



HOBBS OCD
JUN 25 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Javelina 30 Fed

#701H

OH

Design: OH

Midland PVA

06 April, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3342.0usft
Site:	Javelina 30 Fed	MD Reference:	KB = 25 @ 3342.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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	Javelina 30 Fed		
Site Position:		Northing:	401,179.00 usft
From:	Map	Easting:	794,522.00 usft
Position Uncertainty:	0.0 usft	Spot Radius:	13-3/16 "
		Latitude:	32° 6' 1.013 N
		Longitude:	103° 30' 56.515 W
		Grid Convergence:	0.43 "

Well	#701H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			usft
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	11/12/2018	(°)
			Dip Angle
			(°)
			Field Strength
			(nT)
			6.77
			59.94
			47,726.87068987

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
			(°)
			357.95

Survey Program	Date 4/8/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
225.0	20,451.0	Total MWD (OH)	MWD
			OWSG MWD - Standard



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Survey											
MD (usft)	Inc (")	Asl (azimuth) (")	TVD (usft)	NS (usft)	EW (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	0.0
225.0	1.40	201.80	225.0	-2.6	-1.0	0.82	0.62	0.00	-2.7	0.0	
311.0	1.60	193.20	310.9	-4.7	-1.7	0.35	0.23	-10.12	-5.0	-0.8	
400.0	1.40	190.90	399.9	-7.0	-2.2	0.23	-0.22	-2.58	-7.3	-0.8	
488.0	1.40	178.70	487.9	-9.1	-2.4	0.34	0.00	-13.86	-9.0	-2.8	
583.0	1.50	168.80	582.9	-11.5	-2.1	0.28	0.11	-10.42	-10.9	-4.3	
678.0	2.00	162.80	675.8	-14.2	-1.4	0.57	0.54	-6.45	-13.2	-5.5	
863.0	2.70	147.90	862.7	-21.1	1.9	0.49	0.37	-7.97	-18.9	-9.6	
956.0	2.80	148.90	955.6	-24.8	4.3	0.12	0.11	-1.08	-23.2	-9.9	
1,086.0	2.60	143.80	1,085.4	-29.9	7.8	0.19	-0.15	-2.31	-28.7	-11.3	
1,144.0	2.20	147.30	1,143.4	-31.9	9.2	0.73	-0.69	5.88	-31.8	-9.5	
1,237.0	0.30	250.40	1,236.3	-33.5	9.9	2.46	-2.04	110.86	-1.9	34.8	
1,423.0	0.20	158.60	1,422.3	-33.9	9.6	0.20	-0.05	-49.35	-35.1	-3.5	
1,517.0	0.30	126.40	1,516.3	-34.2	9.8	0.18	0.11	-34.26	-28.2	-21.7	
1,611.0	0.30	152.10	1,610.3	-34.6	10.1	0.14	0.00	27.34	-35.3	-7.2	
1,800.0	0.30	182.10	1,799.3	-35.5	10.4	0.08	0.00	15.87	-35.1	11.7	
1,988.0	0.40	224.50	1,987.3	-36.5	8.9	0.14	0.05	22.55	-19.1	32.6	
2,082.0	0.50	202.40	2,081.3	-37.1	9.5	0.21	0.11	-23.51	-30.7	22.9	
2,177.0	0.40	184.80	2,176.3	-37.8	9.3	0.18	-0.11	-18.53	-36.9	12.4	
2,271.0	0.40	180.80	2,270.3	-38.5	9.3	0.03	0.00	-4.26	-38.3	9.8	
2,365.0	0.60	171.70	2,364.3	-39.3	9.3	0.23	0.21	-9.68	-40.2	3.8	
2,459.0	0.70	165.30	2,458.3	-40.3	9.6	0.13	0.11	-6.81	-41.4	-1.0	
2,554.0	0.60	144.90	2,553.3	-41.3	10.0	0.26	-0.11	-21.47	-39.5	-15.6	
2,648.0	0.70	117.00	2,647.3	-41.9	10.8	0.35	0.11	-29.68	-28.7	-32.5	
2,743.0	1.10	101.80	2,742.3	-42.4	12.2	0.49	0.42	-16.00	-20.6	-39.0	
2,837.0	1.30	97.30	2,836.3	-42.7	14.1	0.24	0.21	-4.79	-19.5	-40.6	
2,931.0	1.40	87.70	2,930.2	-42.8	16.3	0.28	0.11	-10.21	-14.6	-43.4	



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 Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,025.0	1.80	85.60	3,024.2	-42.6	19.0	0.43	0.43	-2.23	-15.6	-44.0	
3,120.0	2.30	80.70	3,119.1	-42.2	22.3	0.56	0.53	-5.16	-15.2	-45.3	
3,214.0	3.10	81.10	3,213.0	-41.5	26.7	0.85	0.85	0.43	-19.9	-45.2	
3,308.0	2.30	74.30	3,308.9	-40.6	31.0	0.92	-0.85	-7.23	-18.9	-47.5	
3,402.0	2.20	70.90	3,400.9	-39.5	34.6	0.18	-0.11	-3.62	-19.7	-48.7	
3,497.0	2.80	73.90	3,495.8	-38.3	38.5	0.65	0.63	3.16	-26.4	-47.5	
3,591.0	1.90	76.60	3,589.7	-37.3	42.2	0.96	-0.96	2.87	-32.4	-46.1	
3,686.0	0.60	272.80	3,684.7	-36.9	43.3	2.61	-1.37	-172.42	45.0	34.7	
3,780.0	0.30	269.20	3,778.7	-36.9	42.5	0.32	-0.32	-3.83	42.0	37.5	
3,875.0	0.20	1.70	3,873.7	-36.7	42.3	0.39	-0.11	97.37	35.4	-43.4	
3,969.0	0.90	348.80	3,967.7	-35.8	42.1	0.75	0.74	-13.72	43.3	-34.4	
4,064.0	1.40	17.80	4,062.6	-34.0	42.4	0.79	0.53	30.53	19.4	-50.7	
4,159.0	1.10	288.50	4,157.6	-32.6	41.8	1.86	-0.32	-94.00	50.0	17.6	
4,254.0	1.40	289.00	4,252.6	-31.9	39.9	0.32	0.32	0.53	48.1	17.2	
4,349.0	1.20	300.20	4,347.6	-31.0	37.9	0.34	-0.21	11.79	48.4	7.8	
4,443.0	0.50	25.10	4,441.6	-30.2	37.2	1.34	-0.74	90.32	11.5	-46.5	
4,537.0	1.00	161.40	4,535.6	-30.6	37.7	1.49	0.53	145.00	-41.0	26.0	
4,632.0	1.40	171.40	4,630.6	-32.5	38.1	0.47	0.42	10.53	-37.9	32.8	
4,728.0	0.60	185.60	4,724.5	-34.1	38.2	0.88	-0.85	15.11	-30.3	41.4	
4,821.0	1.20	282.80	4,819.5	-34.4	37.2	1.48	0.63	102.32	43.9	25.3	
4,916.0	0.60	187.80	4,914.5	-34.7	36.1	1.36	-0.63	-89.47	-22.0	45.0	
5,010.0	0.80	179.50	5,008.5	-35.6	36.0	0.20	0.00	-19.47	-35.9	35.6	
5,105.0	0.40	160.30	5,103.5	-36.5	36.0	0.21	-0.21	0.84	-36.3	36.2	
5,199.0	0.10	271.30	5,197.5	-36.8	35.9	0.44	-0.32	96.81	36.7	36.0	
5,294.0	0.30	315.40	5,292.5	-36.6	35.6	0.25	0.21	46.42	51.1	0.3	
5,388.0	0.50	322.70	5,386.5	-36.1	35.2	0.22	0.21	7.77	50.1	-6.1	
5,483.0	0.50	336.40	5,481.5	-35.4	34.8	0.13	0.00	14.42	46.4	-17.7	



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5,577.0	0.60	339.30	5,575.5	-34.6	34.4	0.11	0.11	3.09	44.5	-20.0	
5,671.0	0.90	344.60	5,669.5	-33.4	34.1	0.33	0.32	5.64	41.2	-24.0	
5,766.0	0.90	342.70	5,764.5	-32.0	33.7	0.03	0.00	-2.00	40.5	-22.6	
5,860.0	0.90	338.20	5,858.5	-30.6	33.2	0.08	0.00	-4.79	40.7	-19.4	
5,955.0	1.00	342.30	5,953.5	-28.1	32.6	0.13	0.11	4.32	37.6	-22.2	
6,049.0	1.30	341.60	6,047.4	-27.3	32.0	0.32	0.32	-0.74	36.0	-21.8	
6,143.0	1.50	335.00	6,141.4	-25.2	31.2	0.27	0.21	-7.02	36.0	-17.6	
6,237.0	1.50	333.40	6,235.4	-23.0	30.1	0.04	0.00	-1.70	34.0	-16.7	
6,331.0	1.10	336.20	6,329.4	-21.0	29.2	0.43	-0.43	2.98	31.0	-18.2	
6,425.0	1.20	331.70	6,423.3	-19.3	28.4	0.14	0.11	-4.79	30.5	-15.8	
6,519.0	1.30	330.60	6,517.3	-17.5	27.4	0.11	0.11	-1.17	28.7	-15.2	
6,708.0	1.50	328.70	6,706.3	-13.6	25.0	0.11	0.11	-1.01	24.6	-14.4	
6,803.0	1.50	330.50	6,801.2	-11.4	23.8	0.05	0.00	1.89	21.6	-15.1	
6,898.0	1.60	329.00	6,896.2	-9.2	22.5	0.11	0.11	-1.56	19.5	-14.5	
6,992.0	1.70	325.40	6,990.1	-6.9	21.0	0.15	0.11	-3.83	17.6	-13.4	
7,086.0	1.60	320.80	7,084.1	-4.8	19.4	0.18	-0.11	-4.89	15.9	-12.0	
7,180.0	1.60	316.50	7,178.1	-2.8	17.7	0.13	0.00	-4.57	14.2	-10.9	
7,274.0	1.50	310.60	7,272.0	-1.0	15.8	0.20	-0.11	-6.28	12.7	-9.5	
7,368.0	1.20	303.70	7,366.0	0.3	14.1	0.36	-0.32	-7.34	11.5	-8.1	
7,462.0	1.10	285.80	7,460.0	1.1	12.4	0.39	-0.11	-19.04	11.6	-4.4	
7,557.0	1.30	285.80	7,555.0	1.6	10.5	0.21	0.21	0.11	9.6	-4.5	
7,651.0	1.30	279.60	7,648.9	2.1	8.4	0.15	0.00	-6.70	7.9	-3.5	
7,745.0	1.30	271.90	7,742.9	2.3	6.3	0.19	0.00	-8.19	6.2	-2.5	
7,839.0	1.20	255.10	7,836.9	2.1	4.3	0.40	-0.11	-17.87	4.7	-0.9	
7,934.0	1.30	249.40	7,931.9	1.5	2.3	0.17	0.11	-6.00	2.7	-0.6	
8,122.0	1.50	252.60	8,119.8	0.0	-2.0	0.11	0.11	1.70	-2.0	-0.6	
8,216.0	1.40	254.40	8,213.8	-0.7	-4.3	0.12	-0.11	1.91	-4.4	-0.5	



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8,310.0	1.40	247.90	8,307.8	-1.4	-8.5	0.17	0.00	-8.91	-6.6	-1.1	
8,404.0	1.50	246.00	8,401.7	-2.4	-8.7	0.12	0.11	-2.02	-8.9	-1.4	
8,499.0	1.50	247.80	8,496.7	-3.3	-11.0	0.05	0.00	1.89	-11.4	-1.1	
8,593.0	1.50	237.80	8,590.7	-4.5	-13.2	0.28	0.00	-10.64	-13.5	-3.2	
8,688.0	1.10	230.20	8,685.6	-5.7	-14.9	0.46	-0.42	-8.00	-15.1	-5.2	
8,782.0	1.30	232.30	8,779.8	-6.9	-16.4	0.22	0.21	2.23	-17.2	-4.6	
8,876.0	1.20	234.70	8,873.6	-8.2	-18.1	0.12	-0.11	2.55	-19.5	-3.8	
8,970.0	1.10	238.60	8,967.6	-9.2	-19.7	0.14	-0.11	4.15	-21.6	-2.4	
9,064.0	1.10	239.00	9,061.8	-10.1	-21.2	0.01	0.00	0.43	-23.4	-2.2	
9,158.0	1.20	236.20	9,155.5	-11.1	-22.8	0.12	0.11	-2.98	-25.1	-3.4	
9,253.0	1.10	238.10	9,250.5	-12.2	-24.4	0.11	-0.11	2.00	-27.1	-2.6	
9,347.0	0.90	245.60	9,344.5	-13.0	-25.8	0.25	-0.21	7.98	-28.9	1.1	
9,442.0	0.80	250.60	9,439.5	-13.5	-27.1	0.13	-0.11	5.26	-30.1	3.7	
9,536.0	0.90	271.00	9,533.5	-13.7	-28.5	0.34	0.11	21.70	-28.3	14.2	
9,630.0	1.00	272.20	9,627.5	-13.6	-30.1	0.11	0.11	1.28	-29.5	14.8	
9,724.0	0.80	290.50	9,721.5	-13.4	-31.5	0.37	-0.21	19.47	-24.8	23.6	
9,819.0	0.70	270.90	9,816.5	-13.1	-32.7	0.29	-0.11	-20.63	-32.5	13.7	
9,913.0	0.60	314.90	9,910.5	-12.8	-33.6	0.53	-0.11	46.81	-14.8	32.8	
10,007.0	1.00	325.30	10,004.4	-11.8	-34.4	0.45	0.43	11.06	-9.9	35.0	
10,101.0	1.50	337.30	10,098.4	-10.0	-35.4	0.60	0.53	12.77	-4.5	36.5	
10,195.0	2.00	343.90	10,192.4	-7.2	-36.3	0.57	0.53	7.02	-3.1	36.9	
10,290.0	2.00	333.50	10,287.3	-4.2	-37.5	0.38	0.00	-10.95	-13.0	35.4	
10,384.0	2.20	329.80	10,381.3	-1.1	-39.1	0.25	0.21	-3.83	-18.6	34.4	
10,478.0	2.00	317.50	10,475.2	1.6	-41.2	0.53	-0.21	-13.19	-29.0	29.2	
10,573.0	1.90	316.50	10,570.1	4.0	-43.4	0.11	-0.11	-1.05	-32.7	28.7	
10,667.0	1.70	318.50	10,664.1	6.2	-45.4	0.22	-0.21	2.13	-34.7	29.9	
10,762.0	1.80	279.90	10,759.1	7.5	-47.8	1.22	0.11	-40.63	-48.3	0.8	



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10,856.0	1.80	279.90	10,853.0	8.0	-50.7	0.00	0.00	0.00	-51.3	0.8	
10,950.0	1.00	225.80	10,947.0	7.7	-52.7	1.55	-0.85	-57.55	-32.4	-42.2	
11,045.0	1.20	204.50	11,042.0	6.2	-53.7	0.48	0.21	-22.42	-16.6	-51.4	
11,140.0	1.00	210.20	11,136.9	4.6	-54.5	0.24	-0.21	6.00	-23.5	-49.4	
11,235.0	1.70	238.20	11,231.9	3.1	-56.2	0.99	0.74	29.47	-46.1	-32.2	
11,329.0	1.60	247.10	11,325.9	1.9	-58.6	0.29	-0.11	9.47	-53.2	-24.5	
11,424.0	1.40	256.10	11,420.8	1.1	-60.9	0.32	-0.21	9.47	-58.9	-19.7	
11,519.0	1.00	271.30	11,515.8	0.8	-62.9	0.53	-0.42	16.00	-62.9	0.6	
11,613.0	1.10	283.00	11,609.8	1.0	-64.6	0.25	0.11	12.45	-63.1	13.5	
11,708.0	1.20	277.50	11,704.8	1.4	-66.4	0.16	0.11	-5.79	-66.0	7.3	
11,802.0	0.90	282.20	11,798.8	1.6	-68.1	0.33	-0.32	5.00	-66.9	12.8	
11,932.0	0.50	254.50	11,928.8	1.7	-69.7	0.39	-0.31	-21.31	-68.7	-20.3	
12,027.0	0.40	340.60	12,023.8	1.9	-70.2	0.65	-0.11	90.63	-25.1	65.6	
12,074.0	3.30	6.10	12,070.7	3.4	-70.1	6.26	6.17	54.26	4.1	70.0	
12,122.0	9.90	343.80	12,118.4	8.8	-71.1	14.50	13.75	-46.46	-24.6	65.7	
12,217.0	19.60	359.50	12,210.2	32.6	-73.5	10.95	10.21	16.53	-10.3	65.3	
12,310.0	31.00	356.20	12,294.1	72.2	-75.3	12.35	12.26	-3.55	-16.4	53.6	
12,405.0	34.20	355.30	12,374.2	123.3	-79.1	3.41	3.37	-0.95	-11.3	39.5	
12,498.0	46.30	351.60	12,445.0	182.8	-86.1	13.26	13.01	-3.98	-1.5	25.1	
12,593.0	64.00	347.80	12,489.1	259.1	-100.3	18.91	18.63	-4.00	4.3	14.2	
12,640.0	72.40	346.10	12,516.5	301.6	-110.2	18.18	17.87	-3.62	4.0	10.4	
12,690.0	82.90	346.50	12,527.2	349.2	-120.9	21.52	21.00	4.80	0.7	5.7	
12,785.0	88.70	352.30	12,534.2	442.5	-136.6	7.29	6.11	4.00	-4.7	-8.4	
12,880.0	91.50	352.30	12,534.0	536.7	-149.4	2.95	2.95	0.00	-4.3	-24.2	
12,974.0	90.00	352.00	12,532.8	629.8	-162.2	1.63	-1.60	-0.32	-4.9	-35.1	
13,162.0	90.20	350.60	12,532.5	815.6	-190.6	0.75	0.11	-0.74	-3.7	-40.0	
13,256.0	88.80	352.50	12,533.2	908.6	-204.5	2.45	-1.38	2.02	-2.2	-35.7	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Javelina 30 Fed
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 3342.0usft
 MD Reference: KB = 25 @ 3342.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
13,350.0	89.40	352.50	12,534.8	1,001.8	-218.7	0.53	0.53	0.00	0.0	-28.4	
13,445.0	89.90	355.80	12,535.2	1,096.2	-226.6	3.31	0.53	3.26	1.2	-19.5	
13,539.0	90.00	358.00	12,535.2	1,190.1	-231.8	2.58	0.11	2.55	2.0	-14.7	
13,633.0	91.00	358.10	12,534.4	1,284.0	-235.0	1.07	1.06	0.11	1.9	-12.0	
13,728.0	90.70	359.40	12,533.0	1,379.0	-237.1	1.40	-0.32	1.37	1.3	-10.4	
13,823.0	89.10	0.30	12,533.2	1,474.0	-237.3	1.93	-1.68	0.95	2.2	-10.7	
13,917.0	89.10	0.50	12,534.7	1,568.0	-238.7	0.21	0.00	0.21	4.4	-11.8	
14,011.0	90.10	0.10	12,535.3	1,662.0	-238.2	1.15	1.06	-0.43	5.7	-12.8	
14,105.0	89.40	359.20	12,535.7	1,756.0	-238.8	1.21	-0.74	-0.98	6.9	-12.7	
14,199.0	89.10	358.20	12,537.0	1,849.9	-238.9	1.11	-0.32	-1.06	8.8	-11.0	
14,293.0	91.40	358.20	12,536.5	1,943.9	-241.8	2.45	2.45	0.00	9.1	-8.5	
14,388.0	89.20	358.90	12,536.1	2,036.8	-244.2	2.48	-2.37	0.75	9.4	-8.7	
14,481.0	88.80	359.70	12,537.7	2,131.8	-245.4	0.94	-0.42	0.84	11.7	-8.0	
14,575.0	90.30	359.70	12,538.5	2,225.8	-245.8	1.60	1.60	0.00	13.2	-8.0	
14,669.0	89.20	359.10	12,538.9	2,319.8	-246.8	1.33	-1.17	-0.64	14.3	-5.5	
14,763.0	91.70	359.00	12,539.1	2,413.8	-248.4	2.66	2.66	-0.11	14.3	-4.4	
14,857.0	90.80	359.30	12,536.1	2,507.7	-249.8	1.01	-0.86	0.32	12.8	-3.7	
14,951.0	90.90	0.20	12,534.7	2,601.7	-250.2	0.96	0.11	0.96	11.9	-4.0	
15,140.0	93.00	1.40	12,528.3	2,790.6	-247.6	1.28	1.11	0.63	6.5	-8.0	
15,234.0	90.00	0.00	12,525.8	2,884.5	-246.4	3.52	-3.19	-1.49	4.8	-9.8	
15,328.0	88.20	0.20	12,527.3	2,978.5	-246.2	1.93	-1.91	0.21	6.6	-10.7	
15,422.0	89.30	1.60	12,529.3	3,072.5	-244.8	1.89	1.17	1.49	9.2	-12.8	
15,516.0	90.70	3.30	12,529.3	3,166.4	-240.8	2.34	1.49	1.81	9.7	-17.5	
15,611.0	88.60	1.20	12,529.9	3,261.3	-237.0	3.13	-2.21	-2.21	10.8	-21.9	
15,705.0	90.10	357.10	12,531.0	3,355.3	-238.4	4.64	1.60	-4.36	12.4	-21.2	
15,799.0	91.40	356.70	12,529.7	3,449.1	-243.5	1.45	1.38	-0.43	11.7	-18.8	
15,893.0	90.80	357.50	12,527.9	3,543.0	-248.3	1.06	-0.64	0.85	10.4	-12.7	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Javelina 30 Fed
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 3342.0usft
 MD Reference: KB = 25 @ 3342.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Asl (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,987.0	91.30	357.20	12,526.2	3,636.9	-252.6	0.62	0.53	-0.32	9.2	-9.1
16,082.0	85.70	356.00	12,528.7	3,731.6	-258.2	6.03	-5.89	-1.26	12.3	-4.1
16,176.0	91.60	359.00	12,530.9	3,825.5	-262.3	7.04	6.28	3.19	15.0	-0.7
16,271.0	89.10	359.20	12,530.3	3,920.4	-263.8	2.64	-2.63	0.21	15.0	0.1
16,365.0	88.30	358.80	12,532.5	4,014.4	-265.5	0.95	-0.85	-0.43	17.6	1.1
16,554.0	90.80	359.50	12,533.9	4,203.4	-268.3	1.37	1.32	0.37	20.2	2.5
16,648.0	90.50	359.30	12,532.9	4,297.3	-269.2	0.38	-0.32	-0.21	19.6	2.8
16,742.0	92.10	1.10	12,530.7	4,391.3	-268.9	2.56	1.70	1.91	18.0	1.8
16,837.0	90.70	0.10	12,528.4	4,486.3	-267.9	1.81	-1.47	-1.05	16.2	0.1
16,931.0	87.10	359.10	12,530.2	4,580.2	-268.6	3.97	-3.83	-1.06	16.6	0.1
17,025.0	85.70	358.00	12,536.1	4,674.0	-271.0	1.89	-1.49	-1.17	25.0	1.8
17,119.0	89.30	357.40	12,540.2	4,767.8	-274.7	3.88	3.83	-0.84	29.6	4.9
17,213.0	89.80	357.20	12,541.0	4,861.7	-279.1	0.57	0.53	-0.21	30.9	8.6
17,308.0	88.60	356.40	12,542.3	4,956.6	-284.5	1.52	-1.26	-0.84	32.8	13.2
17,402.0	90.40	356.50	12,543.1	5,050.4	-280.3	1.92	1.91	0.11	34.1	18.4
17,496.0	92.60	0.00	12,540.7	5,144.3	-283.1	4.40	2.34	3.72	32.2	20.6
17,591.0	94.60	2.50	12,534.7	5,239.1	-281.1	3.37	2.11	2.63	26.7	17.9
17,685.0	92.30	1.80	12,529.0	5,332.8	-287.6	2.56	-2.45	-0.74	21.6	13.7
17,780.0	93.90	1.90	12,523.9	5,427.6	-284.5	1.69	1.68	0.11	17.0	9.9
17,874.0	91.40	2.10	12,519.6	5,521.5	-281.2	2.67	-2.66	0.21	13.2	5.9
17,968.0	88.10	1.00	12,520.0	5,615.4	-278.7	3.70	-3.51	-1.17	14.1	2.7
18,063.0	87.20	359.60	12,523.9	5,710.3	-278.2	1.75	-0.95	-1.47	18.5	1.5
18,157.0	89.40	359.80	12,526.6	5,804.3	-278.7	2.35	2.34	0.21	21.9	1.4
18,252.0	93.70	0.40	12,524.1	5,899.2	-278.5	4.57	4.53	0.63	19.8	0.5
18,346.0	92.80	0.80	12,518.7	5,993.1	-277.5	1.05	-0.98	0.43	15.0	-1.2
18,441.0	92.70	1.00	12,514.2	6,087.9	-276.0	0.24	-0.11	0.21	11.0	-3.3
18,535.0	93.70	1.30	12,508.9	6,181.8	-274.1	1.11	1.06	0.32	6.3	-5.9



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Javelina 30 Fed
 Well: #701H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25 @ 3342.0usft
 MD Reference: KB = 25 @ 3342.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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)	
18,830.0	91.80	0.80	12,504.3	6,276.6	-272.4	1.97	-1.89	-0.53	2.2	-8.3	
18,724.0	91.80	359.80	12,501.3	6,370.6	-271.8	1.07	-0.11	-1.08	-0.3	-8.5	
18,818.0	90.00	0.80	12,499.8	6,465.6	-271.4	2.17	-1.88	1.05	-1.3	-10.7	
18,813.0	90.30	1.30	12,498.5	6,559.6	-269.7	0.62	0.32	0.53	-1.0	-13.1	
19,008.0	91.60	2.20	12,488.0	6,654.5	-268.8	1.66	1.37	0.95	-2.0	-16.7	
19,102.0	90.60	1.40	12,496.1	6,748.4	-263.8	1.36	-1.08	-0.85	-3.3	-20.3	
19,197.0	92.10	2.10	12,493.9	6,843.4	-260.9	1.74	1.58	0.74	-5.0	-23.9	
19,280.0	89.00	359.90	12,493.0	6,936.3	-259.3	4.09	-3.33	-2.37	-5.4	-26.2	
19,385.0	89.60	357.20	12,484.2	7,031.3	-261.7	2.81	0.63	-2.84	-3.7	-24.4	
19,480.0	90.50	357.40	12,494.1	7,126.2	-266.2	0.87	0.95	0.21	-3.3	-20.6	
19,574.0	93.30	358.10	12,491.0	7,220.0	-269.9	3.07	2.98	0.74	-5.9	-17.6	
19,669.0	93.10	358.10	12,485.7	7,314.8	-273.0	0.21	-0.21	0.00	-10.6	-15.2	
19,763.0	91.60	357.70	12,481.8	7,408.7	-276.5	1.65	-1.60	-0.43	-13.9	-12.4	
19,858.0	91.10	357.50	12,479.6	7,503.6	-280.5	0.57	-0.53	-0.21	-15.6	-9.1	
19,952.0	89.90	357.50	12,476.8	7,597.5	-284.6	1.28	-1.28	0.00	-15.9	-5.7	
20,047.0	91.70	357.60	12,477.4	7,692.4	-288.6	1.90	1.89	0.11	-16.7	-2.3	
20,141.0	89.40	357.30	12,476.5	7,786.3	-292.8	2.47	-2.45	-0.32	-17.1	1.2	
20,235.0	89.90	357.20	12,477.1	7,880.2	-297.3	0.54	0.53	-0.11	-16.0	5.0	
20,330.0	91.40	357.50	12,476.0	7,975.1	-301.7	1.61	1.58	0.32	-16.5	8.7	
20,451.0	91.40	357.50	12,473.1	8,095.9	-307.0	0.00	0.00	0.00	-18.8	13.1	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #701H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3342.0usft
Site:	Javelina 30 Fed	MD Reference:	KB = 25 @ 3342.0usft
Well:	#701H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,048.0	12,042.8	2.2	-70.2	KOP, MD:12048.0', TVD:12042.8', N/S:2.2', E/W:-70.2', INC:1.55
12,786.6	12,534.2	444.1	-136.9	LL Crossing, MD:12786.6', TVD:12534.2', N/S:444.1', E/W:-136.9', INC:88.75
12,887.3	12,533.8	543.9	-150.3	FTP Crossing, MD:12887.3', TVD:12533.8', N/S:543.9', E/W:-150.3', INC:91.38
20,330.0	12,476.0	7,975.1	-301.7	Last MWD Survey (MD=20330.0')
20,451.0	12,473.1	8,095.9	-307.0	Projection to Bit (MD=20451.0')

Checked By: _____ Approved By: _____ Date: _____



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

Lea County, NM (NAD 83 NME)

Javelina 30 Fed

#701H

Plan #2



To convert a Magnetic Direction to a Grid Direction, Add 6.33°
To convert a Magnetic Direction to a True Direction, Add 6.77° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

WELL DETAILS: #701H

3317.0
KB = 25 @ 3342.00ft
Northing 401179.00 Easting 794522.00 32° 6' 1.513 N Longitude 103° 30' 55.515 W Slope

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	12061.5	0.00	0.00	12061.5	0.0	0.0	0.00	0.00	0.0	
3	12815.2	90.44	341.80	12539.0	457.1	-150.3	12.00	341.80	452.1	
4	13412.1	90.44	359.71	12534.3	1043.8	-245.8	3.00	89.93	1051.9	
5	14756.8	90.44	359.71	12524.0	2398.5	-252.7	0.00	0.00	2398.0	TGT#1(Javelina 30 fed #701H)
6	14765.3	90.32	359.59	12523.9	2398.9	-252.7	2.00	-134.30	2404.4	
7	20623.6	90.32	359.59	12491.0	8255.0	-295.0	0.00	0.00	8260.3	PBHL(Javelina 30 fed #701H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
Brushy Top(Javelina 30 fed #701H)	7934.0	0.0	0.0	401179.00	794522.00	Rectangle (Sides: 1160.0 W100.0)
PBHL(Javelina 30 fed #701H)	12491.0	8255.0	-295.0	409434.00	794227.00	Rectangle (Sides: 1.0 W60.0)
TGT#1(Javelina 30 fed #701H)	12524.0	2398.5	-252.7	402567.50	794268.34	Point
FTP(Javelina 30 fed #701H)	12539.0	543.0	-233.0	401722.00	794293.00	Point

