573.4	-169.1	-328.1	10.02	10.00	-0.67	27.4	-8.3
12,876.0	85.80	178.70	12,579.6	-215.6	-326.4	14.86	14.47	3.40	28.2	-7.1
12,923.0	91.30	180.90	12,580.8	-262.6	-326.2	12.60	11.70	4.68	27.6	-7.3
13,017.0	90.20	180.80	12,579.5	-356.6	-327.6	1.18	-1.17	-0.11	24.9	-9.4
13,110.0	89.80	181.10	12,579.5	-449.6	-329.2	0.54	-0.43	0.32	23.5	-11.6
13,204.0	88.20	180.40	12,581.2	-543.6	-330.4	1.86	-1.70	-0.74	23.7	-13.6
13,298.0	92.10	178.70	12,580.9	-637.5	-329.6	4.53	4.15	-1.81	22.0	-13.5
13,392.0	87.30	177.20	12,581.4	-731.4	-326.3	5.35	-5.11	-1.60	21.1	-10.8
13,485.0	90.50	178.10	12,583.2	-824.3	-322.5	3.57	3.44	0.97	21.4	-7.7
13,579.0	88.20	177.30	12,584.3	-918.2	-318.7	2.59	-2.45	-0.85	21.0	-4.7
13,673.0	91.00	177.30	12,584.9	-1,012.1	-314.3	2.98	2.98	0.00	20.3	-0.9
13,767.0	88.70	177.30	12,585.2	-1,106.0	-309.8	2.45	-2.45	0.00	19.1	2.8
13,861.0	92.30	177.00	12,584.4	-1,199.9	-305.2	3.84	3.83	-0.32	16.8	6.7
13,954.0	93.00	177.90	12,580.1	-1,292.7	-301.0	1.23	0.75	0.97	11.1	10.2
14,048.0	87.20	176.70	12,579.9	-1,386.5	-296.6	6.30	-6.17	-1.28	9.5	13.9



EOG Resources, Inc.

PVA

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Site: Hound 30 Fed
Well: #703H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3348.0usft (H&P 647)
MD Reference: KB = 25' @ 3348.0usft (H&P 647)
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)
14,142.0	87.60	176.40	12,584.2	-1,480.3	-291.0	0.53	0.43	-0.32	12.3	18.9
14,236.0	94.90	177.60	12,582.1	-1,574.1	-286.0	7.87	7.77	1.28	9.1	23.1
14,330.0	95.30	179.50	12,573.8	-1,667.6	-283.7	2.06	0.43	2.02	-0.4	24.7
14,377.0	94.70	179.00	12,569.7	-1,714.5	-283.1	1.66	-1.28	-1.06	-5.0	25.0
14,424.0	91.30	180.30	12,567.2	-1,761.4	-282.8	7.74	-7.23	2.77	-8.1	24.9
14,471.0	88.80	180.90	12,567.2	-1,808.4	-283.3	5.47	-5.32	1.28	-8.7	24.1
14,518.0	89.50	181.00	12,567.9	-1,855.4	-284.0	1.50	1.49	0.21	-8.5	22.9
14,565.0	91.10	180.90	12,567.6	-1,902.4	-284.8	3.41	3.40	-0.21	-9.4	21.8
14,612.0	89.20	181.40	12,567.5	-1,949.4	-285.8	4.18	-4.04	1.06	-10.0	20.5
14,659.0	88.50	182.30	12,568.4	-1,996.3	-287.3	2.43	-1.49	1.91	-9.6	18.7
14,705.0	86.60	181.40	12,570.4	-2,042.2	-288.8	4.57	-4.13	-1.96	-8.2	16.8
14,752.0	89.80	182.20	12,571.9	-2,089.2	-290.2	7.02	6.81	1.70	-7.3	15.0
14,798.0	89.60	181.50	12,572.1	-2,135.2	-291.7	1.58	-0.43	-1.52	-7.6	13.2
14,845.0	88.80	180.90	12,572.8	-2,182.2	-292.7	2.13	-1.70	-1.28	-7.5	11.8
14,892.0	90.10	181.20	12,573.2	-2,229.1	-293.6	2.84	2.77	0.64	-7.7	10.6
14,939.0	88.10	179.80	12,574.0	-2,276.1	-294.0	5.19	-4.26	-2.98	-7.5	9.9
14,986.0	89.50	178.60	12,574.9	-2,323.1	-293.3	3.92	2.98	-2.55	-7.1	10.2
15,080.0	90.30	179.80	12,575.1	-2,417.1	-292.0	1.53	0.85	1.28	-8.0	10.8
15,174.0	86.90	179.10	12,577.4	-2,511.1	-291.1	3.69	-3.62	-0.74	-6.8	11.0
15,268.0	90.60	181.40	12,579.5	-2,605.0	-291.5	4.63	3.94	2.45	-5.9	9.8
15,361.0	90.30	187.00	12,578.7	-2,697.7	-298.3	6.03	-0.32	6.02	-7.8	2.3
15,455.0	88.90	192.00	12,579.4	-2,790.4	-313.8	5.52	-1.49	5.32	-8.4	-13.7
15,549.0	88.90	188.90	12,581.2	-2,882.8	-330.9	3.30	0.00	-3.30	-7.7	-31.6
15,596.0	87.70	182.60	12,582.6	-2,929.5	-335.6	13.64	-2.55	-13.40	-6.8	-36.6
15,642.0	88.00	181.10	12,584.3	-2,975.5	-337.1	3.32	0.65	-3.26	-5.5	-38.5
15,689.0	87.80	176.70	12,586.0	-3,022.4	-336.2	9.37	-0.43	-9.36	-4.3	-37.9
15,736.0	89.00	175.10	12,587.3	-3,069.3	-332.8	4.25	2.55	-3.40	-3.6	-34.9



EOG Resources, Inc.

PVA

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Local Co-ordinate Reference: Well #703H
TVD Reference: KB = 25' @ 3348.0usft (H&P 647)
MD Reference: KB = 25' @ 3348.0usft (H&P 647)
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)	
15,830.0	86.80	174.20	12,590.8	-3,162.8	-324.1	2.53	-2.34	-0.96	-1.2	-26.9	
15,923.0	86.10	172.40	12,596.5	-3,255.0	-313.2	2.07	-0.75	-1.94	3.4	-16.7	
16,017.0	89.20	171.90	12,600.4	-3,348.0	-300.4	3.34	3.30	-0.53	5.9	-4.6	
16,110.0	92.20	175.40	12,599.3	-3,440.4	-290.1	4.96	3.23	3.76	3.6	5.0	
16,204.0	91.40	178.30	12,596.3	-3,534.2	-285.0	3.20	-0.85	3.09	-0.6	9.4	
16,298.0	90.70	179.40	12,594.6	-3,628.2	-283.1	1.39	-0.74	1.17	-3.5	10.6	
16,391.0	88.80	180.80	12,595.0	-3,721.2	-283.2	2.54	-2.04	1.51	-4.2	9.8	
16,485.0	87.50	181.50	12,598.0	-3,815.1	-285.1	1.57	-1.38	0.74	-2.4	7.2	
16,579.0	84.90	180.60	12,604.3	-3,908.9	-286.8	2.93	-2.77	-0.96	2.6	4.7	
16,672.0	89.50	181.20	12,608.8	-4,001.7	-288.3	4.99	4.95	0.65	6.0	2.6	
16,766.0	86.60	179.70	12,612.0	-4,095.6	-289.0	3.47	-3.09	-1.60	8.0	1.1	
16,860.0	90.50	181.70	12,614.4	-4,189.6	-290.2	4.66	4.15	2.13	9.2	-0.7	
16,952.0	90.30	182.50	12,613.7	-4,281.5	-293.6	0.90	-0.22	0.87	7.4	-4.8	
17,039.0	86.50	178.70	12,616.2	-4,368.5	-294.5	6.18	-4.37	-4.37	8.7	-6.3	
17,133.0	87.10	178.10	12,621.4	-4,462.3	-291.9	0.90	0.64	-0.64	12.8	-4.4	
17,227.0	87.60	178.10	12,625.8	-4,556.1	-288.7	0.53	0.53	0.00	16.0	-2.0	
17,321.0	91.10	179.50	12,626.8	-4,650.1	-286.8	4.01	3.72	1.49	15.9	-0.8	
17,415.0	89.20	180.00	12,626.6	-4,744.1	-286.4	2.09	-2.02	0.53	14.6	-1.0	
17,508.0	87.40	179.60	12,629.3	-4,837.0	-286.0	1.98	-1.94	-0.43	16.2	-1.4	
17,602.0	90.70	179.30	12,630.9	-4,931.0	-285.1	3.53	3.51	-0.32	16.6	-1.2	
17,696.0	89.40	178.30	12,630.8	-5,025.0	-283.2	1.74	-1.38	-1.06	15.4	0.0	
17,790.0	90.90	178.00	12,630.6	-5,118.9	-280.1	1.63	1.60	-0.32	14.1	2.4	
17,884.0	92.40	178.30	12,627.9	-5,212.8	-277.1	1.63	1.60	0.32	10.2	4.7	
17,978.0	90.40	178.10	12,625.6	-5,306.7	-274.1	2.14	-2.13	-0.21	6.8	6.9	
18,072.0	89.20	178.00	12,625.9	-5,400.7	-271.0	1.28	-1.28	-0.11	6.0	9.4	
18,165.0	89.60	177.80	12,626.9	-5,493.6	-267.5	0.48	0.43	-0.22	5.9	12.1	
18,259.0	88.60	177.40	12,628.3	-5,587.5	-263.6	1.15	-1.06	-0.43	6.2	15.4	



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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)
18,353.0	90.10	179.20	12,629.4	-5,681.5	-260.8	2.49	1.60	1.91	6.1	17.5
18,447.0	89.00	178.00	12,630.1	-5,775.4	-258.5	1.73	-1.17	-1.28	5.8	19.1
18,540.0	89.10	180.90	12,631.7	-5,868.4	-257.6	3.12	0.11	3.12	6.2	19.2
18,634.0	91.30	181.90	12,631.4	-5,962.4	-259.9	2.57	2.34	1.06	4.7	16.3
18,728.0	91.30	181.80	12,629.2	-6,056.3	-263.0	0.11	0.00	-0.11	1.4	12.5
18,822.0	91.20	181.20	12,627.2	-6,150.2	-265.4	0.65	-0.11	-0.64	-1.9	9.3
18,916.0	90.50	179.50	12,625.8	-6,244.2	-266.0	1.96	-0.74	-1.81	-4.5	8.1
19,010.0	90.30	178.40	12,625.1	-6,338.2	-264.3	1.19	-0.21	-1.17	-6.4	9.1
19,104.0	90.80	177.60	12,624.2	-6,432.1	-261.0	1.00	0.53	-0.85	-8.5	11.7
19,198.0	90.30	176.60	12,623.3	-6,526.0	-256.2	1.19	-0.53	-1.06	-10.6	15.7
19,291.0	90.50	178.20	12,622.7	-6,618.9	-252.0	1.73	0.22	1.72	-12.5	19.3
19,385.0	90.60	178.30	12,621.8	-6,712.9	-249.1	0.15	0.11	0.11	-14.6	21.4
19,479.0	87.30	179.70	12,623.5	-6,806.8	-247.5	3.81	-3.51	1.49	-14.1	22.4
19,572.0	87.20	178.80	12,628.0	-6,899.7	-246.3	0.97	-0.11	-0.97	-10.9	22.9
19,666.0	91.80	179.40	12,628.8	-6,993.7	-244.8	4.94	4.89	0.64	-11.3	23.7
19,760.0	91.70	178.40	12,625.9	-7,087.6	-243.0	1.07	-0.11	-1.06	-15.4	24.8
19,830.0	90.20	177.10	12,624.7	-7,157.5	-240.3	2.84	-2.14	-1.86	-17.5	27.0
Last MWD Survey										
19,890.0	90.20	177.10	12,624.5	-7,217.5	-237.2	0.00	0.00	0.00	-18.5	29.6
Projection To Bit										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
19,830.0	12,624.7	-7,157.5	-240.3	Last MWD Survey
19,890.0	12,624.5	-7,217.5	-237.2	Projection To Bit



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Checked By: _____ Approved By: _____ Date: _____