



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Wild Weasel 22 Fed Com

#711H

OH

Design: OH

Midland PVA

07 December, 2019

HOBBS OCD

FEB 27 2020

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Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #711H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3370.0usft
Site:	Wild Weasel 22 Fed Com	MD Reference:	KB = 25 @ 3370.0usft
Well:	#711H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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	Wild Weasel 22 Fed Com		
Site Position:		Northing:	409,434.00 usft
From:	Map	Easting:	814,510.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 7' 21.137 N
		Longitude:	103° 27' 3.375 W
		Grid Convergence:	0.47 °

Well	#711H		
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 (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/20/2019	6.64	59.98	47,649.24748050

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	181.86	

Survey Program	Date	12/7/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
149.0	22,782.0	Gyro Data (OH)	MWD	OWSG MWD - Standard



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Well:	#711H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

Survey											
MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Bulld (°/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	0.00	0.0	0.0
149.0	1.11	75.38	149.0	0.4	1.4	0.74	0.74	0.00	-1.4	0.0	
325.0	0.92	75.87	325.0	1.1	4.4	0.11	-0.11	0.28	-4.6	0.0	
502.0	0.93	81.78	501.9	1.7	7.2	0.05	0.01	3.34	-7.4	0.6	
690.0	0.79	84.17	689.9	2.0	10.0	0.08	-0.07	1.27	-10.2	1.0	
881.0	0.94	82.56	880.9	2.4	12.9	0.08	0.08	-0.84	-13.1	0.7	
951.0	0.96	91.47	950.9	2.4	14.0	0.21	0.03	12.73	-14.0	2.8	
1,061.0	0.70	86.72	1,060.9	2.5	15.6	0.24	-0.24	-4.32	-15.7	1.6	
1,253.0	0.68	124.17	1,252.9	1.9	17.7	0.23	-0.01	19.51	-13.6	11.5	
1,444.0	0.51	98.21	1,443.9	1.1	19.5	0.16	-0.09	-13.59	-19.2	3.9	
1,636.0	0.81	99.57	1,635.8	0.8	21.4	0.05	0.05	0.71	-20.9	4.4	
1,828.0	0.38	92.24	1,827.8	0.8	23.0	0.12	-0.12	-3.82	-23.0	1.5	
2,019.0	0.51	70.45	2,018.8	0.9	24.5	0.11	0.07	-11.41	-23.3	-7.3	
2,211.0	0.79	53.02	2,210.8	2.0	26.3	0.18	0.15	-9.08	-22.2	-14.3	
2,403.0	1.13	27.15	2,402.8	4.5	28.2	0.28	0.18	-13.47	-16.8	-23.1	
2,594.0	3.15	312.27	2,593.7	9.7	25.2	1.60	1.06	-39.20	13.6	-24.6	
2,786.0	5.28	295.27	2,785.2	17.0	13.3	1.27	1.11	-8.85	18.9	-21.7	
2,978.0	5.59	299.72	2,978.3	25.4	-2.8	0.27	0.16	2.32	18.9	-24.8	
3,170.0	6.91	293.65	3,167.1	34.7	-21.5	0.77	0.69	-3.16	20.6	-24.0	
3,361.0	7.31	298.85	3,358.7	45.1	-42.7	0.40	0.21	2.72	14.6	-26.8	
3,553.0	8.86	294.41	3,548.8	57.1	-68.8	0.87	0.81	-2.31	9.7	-27.2	
3,745.0	9.65	282.61	3,738.3	66.8	-96.0	1.07	0.41	-6.15	4.1	-24.1	
3,937.0	9.87	287.02	3,925.5	75.1	-127.4	0.41	0.11	2.30	-10.4	-21.1	
4,129.0	8.85	292.78	4,115.0	85.6	-156.8	0.72	-0.53	2.99	-23.6	-18.4	
4,320.0	7.86	285.68	4,303.9	94.8	-182.9	0.75	-0.52	-3.71	-29.0	-20.5	
4,512.0	7.20	280.67	4,494.3	100.6	-207.4	0.48	-0.34	-2.61	-32.7	-19.9	
4,704.0	5.49	280.20	4,685.1	104.5	-228.2	0.89	-0.89	-0.24	-34.1	-15.9	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Weasel 22 Fed Com
 Well: #711H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #711H
 TVD Reference: KB = 25 @ 3370.0usft
 MD Reference: KB = 25 @ 3370.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM

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)	
4,898.0	4.97	288.57	4,878.3	108.7	-245.2	0.48	-0.27	4.36	-33.4	-8.0	
5,087.0	3.32	289.63	5,068.8	114.1	-257.8	0.96	-0.86	5.79	-28.2	-2.3	
5,279.0	3.97	288.28	5,258.4	118.9	-269.0	0.50	0.34	-5.91	-19.2	-7.3	
5,471.0	3.57	284.68	5,450.0	122.5	-281.1	0.24	-0.21	-1.87	-11.4	-6.1	
5,663.0	4.66	282.27	5,641.5	125.7	-294.5	0.57	0.57	-1.26	-5.2	-3.1	
5,854.0	5.17	282.75	5,831.8	129.3	-310.4	0.27	0.27	0.25	-1.9	0.4	
6,046.0	6.01	284.29	6,022.9	133.7	-328.6	0.44	0.44	0.80	-0.7	3.7	
6,238.0	5.75	283.70	6,213.9	138.4	-347.7	0.14	-0.14	-0.31	-0.6	6.7	
6,430.0	5.27	284.79	6,405.0	142.9	-365.6	0.26	-0.25	0.57	1.0	9.7	
6,622.0	4.63	283.65	6,598.3	147.0	-381.6	0.34	-0.33	-0.59	4.1	12.7	
6,813.0	4.48	285.41	6,788.7	150.8	-396.3	0.11	-0.08	0.92	9.1	15.3	
7,005.0	4.41	282.11	6,978.1	154.4	-410.8	0.14	-0.04	-1.72	9.5	18.4	
7,196.0	3.18	295.64	7,168.7	158.2	-422.7	0.79	-0.64	7.08	5.2	17.2	
7,388.0	2.57	315.79	7,360.4	163.6	-430.5	0.61	-0.32	10.49	1.6	16.2	
7,580.0	0.84	297.49	7,552.3	167.3	-434.8	0.93	-0.90	-9.53	-9.1	14.5	
7,772.0	0.62	289.92	7,744.3	168.3	-437.0	0.12	-0.11	-3.94	-13.4	13.0	
7,965.0	0.42	259.40	7,937.3	168.6	-438.7	0.17	-0.10	-15.81	-18.7	3.9	
8,156.0	0.19	192.51	8,128.3	168.1	-439.4	0.20	-0.12	-35.02	-11.9	-17.3	
8,345.7	0.23	174.02	8,318.0	167.4	-439.5	0.04	0.02	-9.75	-6.5	-20.2	
Brushy Top (WW 22 FC #711H)											
8,347.0	0.23	173.91	8,319.3	167.4	-439.5	0.04	0.03	-7.92	-6.5	-20.3	
8,539.0	0.45	168.88	8,511.3	166.3	-439.7	0.14	0.11	13.01	-15.5	-15.6	
8,731.0	0.50	199.01	8,703.3	164.8	-440.2	0.03	0.03	0.07	-17.1	-15.4	
8,922.0	0.85	190.52	8,894.3	162.6	-440.7	0.19	0.18	-4.45	-18.9	-17.9	
9,113.0	0.72	201.22	9,085.3	160.1	-441.4	0.10	-0.07	5.60	-22.5	-14.2	
9,305.0	0.52	191.82	9,277.2	158.2	-442.0	0.12	-0.10	-4.84	-22.0	-17.9	
9,497.0	0.45	170.75	9,469.2	156.6	-442.1	0.10	-0.04	-11.03	-15.6	-24.9	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #711H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3370.0usft
Site:	Wild Weasel 22 Fed Corn	MD Reference:	KB = 25 @ 3370.0usft
Well:	#711H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)	
9,694.0	0.83	208.37	9,668.2	154.5	-442.6	0.28	0.19	19.10	-28.8	-8.7	
9,886.0	1.22	205.83	9,858.2	151.5	-444.2	0.20	0.20	-1.27	-32.8	-11.0	
10,077.0	0.65	106.14	10,049.2	148.3	-444.0	0.77	-0.30	-52.25	15.7	-32.3	
10,269.0	1.08	96.45	10,241.2	148.8	-441.2	0.23	0.21	-5.05	18.0	-29.4	
10,461.0	0.84	81.62	10,433.1	148.6	-438.0	0.12	-0.11	-2.52	17.3	-27.9	
10,653.0	0.70	175.93	10,625.1	147.4	-438.8	0.54	-0.07	43.91	-27.4	-18.5	
10,845.0	0.47	206.64	10,817.1	145.5	-438.8	0.20	-0.12	15.99	-34.8	-1.4	
11,037.0	0.83	210.92	11,009.1	143.6	-437.9	0.19	0.19	2.23	-37.0	1.3	
11,230.0	2.95	207.26	11,202.0	138.0	-440.9	1.10	1.10	-1.80	-43.3	-1.2	
11,421.0	1.63	222.81	11,392.8	131.7	-445.0	0.78	-0.69	8.14	-49.5	11.8	
11,613.0	3.60	284.09	11,584.6	131.1	-452.7	1.64	1.03	31.92	-20.7	51.5	
11,805.0	3.23	288.71	11,776.3	134.1	-463.7	0.21	-0.19	1.36	-28.8	52.7	
11,896.0	3.01	285.48	11,867.2	135.5	-468.5	0.25	-0.24	-1.35	-35.9	52.0	
12,036.0	3.38	285.93	12,007.0	137.6	-478.0	0.26	0.26	0.32	-43.3	52.3	
12,110.0	2.39	250.38	12,080.9	137.7	-478.5	2.70	-1.33	-48.04	-68.9	16.1	
KOP, MD:12110.0', TVD:12080.9', N/S:137.7', E/W:-478.5', INC:2.39											
12,132.0	2.36	238.05	12,102.8	137.3	-480.3	2.70	-0.15	-65.14	-71.7	-1.6	
12,228.0	11.83	162.88	12,198.1	128.8	-479.1	11.84	9.88	-78.22	-23.5	-68.9	
12,231.8	12.34	163.41	12,201.8	128.0	-478.9	13.87	13.55	14.03	-24.3	-68.4	
FTP Crossing, MD:12231.8', TVD:12201.8', N/S:128.0', E/W:-478.9', INC:12.34											
12,324.0	24.99	169.65	12,289.0	97.3	-472.5	13.87	13.71	6.78	-35.6	-59.4	
12,420.0	38.57	174.77	12,371.3	48.7	-468.2	12.36	12.08	5.33	-43.5	-50.3	
12,515.0	45.94	167.97	12,442.7	-13.1	-456.5	10.92	8.86	-7.16	-39.8	-43.8	
FTP (WW 22 FC #711H)											
12,611.0	54.44	167.95	12,504.1	-85.1	-441.2	8.85	8.85	-0.02	-34.8	-27.0	
12,707.0	68.58	167.26	12,549.8	-167.3	-423.1	14.74	14.73	-0.72	-27.7	-7.7	
12,803.0	75.70	169.27	12,579.2	-256.7	-404.5	7.88	7.42	2.09	-17.4	11.3	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #711H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3370.0usft
Site:	Wild Weasel Z2 Fed Corn	MD Reference:	KB = 25 @ 3370.0usft
Well:	#711H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLog (°/100usft)	Buidl (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,899.0	88.87	179.09	12,582.1	-351.0	-395.0	17.04	13.72	10.23	-6.9	20.6	
12,920.0	89.26	179.14	12,582.5	-372.0	-394.7	1.87	1.86	0.24	-6.8	20.7	
13,016.0	87.03	180.20	12,585.6	-468.0	-394.2	2.57	-2.32	1.10	-4.6	20.4	
13,112.0	86.69	179.83	12,600.8	-563.8	-394.2	0.52	-0.35	-0.39	-0.4	19.6	
13,208.0	85.75	178.17	12,607.2	-659.6	-393.3	1.20	-0.88	-0.69	4.9	19.6	
13,304.0	88.47	179.80	12,612.0	-755.5	-392.3	2.87	2.83	0.45	8.8	19.8	
13,399.0	89.69	180.27	12,613.5	-850.5	-392.2	1.47	1.28	0.71	9.3	19.1	
13,485.0	91.19	180.38	12,612.8	-846.5	-392.8	1.57	1.56	0.11	7.5	17.8	
13,591.0	90.45	180.20	12,611.4	-1,042.5	-393.2	0.79	-0.77	-0.19	5.2	16.5	
13,687.0	90.40	179.83	12,610.7	-1,138.5	-393.3	0.39	-0.05	-0.39	3.5	15.8	
13,783.0	90.28	180.28	12,610.1	-1,234.4	-393.4	0.50	-0.12	0.48	1.9	14.7	
13,879.0	90.45	181.70	12,609.5	-1,330.4	-395.0	1.48	0.18	1.47	0.3	12.2	
13,975.0	89.58	181.53	12,609.5	-1,426.4	-397.7	0.82	-0.91	-0.18	-0.7	8.7	
14,071.0	90.31	181.64	12,609.6	-1,522.4	-400.4	0.77	0.76	0.11	-1.7	5.2	
14,167.0	89.97	181.00	12,609.4	-1,618.3	-402.6	0.75	-0.35	-0.67	-2.8	2.2	
14,263.0	89.26	180.25	12,610.0	-1,714.3	-403.6	1.08	-0.74	-0.78	-3.3	0.4	
14,359.0	89.41	179.27	12,611.1	-1,810.3	-403.2	1.03	0.16	-1.02	-3.1	-0.1	
14,455.0	89.07	178.50	12,612.4	-1,806.3	-401.4	0.88	-0.35	-0.80	-2.9	1.0	
14,551.0	88.36	177.81	12,614.5	-2,002.2	-398.3	1.03	-0.74	-0.72	-1.7	3.3	
14,646.0	87.93	177.30	12,617.6	-2,097.1	-394.2	0.70	-0.45	-0.54	0.3	6.5	
14,742.0	88.50	176.86	12,620.6	-2,182.9	-389.4	0.75	0.59	-0.46	2.3	10.6	
14,838.0	89.32	178.08	12,622.4	-2,288.6	-385.1	1.53	0.85	1.27	3.2	14.0	
14,934.0	89.32	178.73	12,623.6	-2,384.7	-382.4	0.68	0.00	0.68	3.3	15.9	
15,030.0	87.82	177.63	12,626.0	-2,480.7	-379.4	1.94	-1.56	-1.15	4.7	18.1	
15,125.0	91.44	179.29	12,626.6	-2,575.6	-376.8	4.19	3.81	1.75	4.3	19.9	
15,221.0	90.99	178.43	12,624.5	-2,671.6	-374.9	1.01	-0.47	-0.80	1.3	21.0	
15,317.0	88.76	179.16	12,624.8	-2,767.5	-372.9	2.44	-2.32	0.76	0.5	22.2	



Midland PVA

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

Survey											
MD (usft)	Ino (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
15,413.0	89.04	180.20	12,628.6	-2,863.5	-372.4	1.12	0.29	1.08	1.3		21.9
15,509.0	88.02	179.63	12,629.1	-2,859.5	-372.2	1.22	-1.08	-0.59	2.8		21.2
15,605.0	90.65	181.07	12,630.2	-3,055.5	-372.8	3.12	2.74	1.50	2.9		19.8
15,701.0	88.78	172.42	12,630.8	-3,151.2	-387.4	9.22	-1.95	-9.01	2.3		24.5
15,797.0	91.16	172.33	12,630.7	-3,248.4	-354.6	2.48	2.48	-0.09	1.5		38.4
15,893.0	94.98	173.38	12,625.8	-3,341.5	-342.7	4.13	3.88	1.09	-4.3		47.8
15,988.0	94.11	176.62	12,618.0	-3,435.8	-334.5	3.52	-0.92	3.41	-13.0		55.0
16,084.0	94.14	179.54	12,611.1	-3,531.5	-331.3	3.03	0.03	3.04	-21.1		57.4
16,180.0	92.69	181.28	12,605.4	-3,627.3	-331.9	2.36	-1.51	1.81	-27.9		55.9
16,276.0	89.66	182.75	12,603.4	-3,723.2	-335.3	3.51	-3.16	1.53	-30.8		51.7
16,350.8	89.26	182.33	12,604.1	-3,787.9	-338.6	0.77	-0.53	-0.56	-30.9		47.7
TGT#1 (WW 22 FC #711H)											
16,372.0	89.15	182.21	12,604.4	-3,819.1	-339.5	0.77	-0.53	-0.56	-30.8		48.7
16,468.0	89.38	181.83	12,605.7	-3,815.0	-342.9	0.38	0.24	-0.29	-30.3		42.4
16,564.0	89.01	184.02	12,607.0	-4,010.9	-347.8	2.21	-0.39	2.18	-28.7		36.6
16,660.0	88.35	180.18	12,610.9	-4,106.7	-351.4	4.88	-2.77	-4.00	-26.5		32.3
16,755.0	88.91	180.86	12,616.5	-4,201.5	-352.3	0.83	0.59	0.72	-21.7		30.7
16,851.0	88.58	180.72	12,620.3	-4,287.5	-353.6	1.75	1.74	-0.15	-18.7		28.5
16,947.0	88.22	180.21	12,622.9	-4,393.4	-354.4	0.65	-0.37	-0.53	-18.7		28.9
17,043.0	87.40	179.78	12,626.6	-4,489.3	-354.4	0.96	-0.85	-0.45	-13.8		26.1
17,139.0	90.14	181.17	12,628.7	-4,585.3	-355.2	3.20	2.85	1.45	-12.5		24.5
17,235.0	90.34	180.91	12,628.3	-4,681.3	-356.9	0.34	0.21	-0.27	-13.7		22.0
17,331.0	90.37	180.35	12,627.7	-4,777.3	-358.0	0.58	0.03	-0.58	-15.0		20.1
17,426.0	89.24	182.51	12,628.0	-4,872.2	-360.4	2.57	-1.19	2.27	-15.4		16.9
17,522.0	89.89	183.33	12,628.7	-4,968.1	-365.2	1.09	0.68	0.85	-15.4		11.2
17,618.0	88.73	182.49	12,629.9	-5,064.0	-370.1	1.49	-1.21	-0.87	-15.0		5.5
17,714.0	88.44	181.76	12,632.3	-5,159.9	-373.7	0.82	-0.30	-0.76	-13.4		1.2



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #711H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3370.0usft
Site:	Wild Weasel 22 Fed Com	MD Reference:	KB = 25 @ 3370.0usft
Well:	#711H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NS (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
17,810.0	88.94	179.84	12,638.1	-5,255.8	-375.0	2.54	-1.56	-2.00	-10.3	-1.0	
17,906.0	87.03	181.14	12,641.2	-5,351.7	-375.8	1.36	0.09	1.35	-6.0	-2.6	
18,002.0	87.65	180.79	12,645.6	-5,447.5	-377.5	0.74	0.65	-0.36	-2.3	-5.0	
18,098.0	92.21	180.93	12,645.7	-5,543.5	-378.9	4.75	4.75	0.15	-2.9	-7.3	
18,194.0	91.70	180.47	12,642.5	-5,639.4	-380.1	0.72	-0.53	-0.48	-6.9	-9.3	
18,290.0	90.74	178.44	12,640.4	-5,735.4	-379.2	2.34	-1.00	-2.11	-9.7	-9.2	
18,386.0	92.30	177.83	12,637.9	-5,831.3	-376.0	1.74	1.62	-0.64	-13.0	-6.8	
18,482.0	91.50	176.21	12,634.7	-5,927.1	-371.0	1.88	-0.83	-1.69	-17.0	-2.7	
18,578.0	89.32	177.19	12,634.0	-6,023.0	-365.5	2.49	-2.27	1.02	-18.4	2.0	
18,674.0	91.87	178.96	12,633.0	-6,118.9	-362.3	3.23	2.66	1.84	-20.1	4.4	
18,769.0	89.04	177.72	12,632.3	-6,213.8	-359.5	3.25	-2.98	-1.31	-21.6	6.4	
18,865.0	88.98	177.45	12,633.9	-6,309.7	-355.5	0.29	-0.06	-0.28	-20.7	9.8	
18,911.5	89.50	177.68	12,634.5	-6,356.2	-353.5	1.23	1.12	0.49	-20.5	11.2	
TGT#2 (WW 22 FC #711H)											
18,961.0	90.06	177.92	12,634.7	-6,405.7	-351.6	1.23	1.13	0.49	-20.6	12.7	
19,057.0	90.62	179.02	12,634.2	-6,501.6	-349.1	1.29	0.58	1.15	-21.8	14.4	
19,153.0	88.44	178.87	12,634.9	-6,597.6	-347.3	2.28	-2.27	-0.16	-21.6	15.4	
19,249.0	87.62	180.67	12,638.2	-6,693.5	-346.9	2.08	-0.85	1.87	-18.9	15.0	
19,345.0	91.36	183.19	12,639.1	-6,789.4	-350.1	4.70	3.90	2.62	-16.7	10.9	
19,441.0	91.59	184.06	12,636.6	-6,885.2	-356.2	0.94	0.24	0.91	-21.8	4.0	
19,537.0	91.16	183.74	12,634.3	-6,981.0	-362.7	0.56	-0.45	-0.33	-24.7	-3.3	
19,633.0	90.73	183.67	12,632.7	-7,076.8	-368.9	0.45	-0.45	-0.07	-27.0	-10.3	
19,728.0	91.25	184.29	12,631.1	-7,171.5	-375.5	0.85	0.55	0.65	-29.2	-17.7	
19,824.0	90.65	183.67	12,629.5	-7,267.3	-382.2	0.90	-0.62	-0.65	-31.5	-25.1	
19,920.0	88.76	182.06	12,630.0	-7,363.1	-387.0	2.59	-1.97	-1.68	-31.6	-30.8	
20,016.0	89.18	181.56	12,631.7	-7,459.1	-390.0	0.88	0.44	-0.52	-30.5	-34.6	
20,112.0	88.30	180.01	12,633.8	-7,555.0	-391.3	1.86	-0.92	-1.61	-29.0	-36.8	



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Wild Weasel 22 Fed Com
Well: #711H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 25 @ 3370.0usft
MD Reference: KB = 25 @ 3370.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey											
MD (usft)	Inc (")	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
20,208.0	87.79	178.90	12,637.1	-7,651.0	-390.4	1.27	-0.53	-1.16	-26.3	-36.7	
20,304.0	87.23	177.83	12,641.3	-7,746.8	-387.7	1.26	-0.58	-1.11	-22.7	-34.8	
20,400.0	88.73	177.86	12,644.7	-7,842.7	-384.1	1.56	1.56	0.03	-20.0	-31.9	
20,495.0	88.64	177.78	12,646.8	-7,937.6	-380.5	0.13	-0.09	-0.08	-18.4	-29.1	
20,591.0	88.73	177.94	12,649.0	-8,033.5	-376.9	0.19	0.09	0.17	-16.9	-26.4	
20,687.0	88.90	178.30	12,651.0	-8,129.4	-372.1	1.72	0.16	-1.71	-15.5	-22.3	
20,794.0	89.24	175.39	12,652.6	-8,236.1	-364.3	0.91	0.32	-0.85	-14.5	-15.5	
20,890.0	90.65	177.39	12,652.9	-8,331.9	-358.3	2.55	1.47	2.08	-15.0	-10.3	
20,986.0	91.67	176.98	12,650.9	-8,427.8	-353.5	1.15	1.06	-0.43	-17.6	-6.4	
21,082.0	89.80	177.69	12,649.7	-8,523.6	-349.1	2.08	-1.85	0.74	-19.4	-2.7	
21,178.0	90.68	177.22	12,649.3	-8,619.5	-344.8	1.04	0.92	-0.49	-20.4	0.7	
21,273.0	89.26	177.37	12,649.3	-8,714.4	-340.3	1.50	-1.49	0.16	-21.0	4.4	
21,369.0	90.08	177.19	12,649.9	-8,810.3	-335.8	0.87	0.85	-0.19	-21.1	8.2	
21,464.0	90.93	177.22	12,649.0	-8,905.2	-331.2	0.90	0.89	0.03	-22.5	12.0	
21,560.0	90.34	178.14	12,648.0	-9,001.1	-327.3	1.14	-0.61	0.98	-24.2	15.1	
21,655.0	88.98	179.05	12,648.5	-9,096.1	-324.9	1.72	-1.43	0.96	-24.3	16.6	
21,751.0	88.73	178.63	12,650.5	-9,192.0	-323.0	0.51	-0.26	-0.44	-23.0	17.7	
21,846.0	89.32	179.34	12,652.1	-9,287.0	-321.3	0.97	0.62	0.75	-22.0	18.6	
21,941.0	89.75	179.75	12,652.9	-9,382.0	-320.6	0.63	0.45	0.43	-21.8	18.6	
21,989.8	90.38	179.96	12,652.8	-9,430.8	-320.4	1.38	1.29	0.43	-22.2	18.3	
TGT#3 (WW 22 FC #711H)											
22,037.0	90.99	180.16	12,652.2	-9,478.0	-320.5	1.38	1.29	0.43	-23.1	17.8	
22,133.0	91.73	180.41	12,650.0	-9,574.0	-321.0	0.81	0.77	0.28	-26.1	16.5	
22,229.0	92.55	180.94	12,646.4	-9,669.9	-322.1	1.02	0.85	0.55	-30.4	14.6	
22,325.0	90.99	180.67	12,643.4	-9,765.8	-323.4	1.65	-1.62	-0.28	-34.1	12.4	
22,422.0	91.36	181.49	12,641.4	-9,862.8	-325.3	0.93	0.38	0.85	-36.9	9.8	
22,516.0	92.26	181.20	12,638.4	-9,956.7	-327.5	1.01	0.96	-0.31	-40.5	6.8	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Weasel 22 Fed Com
 Well: #711H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #711H
 TVD Reference: KB = 25 @ 3370.0usft
 MD Reference: KB = 25 @ 3370.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
22,613.0	92.97	181.29	12,634.0	-10,053.6	-329.8	0.74	0.73	0.09	-45.7	3.9
22,709.0	94.93	181.79	12,627.4	-10,149.3	-332.1	2.11	2.04	0.52	-53.0	0.5
Last MWD Survey (MD=22709.0')										
22,777.7	94.93	181.79	12,621.5	-10,217.8	-334.3	0.00	0.00	0.00	-59.5	-2.2
PBHL (WW 22 FC #711H)										
22,782.0	94.93	181.79	12,621.1	-10,222.0	-334.4	0.00	0.00	0.00	-59.9	-2.4
Projection to Bit (MD=22782.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
12,110.0	12,080.9	137.7	-478.5	KOP, MD:12110.0', TVD:12080.9', N/S:137.7', E/W:-478.5', INC:2.39
12,231.8	12,201.8	126.0	-478.9	FTP Crossing, MD:12231.8', TVD:12201.8', N/S:126.0', E/W:-478.9', INC:12.34
22,709.0	12,627.4	-10,149.3	-332.1	Last MWD Survey (MD=22709.0')
22,782.0	12,621.1	-10,222.0	-334.4	Projection to Bit (MD=22782.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Key Maddox 2/25/2020
 Signed Date



Lea County, NM (NAD 83 NME)
Wild Weasel 22 Fed Com #711H
Plan #1

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

WELL DETAILS: #711H

KB = 25 @ 3370.0usft
Northing 409442.00 Easting 811177.00
Latitude 32° 7' 21.435 N Longitude 103° 27' 42.125 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2500.0	0.00	0.00	2500.0	0.0	0.0	0.00	0.00	0.0	
3	2800.1	8.00	292.74	2789.5	6.1	-14.5	2.00	292.74	-5.6	
4	6855.2	8.00	292.74	6832.5	189.9	-405.5	0.00	0.00	-156.7	
5	7155.3	0.00	0.00	7132.0	178.0	-420.0	2.00	180.00	-162.3	
6	12144.3	0.00	0.00	12121.0	178.0	-420.0	0.00	0.00	-162.3	
7	12889.3	89.40	179.52	12598.4	-286.5	-416.0	12.00	179.52	309.8	TGT#1 (WW 22 FC #711H)
8	16388.7	89.40	179.52	12635.0	-3785.5	-386.4	0.00	0.00	3806.0	TGT#2 (WW 22 FC #711H)
9	16396.3	89.55	179.52	12635.1	-3803.1	-386.3	2.00	0.00	3813.6	TGT#3 (WW 22 FC #711H)
10	18949.9	89.55	179.52	12655.0	-6366.5	-364.7	0.00	0.00	6365.0	PBHL (WW 22 FC #711H)
11	18953.6	89.53	179.52	12655.0	-6360.2	-364.7	2.00	0.00	6366.7	
12	22024.5	89.53	179.52	12675.0	-9431.0	-338.7	0.00	0.00	9437.0	
13	22027.6	89.57	179.52	12675.0	-9434.1	-338.7	2.00	180.00	9440.1	
14	22816.6	89.57	179.52	12681.0	-10223.0	-332.0	0.00	0.00	10228.4	

CASING DETAILS

No casing data is available

WELLSIDE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Shooting Top (WW 22 FC #711H)	8118.0	116.0	-420.0	409518.00	810767.00
PTP (WW 22 FC #711H)	12335.0	128.0	-420.0	409528.00	810767.00
TGT#1 (WW 22 FC #711H)	12635.0	-3785.5	-386.4	409448.50	810760.61
TGT#2 (WW 22 FC #711H)	12655.0	-6366.5	-364.7	409398.00	810912.28
TGT#3 (WW 22 FC #711H)	12675.0	-9431.0	-338.7	409011.00	810838.30
PBHL (WW 22 FC #711H)	12681.0	-10223.0	-332.0	389219.00	810843.00

