eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Javelina 30 Fed
#702H
OH

Design: OH

Midland PVA

29 April, 2019

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #702H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3342.0usft
Site:	Javelina 30 Fed	**MD Reference:**	KB = 25 @ 3342.0usft
Well:	#702H	**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	**Latitude:**	32° 6' 1.013 N
From:	Map	**Easting:**	794,522.00 usft	**Longitude:**	103° 30' 56.515 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.43 °

Well #702H

Well Position	**+N/-S**	0.0 usft	**Northing:**	401,179.00 usft	**Latitude:**	32° 6' 1.010 N
	+E/-W	0.0 usft	**Easting:**	794,555.00 usft	**Longitude:**	103° 30' 56.132 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,317.0 usft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	11/12/2018	6.77	59.94	47,726.88134875

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	2.25

Survey Program **Date** 4/26/2019

From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
282.0	20,826.0	Total MWD (OH)	MWD	OWSG MWD - Standard

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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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
282.0	0.90	161.50	282.0	-2.1	0.7	0.32	0.32	0.00	-2.2	0.0
340.0	0.90	157.90	340.0	-3.0	1.0	0.10	0.00	-6.21	-3.1	-0.2
400.0	1.00	147.10	400.0	-3.8	1.5	0.34	0.17	-18.00	-4.0	-0.8
458.0	1.00	143.20	458.0	-4.7	2.1	0.12	0.00	-6.72	-5.0	-1.1
517.0	1.20	147.40	517.0	-5.6	2.7	0.37	0.34	7.12	-6.2	-0.7
614.0	1.50	138.30	613.9	-7.4	4.1	0.38	0.31	-9.38	-8.2	-1.9
770.0	2.00	149.10	769.9	-11.3	6.8	0.38	0.32	6.92	-13.2	0.1
863.0	1.60	145.40	862.8	-13.7	8.4	0.45	-0.43	-3.98	-16.1	-0.9
957.0	1.70	134.10	956.8	-15.8	10.2	0.36	0.11	-12.02	-18.3	-4.3
1,019.0	1.70	139.70	1,018.7	-17.1	11.4	0.27	0.00	9.03	-20.4	-2.4
1,081.0	1.70	127.40	1,080.7	-18.4	12.7	0.59	0.00	-19.84	-21.3	-6.9
1,237.0	2.50	119.30	1,236.6	-21.4	17.6	0.55	0.51	-5.19	-25.6	-10.1
1,330.0	3.70	127.20	1,329.5	-24.2	21.7	1.37	1.29	8.49	-29.0	-6.0
1,423.0	3.90	128.80	1,422.3	-28.0	26.6	0.24	0.22	1.72	-29.7	-5.0
1,517.0	4.00	131.50	1,516.0	-32.2	31.5	0.22	0.11	2.87	-29.8	-3.6
1,611.0	4.10	134.30	1,609.8	-36.7	36.4	0.24	0.11	2.98	-30.0	-2.5
1,705.0	3.80	134.70	1,703.6	-41.3	41.0	0.32	-0.32	0.43	-30.0	-2.7
1,800.0	3.80	136.10	1,798.4	-45.8	45.4	0.10	0.00	1.47	-29.8	-2.6
1,894.0	3.70	142.40	1,892.2	-50.4	49.4	0.45	-0.11	6.70	-29.6	-0.4
1,988.0	3.70	146.40	1,986.0	-55.3	53.0	0.27	0.00	4.26	-29.3	0.0
2,082.0	3.80	147.70	2,079.8	-60.5	56.3	0.14	0.11	1.38	-29.2	-1.2
2,177.0	3.50	130.10	2,174.6	-65.0	60.2	1.22	-0.32	-18.53	-26.8	-10.9
2,271.0	3.60	126.00	2,268.4	-68.6	64.8	0.29	0.11	-4.36	-25.2	-12.5
2,365.0	3.50	124.80	2,362.2	-72.0	69.5	0.13	-0.11	-1.28	-24.2	-12.5
2,459.0	3.70	121.60	2,456.0	-75.2	74.5	0.30	0.21	-3.40	-22.9	-13.0
2,554.0	4.00	121.00	2,550.8	-78.5	79.9	0.32	0.32	-0.63	-22.6	-12.2

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Well:	#702H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**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)
2,648.0	4.20	118.70	2,644.6	-81.9	85.7	0.28	0.21	-2.45	-22.4	-11.9
2,743.0	4.70	116.50	2,739.3	-85.3	92.3	0.56	0.53	-2.32	-22.9	-11.4
2,837.0	4.90	114.40	2,833.0	-88.6	99.4	0.28	0.21	-2.23	-24.0	-10.6
2,931.0	4.80	115.80	2,926.6	-92.0	106.6	0.16	-0.11	1.49	-25.9	-8.2
3,025.0	5.10	120.10	3,020.3	-95.8	113.7	0.51	0.32	4.57	-28.1	-4.9
3,214.0	7.00	106.80	3,208.2	-103.4	132.0	1.24	1.01	-7.04	-33.8	-7.9
3,308.0	8.50	100.80	3,301.4	-106.3	144.3	1.81	1.60	-6.38	-39.8	-8.8
3,402.0	7.70	105.30	3,394.4	-109.3	157.2	1.09	-0.85	4.79	-47.7	-2.3
3,497.0	6.30	113.60	3,488.7	-113.1	168.1	1.81	-1.47	8.74	-52.7	7.4
3,591.0	4.30	120.80	3,582.3	-116.9	175.9	2.24	-2.13	7.66	-53.5	15.6
3,686.0	3.30	165.90	3,677.1	-121.4	179.6	3.22	-1.05	47.47	-26.7	47.6
3,780.0	3.40	178.40	3,771.0	-126.8	180.4	0.78	0.11	13.30	-16.9	47.9
3,875.0	2.90	181.30	3,865.8	-132.0	180.4	0.55	-0.53	3.05	-15.5	43.7
3,969.0	1.80	155.70	3,959.8	-135.8	180.9	1.59	-1.17	-27.23	-30.5	28.9
4,064.0	2.00	116.70	4,054.7	-137.9	183.0	1.35	0.21	-41.05	-38.3	3.9
4,159.0	1.90	116.50	4,149.6	-139.3	185.9	0.11	-0.11	-0.21	-35.1	5.3
4,254.0	1.50	106.70	4,244.6	-140.4	188.5	0.52	-0.42	-10.32	-32.2	1.7
4,349.0	1.30	95.90	4,339.6	-140.8	190.8	0.35	-0.21	-11.37	-28.7	-0.9
4,443.0	2.00	98.30	4,433.5	-141.1	193.5	0.74	0.74	0.43	-26.0	3.0
4,537.0	3.70	104.10	4,527.4	-142.0	198.1	1.85	1.81	6.30	-24.1	9.6
4,632.0	4.70	105.50	4,622.2	-143.8	204.8	1.06	1.05	1.47	-24.8	13.0
4,726.0	2.90	128.00	4,716.0	-146.3	210.4	2.45	-1.91	23.94	-17.4	23.2
4,821.0	4.30	138.60	4,810.8	-150.5	214.6	1.63	1.47	11.16	-12.2	25.5
4,916.0	6.20	135.40	4,905.4	-156.8	220.6	2.02	2.00	-3.37	-15.7	24.0
5,010.0	3.60	157.40	4,999.0	-163.1	225.3	3.36	-2.77	23.40	-7.5	27.0
5,105.0	2.50	172.00	5,093.9	-167.9	226.7	1.41	-1.16	15.37	-0.4	24.3
5,199.0	1.90	178.00	5,187.8	-171.5	227.0	0.68	-0.64	6.38	2.9	19.6

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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)
5,294.0	1.80	178.20	5,282.8	-174.6	227.1	0.11	-0.11	0.21	4.4	14.7
5,388.0	1.70	169.60	5,376.7	-177.4	227.4	0.30	-0.11	-9.15	4.3	10.8
5,483.0	1.70	167.90	5,471.7	-180.2	228.0	0.05	0.00	-1.79	6.4	6.8
5,577.0	1.40	168.10	5,565.6	-182.7	228.5	0.32	-0.32	0.21	9.1	2.8
5,671.0	1.70	163.10	5,659.6	-185.1	229.2	0.35	0.32	-5.32	11.7	-0.1
5,766.0	1.70	161.80	5,754.6	-187.8	230.0	0.04	0.00	-1.37	12.6	-2.2
5,860.0	1.70	157.00	5,848.5	-190.4	231.0	0.15	0.00	-5.11	11.1	-1.8
5,954.0	1.60	156.30	5,942.5	-192.9	232.1	0.11	-0.11	-0.74	8.5	-1.7
6,049.0	1.60	159.80	6,037.5	-195.4	233.1	0.10	0.00	3.68	5.7	-2.1
6,143.0	1.60	164.70	6,131.4	-197.9	233.9	0.15	0.00	5.21	2.9	-2.5
6,237.0	1.40	169.50	6,225.4	-200.3	234.4	0.25	-0.21	5.11	0.2	-2.6
6,330.0	1.20	172.60	6,318.4	-202.4	234.7	0.23	-0.22	3.33	-2.1	-2.5
6,425.0	1.10	172.80	6,413.3	-204.3	235.0	0.11	-0.11	0.21	-4.0	-2.5
6,519.0	1.00	167.70	6,507.3	-206.0	235.3	0.15	-0.11	-5.43	-5.4	-3.0
6,614.0	1.10	163.70	6,602.3	-207.6	235.7	0.13	0.11	-4.21	-7.0	-3.4
6,708.0	1.00	153.90	6,696.3	-209.2	236.3	0.22	-0.11	-10.43	-8.0	-4.7
6,803.0	1.00	146.20	6,791.3	-210.7	237.1	0.14	0.00	-8.11	-9.0	-5.8
6,897.0	0.90	136.40	6,885.3	-211.9	238.1	0.20	-0.11	-10.43	-9.4	-7.4
6,992.0	0.90	132.70	6,980.3	-212.9	239.2	0.06	0.00	-3.89	-10.4	-8.0
7,086.0	0.80	120.60	7,074.2	-213.8	240.3	0.22	-0.11	-12.87	-9.8	-10.2
7,180.0	0.80	124.50	7,168.2	-214.5	241.4	0.06	0.00	4.15	-11.8	-9.4
7,274.0	0.70	139.80	7,262.2	-215.3	242.3	0.24	-0.11	16.28	-15.1	-5.8
7,368.0	0.60	153.40	7,356.2	-216.2	242.9	0.19	-0.11	14.47	-17.1	-2.0
7,462.0	0.70	173.60	7,450.2	-217.2	243.2	0.26	0.11	21.49	-17.8	4.2
7,557.0	0.80	195.50	7,545.2	-218.4	243.1	0.32	0.11	23.05	-16.1	10.8
7,651.0	1.00	206.10	7,639.2	-219.8	242.5	0.28	0.21	11.28	-15.3	13.7
7,745.0	1.30	204.40	7,733.2	-221.5	241.7	0.32	0.32	-1.81	-17.6	13.2

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7,839.0	1.60	213.40	7,827.1	-223.5	240.6	0.40	0.32	9.57	-17.7	15.9
7,934.0	1.90	228.90	7,922.1	-225.7	238.6	0.61	0.32	17.37	-15.3	20.7
8,028.0	1.90	236.50	8,016.1	-227.5	236.1	0.23	0.00	7.02	-15.9	22.5
8,122.0	1.90	236.10	8,110.0	-229.2	233.5	0.01	0.00	-0.43	-19.2	22.4
8,216.0	1.90	241.30	8,203.9	-230.9	230.9	0.18	0.00	5.53	-20.2	24.1
8,310.0	1.90	234.90	8,297.9	-232.5	228.2	0.23	0.00	-6.81	-25.9	21.6
8,404.0	1.70	227.60	8,391.9	-234.3	225.9	0.32	-0.21	-7.77	-31.3	17.9
8,499.0	1.50	234.30	8,486.8	-236.0	223.9	0.29	-0.21	7.05	-31.7	21.6
8,593.0	1.50	246.90	8,580.8	-237.2	221.8	0.35	0.00	13.40	-28.6	28.3
8,688.0	1.40	245.60	8,675.8	-238.2	219.8	0.11	-0.11	-1.37	-31.7	27.6
8,782.0	1.30	245.80	8,769.7	-239.1	217.5	0.11	-0.11	0.21	-33.8	27.7
8,876.0	1.30	253.70	8,863.7	-239.8	215.5	0.19	0.00	8.40	-31.8	32.2
8,970.0	1.30	253.70	8,957.7	-240.4	213.5	0.00	0.00	0.00	-33.9	32.2
9,064.0	1.10	258.80	9,051.7	-240.9	211.6	0.24	-0.21	5.43	-32.9	35.2
9,158.0	1.10	253.40	9,145.6	-241.3	209.8	0.11	0.00	-5.74	-37.8	31.9
9,253.0	1.10	251.00	9,240.6	-241.9	208.1	0.05	0.00	-2.53	-41.0	30.2
9,347.0	1.10	264.50	9,334.6	-242.3	206.4	0.28	0.00	14.36	-34.6	39.2
9,442.0	1.10	293.10	9,429.6	-242.0	204.6	0.57	0.00	30.11	-13.3	51.4
9,536.0	1.40	318.50	9,523.6	-240.8	203.0	0.66	0.32	27.02	8.0	52.5
9,630.0	1.60	323.00	9,617.5	-238.9	201.5	0.25	0.21	4.79	9.7	51.8
9,724.0	1.50	324.70	9,711.5	-236.8	200.0	0.12	-0.11	1.81	8.7	51.5
9,818.0	1.30	323.20	9,805.5	-235.0	198.6	0.22	-0.21	-1.60	5.0	51.7
9,912.0	1.10	327.70	9,899.5	-233.4	197.5	0.24	-0.21	4.79	7.1	51.2
10,007.0	1.30	337.50	9,994.4	-231.6	196.6	0.30	0.21	10.32	13.7	49.4
10,101.0	0.60	323.20	10,088.4	-230.2	195.9	0.78	-0.74	-15.21	-0.4	51.0
10,195.0	0.40	218.30	10,182.4	-230.1	195.4	0.85	-0.21	-111.60	-49.4	-14.0
10,289.0	0.70	249.30	10,276.4	-230.5	194.7	0.44	0.32	32.98	-50.4	13.6

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10,384.0	0.80	280.70	10,371.4	-230.6	193.5	0.44	0.11	33.05	-37.1	38.2
10,478.0	1.40	300.90	10,465.4	-229.9	191.8	0.75	0.64	21.49	-23.4	48.9
10,573.0	1.30	308.10	10,560.4	-228.7	190.0	0.21	-0.11	7.58	-19.3	51.6
10,667.0	1.10	313.30	10,654.3	-227.4	188.5	0.24	-0.21	5.53	-16.5	53.2
10,761.0	0.80	301.30	10,748.3	-226.4	187.3	0.38	-0.32	-12.77	-28.8	48.4
10,855.0	0.70	321.40	10,842.3	-225.6	186.3	0.30	-0.11	21.38	-11.6	55.8
10,950.0	0.80	5.70	10,937.3	-224.5	186.1	0.60	0.11	46.63	29.4	48.3
11,045.0	0.80	20.70	11,032.3	-223.2	186.4	0.22	0.00	15.79	39.6	39.2
11,140.0	0.40	287.80	11,127.3	-222.5	186.3	0.96	-0.42	-97.79	-41.4	38.9
11,234.0	1.10	283.00	11,221.3	-222.2	185.1	0.75	0.74	-5.11	-45.6	33.3
11,329.0	1.30	256.50	11,316.3	-222.3	183.1	0.61	0.21	-27.89	-57.6	9.1
11,424.0	1.00	242.00	11,411.2	-222.9	181.4	0.44	-0.32	-15.26	-59.9	-5.9
11,518.0	1.00	205.20	11,505.2	-224.0	180.3	0.67	0.00	-39.15	-45.9	-41.1
11,613.0	0.80	229.80	11,600.2	-225.2	179.4	0.45	-0.21	25.89	-60.2	-17.9
11,707.0	1.20	256.20	11,694.2	-225.9	178.0	0.64	0.43	28.09	-63.5	11.0
11,802.0	1.20	233.20	11,789.2	-226.7	176.2	0.50	0.00	-24.21	-64.7	-15.0
11,859.0	1.50	207.40	11,846.2	-227.7	175.4	1.18	0.53	-45.26	-52.9	-42.0
11,931.0	1.50	192.10	11,918.1	-229.5	174.8	0.55	0.00	-21.25	-41.9	-54.7
12,026.0	1.80	183.60	12,013.1	-232.2	174.4	0.41	0.32	-8.95	-36.0	-60.5
12,121.0	8.90	3.60	12,107.8	-226.3	174.8	11.26	7.47	189.47	31.5	60.7
12,216.0	25.30	5.10	12,198.3	-198.6	177.1	17.27	17.26	1.58	20.7	61.9
12,309.0	37.50	9.20	12,277.5	-150.6	183.4	13.31	13.12	4.41	6.9	63.5
12,404.0	45.20	12.70	12,348.8	-89.1	195.4	8.46	8.11	3.68	-7.1	64.6
12,498.0	50.20	13.30	12,412.0	-21.4	211.1	5.34	5.32	0.64	-15.6	64.1
12,593.0	60.00	14.60	12,466.3	54.1	229.9	10.38	10.32	1.37	-17.3	62.3
12,688.0	69.60	11.80	12,506.7	137.7	249.4	10.45	10.11	-2.95	-17.1	60.9
12,782.0	79.20	14.30	12,532.0	225.8	269.9	10.53	10.21	2.66	-11.5	60.1

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #702H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3342.0usft
Site:	Javelina 30 Fed	**MD Reference:**	KB = 25 @ 3342.0usft
Well:	#702H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**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)
12,877.0	88.30	13.30	12,544.0	317.2	292.3	7.55	7.47	-1.05	-2.7	57.6
12,971.0	89.70	11.30	12,547.2	409.0	312.3	4.20	3.62	-2.13	1.3	53.7
13,065.0	90.80	10.40	12,546.8	501.3	330.0	1.51	1.17	-0.96	1.6	47.5
13,159.0	89.70	7.20	12,546.4	594.2	344.4	3.60	-1.17	-3.40	2.1	39.9
13,254.0	92.10	6.50	12,544.9	688.5	355.7	2.63	2.53	-0.74	1.2	30.7
13,347.0	91.80	5.80	12,541.8	780.9	365.7	0.82	-0.32	-0.75	-1.1	20.0
13,442.0	90.00	6.90	12,540.3	875.3	376.2	2.22	-1.89	1.16	-1.8	8.8
13,536.0	88.70	1.90	12,541.3	969.0	383.4	5.50	-1.38	-5.32	0.1	0.8
13,630.0	89.50	0.30	12,542.8	1,063.0	385.2	1.90	0.85	-1.70	2.3	-1.8
13,725.0	91.10	1.00	12,542.3	1,158.0	386.3	1.84	1.68	0.74	2.6	-3.8
13,820.0	91.50	0.70	12,540.2	1,252.9	387.7	0.53	0.42	-0.32	1.2	-5.8
13,915.0	91.80	1.00	12,537.4	1,347.9	389.1	0.45	0.32	0.32	-0.7	-8.0
14,008.0	92.60	0.30	12,533.9	1,440.8	390.2	1.14	0.86	-0.75	-3.5	-9.8
14,102.0	92.10	1.30	12,530.0	1,534.7	391.5	1.19	-0.53	1.06	-6.6	-11.9
14,196.0	90.40	359.00	12,528.0	1,628.7	391.7	3.04	-1.81	-2.45	-7.9	-12.9
14,293.0	89.00	358.40	12,528.5	1,725.7	389.5	1.57	-1.44	-0.62	-6.6	-11.5
14,386.0	88.40	357.50	12,530.6	1,818.6	386.2	1.16	-0.65	-0.97	-3.7	-8.9
14,481.0	89.70	358.20	12,532.2	1,913.5	382.6	1.55	1.37	0.74	-1.4	-6.1
14,575.0	90.70	358.70	12,531.8	2,007.4	380.1	1.19	1.06	0.53	-0.9	-4.3
14,669.0	91.00	358.10	12,530.4	2,101.4	377.5	0.71	0.32	-0.64	-1.5	-2.5
14,763.0	90.10	358.00	12,529.5	2,195.3	374.3	0.96	-0.96	-0.11	-1.7	0.0
14,857.0	90.00	359.50	12,529.4	2,289.3	372.2	1.60	-0.11	1.60	-1.0	1.2
14,951.0	90.10	359.70	12,529.4	2,383.3	371.6	0.24	0.11	0.21	-0.3	1.1
15,045.0	91.00	359.80	12,528.5	2,477.3	371.1	0.96	0.96	0.11	-0.4	0.8
15,140.0	90.00	359.80	12,527.6	2,572.3	370.8	1.05	-1.05	0.00	-0.5	0.3
15,234.0	90.30	359.60	12,527.4	2,666.3	370.3	0.38	0.32	-0.21	0.1	0.1
15,328.0	90.20	359.60	12,527.0	2,760.3	369.7	0.11	-0.11	0.00	0.4	0.0

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #702H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3342.0usft
Site:	Javelina 30 Fed	**MD Reference:**	KB = 25 @ 3342.0usft
Well:	#702H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**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)
15,422.0	90.70	359.60	12,526.2	2,854.3	369.0	0.53	0.53	0.00	0.4	-0.2
15,516.0	90.00	359.30	12,525.7	2,948.3	368.1	0.81	-0.74	-0.32	0.6	0.0
15,610.0	90.00	359.10	12,525.7	3,042.3	366.8	0.21	0.00	-0.21	1.4	0.5
15,705.0	91.20	359.40	12,524.7	3,137.3	365.6	1.30	1.26	0.32	1.2	1.0
15,799.0	92.40	359.40	12,521.7	3,231.2	364.6	1.28	1.28	0.00	-1.0	1.2
15,893.0	92.00	359.60	12,518.1	3,325.1	363.7	0.48	-0.43	0.21	-4.1	1.3
15,987.0	90.60	0.20	12,516.0	3,419.1	363.6	1.62	-1.49	0.64	-5.6	0.7
16,082.0	90.80	0.00	12,514.8	3,514.1	363.8	0.30	0.21	-0.21	-6.2	-0.3
16,176.0	90.80	0.20	12,513.5	3,608.1	363.9	0.21	0.00	0.21	-6.9	-1.2
16,271.0	88.60	0.70	12,514.0	3,703.1	364.7	2.37	-2.32	0.53	-5.8	-2.7
16,365.0	89.80	1.20	12,515.3	3,797.1	366.2	1.38	1.28	0.53	-3.9	-5.0
16,459.0	91.40	1.30	12,514.3	3,891.0	368.3	1.71	1.70	0.11	-4.3	-7.8
16,554.0	90.70	0.30	12,512.6	3,986.0	369.6	1.28	-0.74	-1.05	-5.5	-9.9
16,648.0	91.00	359.20	12,511.2	4,080.0	369.2	1.21	0.32	-1.17	-6.3	-10.3
16,742.0	89.20	357.80	12,511.0	4,173.9	366.7	2.43	-1.91	-1.49	-5.8	-8.6
16,836.0	90.00	358.60	12,511.7	4,267.9	363.8	1.20	0.85	0.85	-4.6	-6.4
16,931.0	94.30	0.30	12,508.1	4,362.8	362.9	4.87	4.53	1.79	-7.6	-6.3
17,025.0	92.50	359.10	12,502.5	4,456.6	362.4	2.30	-1.91	-1.28	-12.6	-6.5
17,119.0	90.30	0.80	12,500.2	4,550.6	362.3	2.98	-2.34	1.81	-14.3	-7.2
17,213.0	87.80	1.20	12,501.8	4,644.6	363.9	2.69	-2.66	0.43	-12.1	-9.6
17,308.0	88.80	0.50	12,506.3	4,739.4	365.3	1.28	-1.05	-0.74	-7.1	-11.8
17,402.0	86.10	0.60	12,512.1	4,833.3	366.2	0.75	-0.74	0.11	-0.7	-13.4
17,496.0	89.60	0.60	12,515.6	4,927.2	367.2	3.72	3.72	0.00	3.5	-15.2
17,591.0	90.80	0.40	12,515.3	5,022.2	368.0	1.28	1.26	-0.21	3.7	-16.8
17,685.0	90.40	0.40	12,514.3	5,116.2	368.7	0.43	-0.43	0.00	3.3	-18.2
17,780.0	93.30	2.30	12,511.2	5,211.1	370.9	3.65	3.05	2.00	0.9	-21.2
17,874.0	90.90	2.40	12,507.8	5,304.9	374.8	2.56	-2.55	0.11	-2.0	-25.8

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #702H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3342.0usft
Site:	Javelina 30 Fed	**MD Reference:**	KB = 25 @ 3342.0usft
Well:	#702H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**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)
17,968.0	89.30	359.80	12,507.6	5,398.9	376.6	3.25	-1.70	-2.77	-1.6	-28.4
18,063.0	87.80	358.50	12,510.0	5,493.8	375.2	2.09	-1.58	-1.37	1.4	-27.7
18,157.0	88.30	358.40	12,513.2	5,587.7	372.6	0.54	0.53	-0.11	5.2	-26.0
18,252.0	91.30	359.20	12,513.6	5,682.7	370.7	3.27	3.16	0.84	6.1	-24.8
18,346.0	92.70	0.00	12,510.3	5,776.7	370.0	1.72	1.49	0.85	3.4	-24.9
18,440.0	89.40	359.80	12,508.6	5,870.6	369.8	3.52	-3.51	-0.21	2.3	-25.5
18,535.0	91.90	359.60	12,507.5	5,965.6	369.3	2.64	2.63	-0.21	1.8	-25.7
18,630.0	91.80	358.50	12,504.4	6,060.5	367.8	1.16	-0.11	-1.16	-0.7	-24.9
18,724.0	94.00	357.60	12,499.7	6,154.4	364.6	2.53	2.34	-0.96	-4.9	-22.5
18,819.0	94.60	358.00	12,492.4	6,249.0	360.9	0.84	0.84	0.42	-11.5	-19.6
18,913.0	94.90	359.60	12,484.4	6,342.7	359.0	1.70	0.11	1.70	-18.9	-18.5
19,008.0	91.50	359.90	12,479.1	6,437.5	358.6	3.59	-3.58	0.32	-23.7	-16.8
19,102.0	87.60	358.20	12,479.9	6,531.5	357.0	4.53	-4.15	-1.81	-22.5	-16.0
19,197.0	88.90	358.20	12,482.8	6,626.4	354.0	1.37	1.37	0.00	-19.1	-15.8
19,290.0	89.60	357.50	12,484.0	6,719.3	350.5	1.06	0.75	-0.75	-17.4	-13.0
19,385.0	92.10	357.50	12,482.6	6,814.2	346.4	2.63	2.63	0.00	-18.4	-9.7
19,480.0	92.60	357.10	12,478.5	6,909.0	341.9	0.65	0.74	-0.42	-22.0	-6.0
19,602.0	91.40	358.20	12,474.0	7,030.8	336.9	1.46	-1.15	0.90	-25.9	-1.9
19,696.0	93.30	359.40	12,470.2	7,124.7	335.0	2.39	2.02	1.28	-29.3	-0.7
19,791.0	91.60	359.70	12,466.1	7,219.6	334.2	1.82	-1.79	0.32	-32.9	-0.8
19,885.0	90.00	0.20	12,464.8	7,313.6	334.1	1.78	-1.70	0.53	-33.7	-1.4
19,980.0	90.30	359.00	12,464.6	7,408.6	333.5	1.30	0.32	-1.26	-33.5	-1.6
20,074.0	90.00	359.30	12,464.3	7,502.6	332.1	0.45	-0.32	0.32	-33.3	-0.9
20,169.0	91.40	359.60	12,463.2	7,597.6	331.2	1.51	1.47	0.32	-34.0	-0.8
20,263.0	92.10	0.30	12,460.3	7,691.5	331.1	1.05	0.74	0.74	-36.4	-1.5
20,358.0	91.20	0.30	12,457.6	7,786.5	331.6	0.95	-0.95	0.00	-38.7	-2.7
20,453.0	90.70	0.60	12,456.0	7,881.4	332.5	0.74	-0.53	0.53	-39.8	-4.4

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #702H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB = 25 @ 3342.0usft
Site:	Javelina 30 Fed	**MD Reference:**	KB = 25 @ 3342.0usft
Well:	#702H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**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)
20,548.0	89.80	359.60	12,455.6	7,976.4	332.8	1.58	-0.95	-1.26	-39.8	-5.5
20,642.0	92.90	1.60	12,453.4	8,070.4	333.8	3.92	3.30	2.13	-41.6	-7.3
20,736.0	92.20	1.10	12,449.2	8,164.3	336.0	0.91	-0.74	-0.53	-45.3	-10.2
20,765.0	92.60	1.10	12,448.0	8,193.2	336.6	1.38	1.38	0.00	-46.4	-11.0
20,826.0	93.00	1.60	12,445.0	8,254.2	338.0	1.05	0.66	0.82	-49.0	-13.0

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
12,060.0	12,047.1	-232.1	174.4	KOP, MD:12060.0', TVD:12047.1',N/S:-232.1', E/W:174.4', INC:2.03
13,010.0	12,547.3	447.3	319.9	LL Crossing, MD:13010.0', TVD:12547.3',N/S:447.3', E/W:319.9', INC:90.16
13,112.0	12,546.4	547.7	337.9	FTP Crossing, MD:13112.0', TVD:12546.4',N/S:547.7', E/W:337.9', INC:90.25
20,765.0	12,448.0	8,193.2	336.6	Last MWD Survey (MD=20765.0')
20,826.0	12,445.0	8,254.2	338.0	Projection to Bit (MD=20826.0')

Checked By: _____ Approved By: _____ Date: _____

eog resources

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 **#702H**

Plan #1

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

WELL DETAILS: #702H

3317.0
KB = 25 @ 3342.0usft

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	401179.00	794555.00	32° 8' 1.010 N	103° 30' 56.132 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	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1399.8	4.00	130.16	1399.6	-4.5	5.3	2.00	130.16	-4.3	
4	5650.9	4.00	130.16	5640.4	-195.5	231.7	0.00	0.00	-186.3	
5	5850.7	0.00	0.00	5840.0	-200.0	237.0	2.00	180.00	-190.5	
6	12080.3	0.00	0.00	12069.6	-200.0	237.0	0.00	0.00	-190.5	
7	12834.2	90.47	12.50	12547.0	270.0	341.2	12.00	12.50	283.2	
8	13266.4	90.47	359.53	12543.5	698.9	386.4	3.00	-89.94	713.5	
9	15761.8	90.47	359.53	12523.0	3194.1	366.1	0.00	0.00	3206.0	TGT#1(Javelina 30 fed #702H)
10	15767.4	90.36	359.54	12523.0	3199.7	366.0	2.00	179.19	3211.6	
11	18961.4	90.36	359.54	12503.0	6393.6	340.1	0.00	0.00	6402.0	TGT#2(Javelina 30 fed #702H)
12	18965.5	90.28	359.54	12503.0	6397.7	340.1	2.00	-180.00	6406.1	
13	20827.9	90.28	359.54	12494.0	8260.0	325.0	0.00	0.00	8268.4	PBHL(Javelina 30 fed #702H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Brushy Top(Javelina 30 fed #702H)	7942.0	-200.0	237.0	400978.00	794792.00	Polygon
PBHL(Javelina 30 fed #702H)	12494.0	8260.0	325.0	409439.00	794880.00	Rectangle (Sides: L0.0 W60.0)
TGT#2(Javelina 30 fed #702H)	12503.0	6393.6	340.1	407572.60	794895.14	Point
TGT#1(Javelina 30 fed #702H)	12523.0	3194.1	366.1	404373.10	794921.03	Point
FTP(Javelina 30 fed #702H)	12547.0	548.0	387.0	401727.00	794942.00	Point