



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Wild Weasel 22 Fed Com

#702H

OH

Design: OH

Midland PVA

24 May, 2019

HOBBS OCD
SEP 26 2019
RECEIVED



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Weasel 22 Fed Com
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3363.0usft
 MD Reference: KB = 25 @ 3363.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 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	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	#702H		
Well Position	+N-S 0.0 usft	Northing:	409,401.00 usft
	+E-W 0.0 usft	Easting:	814,510.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 7' 20.811 N
		Longitude:	103° 27' 3.378 W
		Ground Level:	3,338.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	8/28/2018	6.76
			Dip Angle (°)
			59.97
			Field Strength (nT)
			47,787.87163722

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:		Tie On Depth:	0.0
	Depth From (TVD)	+N-S (usft)	+E-W (usft)
	0.0	0.0	0.0
			Direction (°)
			181.08

Survey Program	Date 5/24/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
200.0	22,794.0	Newsco MWD (OH)	MWD
			Description
			OWSG MWD - Standard



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Wessel 22 Fed Com
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3363.0usft
 MD Reference: KB = 25 @ 3363.0usft
 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
200.0	1.20	163.60	200.0	-2.0	0.6	0.60	0.60	0.00	-2.1	0.0
377.0	1.10	199.10	377.0	-5.4	0.6	0.40	-0.06	20.06	-4.9	2.3
562.0	1.20	185.70	561.9	-9.0	-0.2	0.15	0.05	-7.24	-9.0	0.7
688.0	0.80	220.20	687.9	-11.0	-0.9	0.56	-0.32	27.36	-9.0	6.4
873.0	0.60	205.60	872.9	-12.8	-2.2	0.14	-0.11	-7.89	-12.5	3.6
958.0	0.90	226.50	958.9	-13.7	-2.9	0.47	0.35	24.30	-11.5	8.0
1,150.0	2.90	325.40	1,149.8	-10.8	-8.7	1.66	1.05	51.78	5.5	11.5
1,337.0	11.60	331.10	1,335.1	9.6	-18.5	4.66	4.65	3.05	-8.2	8.2
1,525.0	9.80	321.00	1,519.9	38.6	-37.7	1.38	-0.98	-5.37	-28.2	0.4
1,712.0	7.00	309.40	1,704.8	58.2	-56.5	1.74	-1.50	-6.20	-38.5	-8.1
1,900.0	6.90	310.10	1,891.5	72.8	-74.0	0.07	-0.05	0.37	-45.0	-7.2
2,087.0	6.70	310.10	2,077.1	87.0	-90.9	0.11	-0.11	0.00	-50.9	-7.0
2,274.0	6.80	310.10	2,262.9	101.2	-107.7	0.05	0.05	0.00	-56.6	-6.8
2,461.0	6.70	310.10	2,448.6	115.3	-124.6	0.05	-0.05	0.00	-62.3	-6.6
2,648.0	6.90	311.50	2,634.2	129.8	-141.3	0.14	0.11	0.75	-68.3	-5.0
2,835.0	6.80	313.60	2,819.9	144.9	-157.7	0.14	-0.05	1.12	-74.5	-2.9
3,022.0	6.60	316.60	3,005.6	160.3	-173.2	0.22	-0.11	1.60	-80.2	-0.1
3,210.0	7.10	297.80	3,192.3	173.6	-190.9	1.22	0.27	-10.00	-81.8	-25.6
3,397.0	7.00	304.20	3,377.9	185.4	-210.5	0.42	-0.05	3.42	-80.9	-13.2
3,584.0	6.40	309.50	3,563.6	198.4	-228.0	0.46	-0.32	2.83	-97.2	-3.3
3,772.0	6.20	303.70	3,750.5	210.7	-244.5	0.35	-0.11	-3.09	-100.7	-12.1
3,960.0	5.90	312.40	3,937.4	222.9	-260.1	0.51	-0.16	4.63	-104.7	4.3
4,148.0	4.90	318.80	4,122.6	235.3	-272.4	0.63	-0.54	3.44	-105.0	14.7
4,333.0	3.60	334.80	4,309.1	246.6	-280.1	0.93	-0.70	6.56	-95.5	38.6
4,520.0	3.00	3.80	4,495.6	256.8	-282.3	0.94	-0.32	15.51	-65.2	69.8
4,708.0	3.70	65.60	4,683.5	264.2	-276.5	1.86	0.37	32.87	15.2	76.9



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3363.0usft
Site:	Wild Weasel 22 Fed Com	MD Reference:	KB = 25 @ 3363.0usft
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)	
4,895.0	3.90	71.60	4,870.1	268.7	-264.9	0.24	0.11	3.21	2.9	64.4	
5,083.0	5.60	94.80	5,057.5	270.0	-249.7	1.35	0.90	12.34	-0.2	50.8	
5,270.0	0.90	203.70	5,244.2	267.9	-241.2	3.18	-2.51	58.24	44.7	7.5	
5,458.0	1.00	218.80	5,432.2	265.2	-242.8	0.14	0.05	8.03	41.5	10.6	
5,645.0	0.90	241.70	5,619.2	263.3	-245.1	0.21	-0.05	12.25	40.8	-2.2	
5,832.0	0.80	248.60	5,806.1	262.1	-247.7	0.08	-0.05	3.69	37.4	-6.9	
6,018.0	0.90	231.00	5,992.1	260.7	-250.0	0.15	0.05	-8.46	35.1	4.3	
6,206.0	1.00	252.40	6,180.1	259.3	-252.7	0.19	0.05	11.38	31.2	-8.2	
6,393.0	1.30	228.20	6,367.1	257.4	-255.8	0.30	0.16	-12.94	28.3	4.6	
6,579.0	1.20	211.00	6,553.0	254.3	-258.4	0.21	-0.05	-9.25	21.7	12.2	
6,765.0	1.00	226.60	6,739.0	251.5	-260.6	0.19	-0.11	8.39	20.6	6.4	
6,952.0	1.10	258.80	6,925.9	250.0	-263.6	0.32	0.05	17.22	17.7	-4.7	
7,140.0	1.40	256.40	7,113.9	249.2	-267.6	0.16	0.16	-1.28	13.8	-4.0	
7,327.0	1.80	247.30	7,300.8	247.5	-272.5	0.25	0.21	-4.87	9.0	-2.2	
7,515.0	1.40	261.10	7,488.8	246.0	-277.5	0.29	-0.21	7.34	3.1	-3.6	
7,702.0	0.10	247.40	7,675.7	245.6	-279.9	0.70	-0.70	-7.33	1.5	-3.3	
7,890.0	0.20	21.40	7,863.7	245.6	-279.9	0.15	0.05	71.28	-3.6	1.3	
8,077.0	0.60	191.60	8,050.7	245.2	-280.0	0.43	0.21	91.12	3.1	-0.6	
8,264.0	0.70	192.50	8,237.7	243.1	-280.4	0.05	0.05	0.37	1.0	-0.7	
8,452.0	0.80	192.80	8,425.7	240.7	-281.0	0.05	0.05	0.16	-1.5	-0.7	
8,639.0	1.10	171.90	8,612.7	237.6	-281.0	0.24	0.16	-11.18	-4.2	-1.6	
8,827.0	1.40	160.40	8,800.6	233.7	-280.0	0.21	0.16	-6.12	-7.8	-2.8	
9,013.0	1.20	165.70	8,986.6	229.7	-278.8	0.13	-0.11	2.85	-12.3	-1.8	
9,106.0	1.10	152.10	9,079.6	227.9	-278.1	0.31	-0.11	-14.62	-13.3	-4.9	
9,293.0	0.70	140.40	9,266.5	225.5	-276.5	0.23	-0.21	-6.26	-15.0	-7.9	
9,480.0	0.70	88.30	9,453.5	224.7	-274.7	0.34	0.00	-28.93	-4.2	-17.7	
9,666.0	1.80	72.60	9,639.5	225.6	-270.7	0.61	0.59	-7.37	-3.9	-18.4	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Weasel 22 Fed Com
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3363.0usft
 MD Reference: KB = 25 @ 3363.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLeg ("/100usft)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)
9,854.0	4.10	41.40	9,827.2	231.5	-263.5	1.45	1.22	-16.60	-3.1	-10.3
10,040.0	3.50	52.50	10,012.8	240.0	-254.6	0.51	-0.32	5.97	-18.9	-17.1
10,228.0	2.80	92.80	10,200.6	243.2	-245.4	1.21	-0.37	21.44	-34.5	2.9
10,414.0	1.70	111.50	10,386.4	242.0	-236.3	0.70	-0.59	10.05	-38.8	15.3
10,601.0	0.70	160.60	10,573.4	239.9	-235.4	0.72	-0.53	26.26	-16.8	41.4
10,788.0	2.20	228.90	10,760.3	236.5	-237.7	1.09	0.80	38.52	28.2	32.0
10,976.0	3.10	285.80	10,948.2	235.5	-245.3	1.40	0.48	30.16	35.2	-3.0
11,163.0	2.10	305.90	11,135.0	238.8	-253.0	0.72	-0.53	10.86	23.8	-13.3
11,350.0	3.30	316.60	11,321.8	244.8	-259.4	0.69	0.64	5.72	12.1	-16.9
11,537.0	3.10	341.30	11,508.5	253.5	-264.7	0.74	-0.11	13.21	-6.0	-18.1
11,723.0	3.40	346.80	11,694.2	263.6	-267.6	0.23	0.16	2.96	-18.2	-17.0
11,898.0	2.70	0.90	11,868.9	272.8	-268.7	0.58	-0.40	8.06	-30.9	-10.8
12,029.0	3.00	23.80	11,999.8	279.0	-267.3	0.89	0.23	17.48	-39.0	3.3
12,122.0	7.50	192.60	12,092.6	275.3	-267.7	11.25	4.84	181.51	35.2	4.8
12,215.0	24.40	192.50	12,181.7	250.4	-273.2	18.17	18.17	-0.11	16.0	3.6
12,309.0	30.40	196.20	12,265.1	208.6	-284.0	6.63	6.38	3.94	-5.4	-3.0
12,402.0	37.60	190.90	12,342.1	158.1	-286.0	8.37	7.74	-5.70	-18.9	-13.8
12,485.0	50.60	188.30	12,408.8	94.4	-306.6	14.11	13.98	-2.80	-29.6	-24.9
12,589.0	67.50	186.00	12,457.0	14.7	-316.4	18.10	17.98	-2.45	-44.8	-36.3
12,683.0	69.90	185.40	12,491.1	-72.5	-325.1	2.62	2.55	-0.64	-57.3	-45.5
12,776.0	68.60	183.90	12,524.1	-159.2	-332.2	2.06	-1.40	-1.61	-49.2	-54.8
12,823.0	71.40	180.30	12,540.1	-203.3	-333.8	9.34	5.96	-7.66	-37.5	-57.9
12,870.0	75.30	177.90	12,553.6	-248.3	-333.1	9.63	6.30	-5.11	-25.0	-57.6
12,964.0	80.40	178.30	12,573.4	-340.1	-330.0	5.44	5.43	0.43	-6.6	-54.9
13,057.0	85.10	175.90	12,585.1	-432.2	-325.3	5.66	5.05	-2.58	4.5	-51.0
13,152.0	91.50	174.70	12,587.9	-526.8	-317.6	6.65	6.74	-1.26	6.3	-44.0
13,246.0	89.50	171.60	12,587.1	-620.1	-306.6	3.66	-2.13	-2.98	4.9	-33.8



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Weasel 22 Fed Com
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3363.0usft
 MD Reference: KB = 25 @ 3363.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NIS (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
13,339.0	89.60	171.60	12,587.8	-712.2	-283.3	0.34	0.11	-0.32	5.0	-21.2
13,432.0	82.30	171.70	12,594.4	-803.9	-279.8	7.85	-7.85	0.11	10.9	-8.5
13,526.0	88.00	177.70	12,604.0	-897.0	-271.2	7.47	3.94	6.38	18.7	-0.7
13,618.0	87.80	177.80	12,608.9	-989.7	-267.5	2.05	2.04	0.11	24.0	2.2
13,712.0	88.50	177.00	12,611.9	-1,082.6	-263.3	1.07	0.65	-0.86	26.0	5.6
13,806.0	88.80	175.80	12,614.0	-1,176.4	-257.4	1.35	0.43	-1.28	27.2	10.7
13,900.0	90.50	180.70	12,614.5	-1,270.3	-254.5	5.48	1.70	5.21	26.7	12.8
13,994.0	92.70	180.30	12,611.9	-1,364.3	-255.4	2.38	2.34	-0.43	23.2	11.2
14,088.0	89.30	179.00	12,610.2	-1,458.2	-254.8	3.87	-3.62	-1.38	20.6	11.0
14,182.0	90.20	178.70	12,610.6	-1,552.2	-252.9	1.01	0.86	-0.32	20.1	12.1
14,275.0	91.40	178.00	12,609.3	-1,645.2	-250.2	1.49	1.29	-0.75	17.8	14.0
14,369.0	94.50	178.60	12,604.5	-1,739.0	-247.4	3.36	3.30	0.64	12.1	16.0
14,462.0	91.20	181.60	12,599.9	-1,831.9	-247.6	4.79	-3.55	3.23	6.5	15.0
14,556.0	88.80	180.40	12,599.9	-1,925.8	-249.2	2.85	-2.55	-1.28	5.6	12.6
14,649.0	87.50	180.30	12,602.9	-2,018.8	-249.8	1.40	-1.40	-0.11	7.7	11.3
14,743.0	88.50	180.20	12,607.8	-2,112.6	-250.2	1.07	-1.06	-0.11	11.6	10.1
14,836.0	89.50	180.20	12,611.0	-2,205.6	-250.5	3.23	3.23	0.00	13.9	9.0
14,929.0	89.70	179.30	12,611.7	-2,298.6	-250.1	0.99	0.22	-0.97	13.7	8.6
15,023.0	89.80	179.30	12,612.1	-2,392.6	-249.0	0.11	0.11	0.00	13.1	9.0
15,117.0	85.80	177.00	12,615.7	-2,486.4	-246.0	4.91	-4.26	-2.45	15.8	11.2
15,211.0	87.10	178.70	12,621.5	-2,580.2	-242.4	2.27	1.38	1.81	20.9	14.0
15,304.0	89.20	179.30	12,624.5	-2,673.1	-240.8	2.35	2.26	0.65	23.2	14.8
15,397.0	90.50	180.00	12,624.8	-2,766.1	-240.3	1.59	1.40	0.75	22.7	14.6
15,491.0	90.00	179.30	12,624.4	-2,860.1	-239.7	0.92	-0.53	-0.74	21.6	14.4
15,585.0	89.70	179.50	12,624.6	-2,954.1	-238.7	0.38	-0.32	0.21	21.2	14.6
15,679.0	89.30	178.80	12,625.4	-3,048.1	-237.3	0.86	-0.43	-0.74	21.3	15.2
15,773.0	91.70	182.10	12,624.6	-3,142.0	-238.0	4.34	2.55	3.51	19.8	13.6



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Weasel 22 Fed Com
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3383.0usft
 MD Reference: KB = 25 @ 3383.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

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)
15,867.0	92.90	180.40	12,620.8	-3,235.9	-240.1	2.21	1.28	-1.81	15.3	10.8
15,961.0	91.00	180.50	12,617.6	-3,329.9	-240.8	2.02	-2.02	0.11	11.4	9.3
16,055.0	90.20	181.10	12,616.7	-3,423.9	-242.1	1.06	-0.85	0.84	9.7	7.2
16,149.0	89.40	180.50	12,617.0	-3,517.9	-243.5	1.06	-0.85	-0.64	9.3	5.1
16,242.0	88.50	180.50	12,617.9	-3,610.8	-244.3	0.11	0.11	0.00	9.5	3.5
16,336.0	88.40	179.60	12,619.8	-3,704.8	-244.3	1.51	-1.17	-0.96	10.5	2.8
16,430.0	88.70	179.70	12,622.0	-3,788.8	-243.8	0.34	0.32	0.11	12.2	2.4
16,524.0	89.50	180.20	12,623.5	-3,892.8	-243.7	1.00	0.85	0.53	13.0	1.7
16,618.0	91.60	180.20	12,622.6	-3,986.8	-244.0	2.23	2.23	0.00	11.4	0.6
16,711.0	89.50	179.50	12,621.7	-4,079.8	-243.8	2.38	-2.26	-0.75	9.8	0.1
16,805.0	89.70	180.20	12,622.3	-4,173.8	-243.5	0.77	0.21	0.74	9.7	-0.5
16,898.0	89.20	178.60	12,623.2	-4,266.7	-242.6	1.80	-0.54	-1.72	9.9	-0.3
16,992.0	91.10	178.70	12,623.0	-4,360.7	-240.3	2.02	2.02	0.11	9.0	1.2
17,085.0	90.30	177.00	12,621.8	-4,453.6	-236.9	2.02	-0.86	-1.83	7.1	3.9
17,179.0	90.90	174.50	12,620.8	-4,547.4	-229.9	2.73	0.64	-2.68	5.4	10.0
17,272.0	87.80	178.20	12,621.9	-4,640.0	-222.3	3.80	-3.33	1.83	5.4	16.8
17,366.0	89.90	179.40	12,623.8	-4,733.9	-218.7	4.07	2.23	3.40	6.4	16.6
17,459.0	93.50	182.80	12,621.0	-4,826.8	-220.5	5.32	3.87	3.66	2.7	17.1
17,553.0	89.60	185.00	12,618.5	-4,920.6	-226.9	4.78	-4.15	2.34	-0.8	9.9
17,646.0	89.90	186.30	12,618.9	-5,013.1	-236.1	1.43	0.32	1.40	-1.3	0.0
17,741.0	87.50	185.60	12,621.0	-5,107.6	-245.9	2.63	-2.53	-0.74	-0.1	-10.7
17,834.0	84.60	181.00	12,627.5	-5,200.2	-251.3	5.84	-3.12	-4.85	5.4	-16.8
17,928.0	88.00	180.20	12,633.5	-5,293.9	-252.2	3.72	3.62	-0.85	10.5	-18.6
18,022.0	88.70	178.80	12,636.2	-5,387.9	-251.4	1.66	0.74	-1.49	12.3	-18.5
18,116.0	88.20	179.20	12,638.8	-5,481.9	-249.8	0.68	-0.53	0.43	13.9	-17.7
18,208.0	89.40	179.40	12,640.7	-5,573.8	-248.7	1.32	1.30	0.22	15.0	-17.3
18,301.0	90.70	181.70	12,640.6	-5,666.8	-249.5	2.84	1.40	2.47	14.0	-19.0



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Weasel 22 Fed Com
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3363.0usft
 MD Reference: KB = 25 @ 3363.0usft
 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)	DLog (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
18,395.0	92.60	180.70	12,637.9	-5,760.7	-251.5	2.28	2.02	-1.06	10.4	-21.7
18,489.0	92.40	179.90	12,633.8	-5,854.7	-252.0	0.88	-0.21	-0.85	5.4	-23.0
18,582.0	92.70	180.90	12,628.7	-5,947.6	-252.7	1.12	0.32	1.08	0.3	-24.4
18,676.0	89.90	179.80	12,627.5	-6,041.5	-253.2	3.20	-2.98	-1.17	-2.7	-25.8
18,769.0	89.90	178.60	12,627.7	-6,134.5	-251.9	1.29	0.00	-1.29	-3.5	-25.3
18,863.0	89.90	178.20	12,627.9	-6,228.5	-249.3	0.43	0.00	-0.43	-4.2	-23.4
18,957.0	90.20	178.10	12,627.8	-6,322.4	-246.3	0.34	0.32	-0.11	-5.2	-21.2
19,051.0	90.90	178.50	12,626.9	-6,416.4	-243.5	0.86	0.74	0.43	-7.0	-19.2
19,144.0	83.40	179.70	12,631.5	-6,509.2	-242.0	8.17	-8.06	1.29	-3.3	-18.5
19,238.0	88.60	179.10	12,639.7	-6,602.8	-241.0	3.46	3.40	-0.84	4.0	-18.3
19,332.0	88.40	177.40	12,643.0	-6,696.7	-238.2	3.48	2.98	-1.81	6.4	-16.2
19,425.0	89.50	177.10	12,643.9	-6,789.6	-233.7	0.34	0.11	-0.32	6.4	-12.5
19,519.0	91.00	177.30	12,643.5	-6,883.5	-229.1	1.81	1.60	0.21	5.1	-8.7
19,612.0	90.20	178.50	12,642.5	-6,976.4	-225.7	1.55	-0.86	1.29	3.2	-6.1
19,706.0	88.70	177.60	12,643.4	-7,070.3	-222.5	1.88	-1.60	-0.96	3.2	-3.7
19,799.0	88.50	177.60	12,647.3	-7,163.2	-218.6	2.37	-2.37	0.00	6.2	-0.6
19,893.0	90.70	179.50	12,649.6	-7,257.1	-216.2	4.90	4.47	2.02	7.6	1.0
19,987.0	90.70	178.90	12,648.4	-7,351.1	-214.9	0.64	0.00	-0.64	5.5	1.5
20,080.0	86.60	178.10	12,650.6	-7,444.0	-212.5	4.49	-4.41	-0.86	6.8	3.2
20,173.0	87.60	178.90	12,655.3	-7,536.8	-210.1	1.38	1.08	0.86	10.6	4.8
20,196.0	90.10	179.30	12,655.8	-7,559.8	-209.7	11.01	10.87	1.74	10.9	5.0
20,204.0	91.40	179.70	12,655.7	-7,567.8	-209.6	17.00	16.25	5.00	10.7	5.0
20,230.0	91.80	179.90	12,655.0	-7,593.8	-209.5	1.72	1.54	0.77	9.7	4.9
20,287.0	93.40	179.60	12,653.3	-7,630.8	-209.4	4.40	4.32	-0.81	7.7	4.8
20,312.0	93.20	179.30	12,650.7	-7,675.7	-209.0	0.80	-0.44	-0.67	4.6	4.8
20,360.0	94.20	179.50	12,647.6	-7,723.6	-208.5	2.12	2.08	0.42	1.1	4.9
20,453.0	93.70	179.80	12,641.2	-7,816.4	-207.9	0.63	-0.54	0.32	-6.2	4.7



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #702H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3383.0usft
Site:	Wild Weasel 22 Fed Com	MD Reference:	KB = 25 @ 3383.0usft
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)	
20,546.0	92.20	180.30	12,836.4	-7,909.2	-208.0	1.70	-1.81	0.54	-11.9	3.8	
20,639.0	92.00	180.00	12,833.0	-8,002.2	-208.2	0.39	-0.22	-0.32	-16.2	2.8	
20,732.0	88.80	179.50	12,631.5	-8,095.2	-207.8	2.43	-2.37	-0.54	-18.6	2.4	
20,828.0	88.70	180.20	12,632.8	-8,189.2	-207.6	1.39	-1.17	0.74	-18.2	1.9	
20,920.0	88.40	179.90	12,635.1	-8,283.1	-207.6	0.45	-0.32	-0.32	-16.8	1.0	
21,013.0	86.50	178.70	12,639.3	-8,376.0	-206.5	2.42	-2.04	-1.29	-13.5	1.4	
21,107.0	91.10	181.30	12,641.2	-8,470.0	-206.5	5.62	4.89	2.77	-12.5	0.6	
21,199.0	91.20	180.60	12,639.4	-8,561.9	-208.0	0.77	0.11	-0.78	-15.2	-1.7	
21,292.0	90.90	178.00	12,637.7	-8,654.9	-208.9	2.81	-0.32	-2.80	-17.8	-1.3	
21,385.0	92.60	180.80	12,634.8	-8,747.8	-205.9	3.52	1.83	3.01	-21.5	-1.1	
21,478.0	91.50	181.20	12,631.5	-8,841.8	-207.6	1.25	-1.17	0.43	-25.8	-3.6	
21,573.0	90.80	180.80	12,628.6	-8,935.7	-209.2	0.86	-0.74	-0.43	-28.6	-6.0	
21,632.0	91.50	182.60	12,628.4	-8,994.7	-211.0	3.27	1.19	3.05	-30.4	-8.2	
21,698.0	91.50	179.40	12,626.7	-9,060.7	-212.1	4.85	0.00	-4.85	-32.7	-9.9	
21,713.0	90.30	178.60	12,626.5	-9,075.6	-211.8	9.61	-8.00	-5.33	-33.1	-9.8	
21,728.0	88.60	177.90	12,626.6	-9,091.6	-211.4	11.49	-10.62	-4.37	-33.1	-9.4	
21,745.0	86.30	177.30	12,627.3	-9,107.6	-210.7	14.66	-14.37	-3.75	-32.5	-8.9	
21,760.0	85.90	177.30	12,628.3	-9,122.6	-210.0	2.67	-2.67	0.00	-31.7	-8.4	
21,791.0	86.40	177.30	12,630.4	-9,153.5	-208.5	1.61	1.61	0.00	-29.9	-7.1	
21,853.0	86.20	177.60	12,634.4	-9,215.3	-205.8	0.58	-0.32	0.48	-26.5	-4.9	
21,884.0	85.80	177.90	12,636.6	-9,246.2	-204.6	1.61	-1.29	0.97	-24.6	-4.0	
21,946.0	86.40	177.40	12,640.8	-9,308.0	-202.0	1.26	0.97	-0.81	-21.0	-1.9	
21,977.0	87.10	177.90	12,642.6	-9,338.9	-200.8	2.77	2.26	1.61	-19.5	-0.9	
22,039.0	86.40	177.20	12,646.1	-9,400.7	-198.1	1.60	-1.13	-1.13	-16.6	1.2	
22,133.0	90.30	178.70	12,648.8	-9,494.6	-194.7	4.44	4.15	1.60	-14.8	3.8	
22,226.0	90.90	178.90	12,647.8	-9,587.6	-192.8	0.68	0.65	0.22	-16.7	5.0	
22,319.0	90.70	178.20	12,646.5	-9,680.5	-190.4	0.78	-0.22	-0.75	-18.9	6.5	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Weasel 22 Fed Com
 Well: #702H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3363.0usft
 MD Reference: KB = 25 @ 3363.0usft
 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)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
22,413.0	91.30	178.70	12,644.9	-9,774.5	-187.9	0.83	0.64	0.53	-21.4	8.3
22,507.0	89.80	178.50	12,644.0	-9,888.5	-185.6	1.61	-1.60	-0.21	-23.3	9.8
22,601.0	86.40	178.40	12,647.1	-9,962.4	-183.1	3.62	-3.62	-0.11	-21.0	11.6
22,694.0	87.10	179.20	12,652.4	-10,055.2	-181.1	1.14	0.75	0.86	-16.7	12.7
22,794.0	87.10	179.20	12,657.4	-10,155.1	-179.7	0.00	0.00	0.00	-12.6	13.3

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,050.0	12,020.8	279.6	-267.0	KOP, MD:12050.0', TVD:12020.8', N/S:279.6', E/W:-267.0', INC:0.74
12,332.2	12,284.9	197.0	-287.2	FTP Crossing, MD:12332.2', TVD:12284.9', N/S:197.0', E/W:-287.2', INC:32.17
22,694.0	12,652.4	-10,055.2	-181.1	Last MWD Survey (MD=22694.0')
22,794.0	12,657.4	-10,155.1	-179.7	Projection to Bit (MD=22794.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Wild Weasel 22 Fed Com #702H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GR8 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #702H

KB = 25 @ 3383.0usft 3358.0
Northing 409401.00 Easting 814510.00 Latitude 32° 7' 20.911 N Longitude 103° 27' 3.376 W

To convert a Magnetic Direction to a Grid Direction, Add 0.29°
To convert a Magnetic Direction to a True Direction, Add 0.78° East
To convert a True Direction to a Grid Direction, Subtract 0.47°

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	1100.0	0.00	0.00	1100.0	0.0	0.0	0.00	0.00	0.0	
3	1350.0	5.00	310.84	1349.7	7.1	-8.2	2.00	310.84	-7.0	
4	5345.8	5.00	310.84	5330.3	234.9	-271.8	0.00	0.00	-229.7	
5	5595.8	0.00	0.00	5580.0	242.0	-280.0	2.00	180.00	-238.6	
6	12117.8	0.00	0.00	12102.0	242.0	-280.0	0.00	0.00	-238.6	
7	12864.4	89.58	179.52	12579.5	-232.0	-278.0	12.00	179.52	237.2	TGT#1(WW 22 FC #702H)
8	13627.5	89.58	179.52	12585.0	-995.1	-269.7	0.00	0.00	1000.0	TGT#2(WW 22 FC #702H)
9	13635.4	89.43	179.52	12585.1	-1002.9	-269.6	2.00	-180.00	1007.9	TGT#4(WW 22 FC #702H)
10	15128.2	89.43	179.52	12600.0	-2495.6	-257.1	0.00	0.00	2500.0	TGT#5(WW 22 FC #702H)
11	15135.4	89.57	179.52	12600.1	-2502.8	-257.0	2.00	0.00	2507.2	
12	17128.9	89.57	179.52	12615.0	-4496.2	-240.4	0.00	0.00	4500.0	
13	17136.1	89.43	179.52	12615.1	-4503.4	-240.3	2.00	180.00	4507.1	
14	18129.4	89.43	179.52	12625.0	-5496.6	-232.0	0.00	0.00	5500.0	
15	18130.4	89.45	179.52	12625.0	-5497.6	-232.0	2.00	0.00	5501.0	
16	22780.2	89.45	179.52	12670.0	-10157.0	-193.0	0.00	0.00	10158.8	PBHL (WW 22 FC #702H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Eastng
Brushy Top(WW 22 FC #702H)	7717.0	242.0	-280.0	409401.00	814230.00
FTP (WW 22 FC #702H)	12578.0	192.0	-280.0	409593.00	814230.00
TGT#1(WW 22 FC #702H)	12588.0	-495.1	-293.7	409428.00	814240.35
TGT#2(WW 22 FC #702H)	12600.0	-363.9	-297.1	409505.40	814282.80
TGT#3(WW 22 FC #702H)	12810.0	-3435.9	-348.7	409308.10	814281.27
TGT#4(WW 22 FC #702H)	12818.0	-4638.2	-340.4	409304.30	814283.84
TGT#5(WW 22 FC #702H)	12828.0	-4638.8	-332.0	409304.40	814278.01
TGT#6(WW 22 FC #702H)	12845.0	-7497.3	-318.3	401803.70	814294.78
PBHL (WW 22 FC #702H)	12670.0	-10157.0	-193.0	399244.00	814317.00

