



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Wild Weasel 22 Fed Com

#704H

OH

Design: OH

Final PVA Report

10 July, 2019



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3361.0usft
Site:	Wild Weasel 22 Fed Com	MD Reference:	KB = 22' @ 3361.0usft
Well:	#704H	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	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	#704H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	8/28/2018	6.76
			Dip Angle
			59.97
			Field Strength
			47,767.77755726

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			180.53

Survey Program	Date 7/10/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
218.0	22,688.0	Leam MWD #1 (OH)	MWD
			Description
			OWSG MWD - Standard



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Well: #704H
Wellbore: OH
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Local Co-ordinate Reference: Well #704H
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MD Reference: KB = 22' @ 3361.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Survey

MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Buile ("/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
218.0	0.53	101.62	218.0	-0.2	1.0	0.24	0.24	0.00	-1.0	0.0
399.0	0.51	88.43	399.0	-0.1	2.6	0.18	-0.01	-18.34	-2.3	-1.0
581.0	0.40	85.21	581.0	0.3	3.9	0.09	-0.08	9.22	-4.0	-0.1
775.0	0.17	137.68	775.0	0.1	4.8	0.17	-0.12	27.05	-3.2	3.6
945.0	0.33	138.84	945.0	-0.4	5.3	0.09	0.09	0.68	-3.8	3.7
1,068.0	0.44	115.13	1,068.0	-0.9	6.0	0.16	0.09	-19.28	-5.8	1.7
1,258.0	2.11	351.38	1,257.9	2.2	6.1	1.25	0.88	-65.13	2.5	-8.4
1,448.0	5.01	340.49	1,447.8	13.5	2.8	1.56	1.53	-5.73	5.3	-12.5
1,637.0	4.75	338.90	1,635.9	28.6	-2.8	0.16	-0.14	-0.84	3.1	-16.3
1,825.0	4.57	339.96	1,823.2	42.9	-8.1	0.11	-0.10	0.56	0.8	-20.3
2,015.0	4.48	342.24	2,012.7	57.1	-13.0	0.11	-0.05	1.20	-1.6	-24.6
2,203.0	4.22	346.29	2,200.1	70.8	-16.9	0.21	-0.14	2.15	-4.8	-29.4
2,393.0	4.31	350.51	2,389.6	84.6	-19.7	0.17	0.05	2.22	-8.5	-34.9
2,583.0	4.57	338.90	2,579.0	98.7	-23.6	0.49	0.14	-6.11	-2.3	-41.1
2,773.0	4.40	353.14	2,768.4	113.0	-27.2	0.59	-0.09	7.49	-14.7	-44.5
2,963.0	4.31	328.88	2,957.9	126.4	-31.8	0.98	-0.05	-12.77	5.0	-51.0
3,152.0	4.84	344.35	3,146.3	140.1	-37.6	0.71	0.28	8.19	-10.4	-53.7
3,343.0	5.72	357.71	3,336.5	157.4	-40.1	0.79	0.46	6.89	-28.2	-56.0
3,532.0	5.01	336.27	3,524.7	174.4	-43.8	1.12	-0.38	-11.34	-9.2	-69.0
3,722.0	3.61	304.28	3,714.2	185.3	-52.1	1.44	-0.74	-16.84	29.0	-63.3
3,912.0	3.25	311.83	3,903.8	192.3	-61.1	0.30	-0.19	3.97	22.9	-63.0
4,102.0	2.29	322.73	4,093.6	198.9	-67.4	0.57	-0.51	5.74	15.6	-65.0
4,292.0	1.41	321.68	4,283.5	203.8	-71.1	0.46	-0.46	-0.55	24.8	-64.5
4,481.0	0.88	129.02	4,472.5	204.7	-71.5	1.20	-0.28	88.54	-51.0	54.6
4,671.0	2.37	228.34	4,662.4	201.2	-73.3	1.40	0.78	52.27	57.3	58.9
4,861.0	0.62	249.78	4,852.4	198.2	-77.2	0.95	-0.92	11.28	73.5	47.0



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Site:	Wild Weasel 22 Fed Com					MD Reference:	KB = 22' @ 3361.0usft				
Well:	#704H					North Reference:	Grid				
Wellbore:	OH					Survey Calculation Method:	Minimum Curvature				
Design:	OH					Database:	EDM 5000.14				

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,051.0	1.87	338.73	5,042.3	200.4	-79.1	0.93	0.55	46.82	59.3	-75.3	
5,241.0	3.78	278.26	5,232.2	203.9	-88.3	1.73	1.11	-31.83	96.6	21.4	
5,431.0	3.25	277.38	5,421.8	205.5	-97.9	0.28	-0.28	-0.46	87.1	25.6	
5,621.0	3.43	280.72	5,611.5	207.2	-108.8	0.14	0.09	1.76	77.4	20.8	
5,810.0	2.73	277.56	5,800.2	208.9	-118.8	0.38	-0.37	-1.67	66.0	24.7	
6,000.0	2.37	275.45	5,990.0	209.8	-127.2	0.20	-0.19	-1.11	56.6	26.9	
6,190.0	2.20	276.33	6,179.9	210.6	-134.7	0.09	-0.09	0.46	49.4	28.1	
6,379.0	1.58	279.31	6,368.8	211.4	-140.9	0.33	-0.33	1.58	44.5	23.7	
6,569.0	1.23	275.10	6,558.7	212.0	-145.5	0.19	-0.18	-2.22	38.0	26.7	
6,759.0	1.41	280.90	6,748.6	212.7	-149.9	0.12	0.09	3.05	36.1	22.9	
6,948.0	1.32	282.30	6,937.6	213.6	-154.3	0.05	-0.05	0.74	32.2	22.1	
7,138.0	1.06	272.99	7,127.6	214.1	-158.2	0.17	-0.14	-4.90	24.3	26.6	
7,328.0	0.79	273.34	7,317.5	214.3	-161.2	0.14	-0.14	0.18	21.4	26.5	
7,518.0	0.88	262.97	7,507.5	214.2	-164.0	0.09	0.05	-5.46	13.5	29.7	
7,708.0	0.97	228.51	7,697.5	213.0	-166.6	0.29	0.05	-18.14	-8.5	31.3	
7,723.3	0.98	227.50	7,712.8	212.8	-166.8	0.14	0.08	-8.62	-9.3	31.1	
Brushy Top (WW 22 FC #704H)											
7,898.0	1.14	217.61	7,887.5	210.4	-169.0	0.14	0.09	-5.66	-17.7	28.8	
8,088.0	1.23	200.39	8,077.4	207.0	-170.9	0.19	0.05	-9.06	-29.3	21.7	
8,277.0	1.67	183.69	8,266.4	202.3	-171.7	0.32	0.23	-8.84	-39.0	11.8	
8,467.0	1.67	175.43	8,456.3	198.8	-171.7	0.13	0.00	-4.35	-45.8	5.7	
8,645.5	1.67	165.46	8,634.7	191.7	-170.8	0.16	0.00	-5.58	-51.2	-2.8	
HL Crossing, MD:8645.5', TVD:8634.7', N/S:191.7', E/W:-170.8', INC:1.67											
8,656.0	1.67	164.88	8,645.2	191.4	-170.8	0.16	0.01	-5.56	-51.5	-3.3	
8,846.0	1.41	150.82	8,835.1	186.7	-168.9	0.24	-0.14	-7.40	-54.2	-16.4	
9,034.0	1.49	154.33	9,023.1	182.5	-166.7	0.06	0.04	1.87	-59.8	-12.9	
9,224.0	0.97	140.27	9,213.0	179.0	-164.6	0.31	-0.27	-7.40	-58.9	-27.7	



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Wellbore: OH		Survey Calculation Method: Minimum Curvature	
Design: OH		Database: EDM 5000.14	

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
9,414.0	0.97	125.51	9,403.0	176.8	-162.3	0.13	0.00	-7.77	-53.1	-42.2	
9,604.0	0.88	107.58	9,593.0	175.5	-159.6	0.16	-0.05	-9.44	-40.5	-57.0	
9,783.0	0.79	94.92	9,781.9	174.9	-156.9	0.11	-0.05	-6.70	-29.8	-64.8	
9,983.0	0.62	53.08	9,971.9	175.4	-154.8	0.28	-0.09	-22.02	19.0	-69.0	
10,173.0	1.49	8.96	10,161.9	178.5	-153.6	0.60	0.46	-23.22	58.5	-37.0	
10,363.0	1.32	344.00	10,351.8	183.0	-153.8	0.33	-0.09	-13.14	64.2	-9.9	
10,553.0	1.14	358.42	10,541.8	187.0	-154.4	0.19	-0.09	7.59	55.7	-25.0	
10,742.0	0.62	200.92	10,730.8	187.9	-154.9	0.91	-0.28	-83.33	-41.2	43.7	
10,932.0	0.18	51.85	10,920.8	187.2	-155.0	0.41	-0.23	-78.46	13.4	-59.2	
11,122.0	1.49	31.81	11,110.8	189.4	-153.4	0.70	0.69	-10.55	30.1	-51.1	
11,312.0	1.67	163.47	11,300.7	188.9	-151.4	1.52	0.09	69.29	-59.4	13.3	
11,502.0	0.88	141.33	11,490.7	185.1	-149.7	0.48	-0.42	-11.65	-64.0	-11.1	
11,692.0	0.79	176.13	11,680.7	182.6	-148.7	0.27	-0.05	18.32	-61.4	28.3	
11,881.0	1.06	259.63	11,869.6	181.0	-150.3	0.66	0.14	44.18	19.2	65.5	
11,956.0	0.88	252.07	11,944.6	180.7	-151.5	0.29	-0.24	-10.08	9.2	67.4	
12,016.0	0.88	252.95	12,004.6	180.5	-152.4	0.02	0.00	1.47	9.3	67.2	
12,103.0	8.44	182.28	12,091.3	173.9	-153.3	9.41	8.69	-81.23	-66.9	30.7	
12,198.0	27.00	180.35	12,181.4	145.1	-153.7	19.54	19.54	-2.03	-94.9	30.0	
12,292.0	38.08	181.05	12,260.5	94.6	-154.4	11.79	11.79	0.74	-129.0	30.4	
12,388.0	42.03	181.05	12,334.0	32.8	-155.5	4.11	4.11	0.00	-152.5	27.3	
12,481.3	48.14	177.91	12,399.8	-33.1	-154.8	6.97	6.55	-3.36	-157.6	21.1	
FTP (WW 22 FC #704H)											
12,482.0	48.19	177.89	12,400.3	-33.7	-154.8	6.97	6.60	-3.03	-157.6	21.1	
12,578.0	54.52	178.94	12,460.2	-108.6	-152.7	6.65	6.59	1.09	-143.7	25.4	
12,672.0	56.37	178.06	12,513.5	-186.0	-150.7	2.11	1.97	-0.94	-111.4	29.0	
12,767.0	63.22	178.59	12,561.3	-268.0	-148.3	7.23	7.21	0.56	-66.7	31.0	
12,814.0	67.71	181.40	12,580.8	-310.7	-148.3	10.99	9.55	5.98	-47.6	29.8	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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Survey											
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12,862.0	71.14	182.28	12,597.7	-355.7	-149.8	7.35	7.15	1.83	-31.3	27.2	
12,909.0	73.95	183.34	12,611.8	-400.4	-152.0	6.35	5.98	2.26	-17.7	24.2	
12,956.0	77.29	185.10	12,623.5	-445.8	-155.3	7.98	7.11	3.74	-6.6	20.1	
13,003.0	81.87	185.62	12,632.0	-491.8	-159.7	9.81	9.74	1.11	1.3	15.2	
13,051.0	87.58	184.22	12,638.4	-539.4	-163.8	12.24	11.90	-2.92	5.2	10.7	
13,146.0	90.48	184.74	12,638.0	-634.1	-171.2	3.10	3.05	0.55	6.0	2.5	
13,241.0	90.04	182.81	12,637.5	-728.9	-177.4	2.08	-0.46	-2.03	4.8	-4.6	
13,359.0	88.29	183.86	12,639.3	-846.7	-184.3	1.73	-1.48	0.89	5.6	-12.4	
13,454.0	86.00	180.88	12,644.0	-941.5	-188.2	3.95	-2.41	-3.14	9.6	-17.1	
13,549.0	85.47	182.63	12,651.1	-1,036.2	-191.1	1.92	-0.56	1.84	15.9	-20.9	
13,643.0	86.00	180.17	12,658.1	-1,129.9	-193.4	2.67	0.56	-2.62	22.2	-23.9	
13,715.0	86.44	179.82	12,662.8	-1,201.7	-193.4	0.78	0.61	-0.49	26.4	-24.5	
13,810.0	88.20	178.06	12,667.2	-1,296.6	-191.6	2.62	1.85	-1.85	30.1	-23.5	
13,905.0	90.75	177.36	12,668.1	-1,391.5	-187.9	2.78	2.68	-0.74	30.3	-20.5	
14,000.0	90.40	177.89	12,667.2	-1,486.4	-183.9	0.67	-0.37	0.56	28.6	-17.4	
14,095.0	91.28	178.06	12,665.8	-1,581.3	-180.6	0.94	0.93	0.18	26.4	-14.8	
14,180.0	90.31	177.71	12,664.4	-1,676.3	-177.1	1.09	-1.02	-0.37	24.4	-12.1	
14,284.0	90.82	179.29	12,663.4	-1,770.2	-174.6	1.80	0.65	1.68	22.6	-10.4	
14,379.0	87.32	177.36	12,664.9	-1,865.2	-171.8	4.30	-3.79	-2.03	23.4	-8.4	
14,474.0	89.96	180.70	12,667.2	-1,960.1	-170.2	4.48	2.78	3.52	24.9	-7.6	
14,569.0	90.57	182.99	12,666.7	-2,055.0	-173.3	2.49	0.64	2.41	23.7	-11.5	
14,664.0	93.21	187.03	12,663.6	-2,149.6	-181.6	5.08	2.78	4.25	20.0	-20.4	
14,758.0	90.66	180.70	12,660.4	-2,243.3	-187.9	7.26	-2.71	-6.73	15.9	-27.7	
14,853.0	91.80	182.99	12,658.4	-2,338.2	-190.9	2.69	1.20	2.41	13.2	-31.5	
14,948.0	88.11	178.94	12,658.4	-2,433.1	-192.5	5.77	-3.88	-4.26	12.5	-33.9	
15,043.0	88.64	175.60	12,661.1	-2,528.0	-188.0	3.56	0.58	-3.52	14.5	-30.2	
15,138.0	89.08	173.49	12,663.0	-2,622.5	-179.0	2.27	0.46	-2.22	15.7	-21.9	



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15,233.0	88.55	175.08	12,665.0	-2,717.0	-169.5	1.78	-0.58	1.67	16.9	-13.2	
15,328.0	88.90	178.83	12,667.1	-2,811.8	-182.8	1.88	0.37	1.84	18.2	-7.4	
15,423.0	88.99	179.47	12,668.9	-2,906.7	-159.8	2.78	0.09	2.78	19.2	-5.1	
15,496.0	90.40	177.19	12,669.2	-2,979.7	-157.6	3.67	1.93	-3.12	19.0	-3.6	
15,515.0	90.40	175.43	12,669.1	-2,998.6	-156.4	9.26	0.00	-9.26	18.8	-2.5	
15,610.0	88.02	171.56	12,670.4	-3,093.0	-145.7	4.78	-2.51	-4.07	19.4	7.4	
15,704.0	88.90	177.19	12,672.9	-3,186.4	-136.5	6.06	0.94	5.99	21.1	15.9	
15,798.0	89.43	182.46	12,674.3	-3,280.4	-136.2	5.63	0.56	5.61	21.8	15.3	
15,893.0	89.86	185.10	12,674.8	-3,375.2	-142.4	2.83	0.56	2.78	21.6	8.3	
15,988.0	86.26	182.28	12,678.0	-3,469.9	-148.5	4.90	-3.89	-2.97	24.0	1.4	
16,083.0	86.79	182.81	12,683.7	-3,564.6	-152.7	0.79	0.56	0.56	29.0	-3.6	
16,177.0	88.90	184.39	12,687.2	-3,659.4	-158.6	2.80	2.24	1.68	31.8	-10.3	
16,272.0	89.25	182.81	12,688.8	-3,753.2	-164.6	1.70	0.37	-1.66	32.6	-17.0	
16,367.0	86.26	186.50	12,692.5	-3,847.8	-172.3	5.00	-3.15	3.88	35.5	-25.5	
16,461.0	86.35	191.78	12,698.6	-3,940.3	-187.2	5.61	0.10	5.62	41.0	-41.1	
16,558.0	90.66	186.15	12,701.1	-4,036.1	-202.3	7.31	4.44	-5.80	42.9	-56.9	
16,653.0	91.36	178.42	12,699.4	-4,130.9	-208.1	8.17	0.74	-8.14	40.3	-61.7	
16,748.0	92.86	177.19	12,695.9	-4,225.8	-202.5	2.04	1.58	-1.29	35.9	-58.9	
16,842.0	91.45	178.59	12,692.4	-4,319.6	-199.0	2.11	-1.50	1.49	31.8	-56.2	
16,938.0	90.40	174.37	12,690.8	-4,415.4	-193.1	4.53	-1.09	-4.40	29.6	-51.0	
17,033.0	91.45	176.83	12,689.3	-4,510.1	-185.8	2.82	1.11	2.59	27.2	-44.6	
17,128.0	89.25	177.19	12,688.7	-4,605.0	-180.9	2.35	-2.32	0.38	25.9	-40.4	
17,222.0	86.53	174.37	12,692.2	-4,698.6	-173.9	4.17	-2.89	-3.00	28.8	-34.1	
17,317.0	86.44	173.67	12,698.0	-4,792.9	-164.1	0.74	-0.09	-0.74	33.8	-25.0	
17,412.0	88.55	174.72	12,702.2	-4,887.4	-154.5	2.48	2.22	1.11	37.2	-16.3	
17,507.0	90.31	179.12	12,703.1	-4,982.2	-149.4	4.99	1.85	4.63	37.4	-12.1	



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3361.0usft
Site:	Wild Weasel 22 Fed Com	MD Reference:	KB = 22' @ 3361.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)	
17,538.3	89.36	178.77	12,703.2	-5,013.4	-148.8	3.25	-3.05	-1.12	37.2	-11.8	
TGT#1(WW 22 FC #704H)											
17,602.0	87.41	178.06	12,705.0	-5,077.1	-147.0	3.25	-3.05	-1.12	38.4	-10.5	
17,696.0	91.36	180.70	12,706.0	-5,171.1	-146.0	5.05	4.20	2.81	38.6	-10.3	
17,781.0	93.39	181.23	12,702.1	-5,266.0	-147.6	2.21	2.14	0.56	33.7	-12.7	
17,886.0	93.47	178.42	12,696.4	-5,360.8	-147.3	2.95	0.08	-2.96	27.2	-13.2	
17,881.0	91.71	181.05	12,692.1	-5,455.7	-146.9	3.33	-1.85	2.77	22.0	-13.6	
18,075.0	86.00	180.70	12,694.0	-5,549.6	-148.3	6.09	-6.07	-0.37	23.0	-15.8	
18,170.0	85.91	180.88	12,700.7	-5,644.4	-149.6	0.21	-0.09	0.19	28.8	-17.9	
18,265.0	87.49	178.77	12,706.1	-5,739.2	-149.3	2.77	1.66	-2.22	33.4	-18.4	
18,360.0	91.63	180.17	12,706.9	-5,834.2	-148.5	4.60	4.36	1.47	33.3	-18.3	
18,455.0	89.43	181.23	12,708.0	-5,929.2	-149.6	2.57	-2.32	1.12	31.5	-20.3	
18,550.0	88.99	172.26	12,707.3	-6,023.9	-144.2	9.45	-0.46	-9.44	32.1	-15.5	
18,645.0	90.40	173.67	12,707.8	-6,118.2	-132.6	2.10	1.48	1.48	31.6	-4.8	
18,739.0	89.08	173.85	12,708.2	-6,211.6	-122.4	1.42	-1.40	0.19	31.2	4.6	
18,834.0	90.48	174.02	12,708.6	-6,306.1	-112.3	1.48	1.47	0.18	30.7	13.8	
18,929.0	88.20	174.72	12,709.7	-6,400.6	-103.0	2.51	-2.40	0.74	30.9	22.4	
19,024.0	90.57	177.54	12,710.7	-6,495.4	-96.6	3.88	2.49	2.97	31.0	28.0	
19,119.0	90.84	177.54	12,709.5	-6,590.3	-92.5	0.28	0.28	0.00	29.0	31.3	
19,214.0	89.16	174.72	12,709.5	-6,685.1	-86.1	3.46	-1.77	-2.97	28.1	36.9	
19,309.0	88.81	174.20	12,711.2	-6,779.6	-77.0	0.66	-0.37	-0.55	28.9	45.3	
19,329.0	87.14	173.67	12,711.9	-6,789.5	-74.8	8.76	-8.35	-2.65	29.4	47.3	
19,424.0	91.28	178.24	12,713.2	-6,894.2	-68.2	6.49	4.36	4.81	29.9	53.1	
19,519.0	93.03	182.81	12,709.7	-6,989.1	-69.0	5.15	1.84	4.81	25.3	51.5	
19,614.0	92.33	185.80	12,705.2	-7,083.7	-76.1	3.23	-0.74	3.15	20.1	43.6	
19,709.0	89.60	182.11	12,703.6	-7,178.4	-82.7	4.83	-2.87	-3.88	17.7	36.2	



Final PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Wild Weasel 22 Fed Com
 Well: #704H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #704H
 TVD Reference: KB = 22' @ 3361.0usft
 MD Reference: KB = 22' @ 3361.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,713.1	89.63	182.11	12,703.7	-7,182.5	-82.8	0.65	0.65	0.00	17.7	36.0
TGT#2(WW 22 FC #704H)										
19,804.0	90.22	182.11	12,703.8	-7,273.4	-86.2	0.65	0.65	0.00	16.9	31.9
19,899.0	87.41	180.00	12,705.7	-7,368.3	-87.9	3.70	-2.96	-2.22	17.9	29.4
19,994.0	88.11	180.00	12,709.5	-7,463.2	-87.9	0.74	0.74	0.00	20.6	28.6
20,089.0	88.37	180.88	12,712.4	-7,558.2	-88.7	0.97	0.27	0.93	22.6	27.1
20,184.0	89.96	182.99	12,713.8	-7,653.1	-91.9	2.78	1.67	2.22	23.0	23.0
20,279.0	90.84	180.88	12,713.1	-7,748.1	-95.1	2.41	0.93	-2.22	21.4	19.1
20,374.0	91.19	182.28	12,711.4	-7,843.0	-97.7	1.52	0.37	1.47	18.7	15.6
20,468.0	89.96	182.28	12,710.5	-7,936.9	-101.4	1.31	-1.31	0.00	18.9	11.1
20,563.0	89.78	180.17	12,710.7	-8,031.9	-103.5	2.23	-0.19	-2.22	16.1	8.3
20,658.0	89.25	178.42	12,711.5	-8,126.9	-102.3	1.92	-0.56	-1.84	15.9	8.7
20,701.9	89.49	177.77	12,712.0	-8,170.8	-100.8	1.59	0.56	-1.48	16.0	9.8
TGT#3(WW 22 FC #704H)										
20,753.0	89.78	177.01	12,712.3	-8,221.8	-98.5	1.59	0.56	-1.48	15.8	11.7
20,848.0	89.52	175.25	12,712.9	-8,316.6	-92.1	1.87	-0.27	-1.85	15.4	17.3
20,943.0	90.04	176.83	12,713.2	-8,411.4	-85.5	1.75	0.55	1.66	14.8	23.0
21,037.0	90.66	176.83	12,712.7	-8,505.2	-80.3	0.66	0.66	0.00	13.3	27.5
21,132.0	89.69	178.06	12,712.4	-8,600.1	-78.1	1.85	-1.02	1.29	12.1	30.9
21,227.0	90.40	181.23	12,712.3	-8,695.1	-75.5	3.42	0.75	3.34	11.0	30.7
21,322.0	91.28	180.70	12,710.9	-8,790.1	-77.1	1.08	0.93	-0.56	8.7	28.3
21,417.0	92.24	178.94	12,708.0	-8,885.0	-76.8	2.11	1.01	-1.85	4.8	27.8
21,511.0	92.68	180.52	12,704.0	-8,978.9	-76.4	1.74	0.47	1.68	-0.2	27.5
21,606.0	88.26	174.55	12,704.8	-9,073.7	-72.3	9.23	-6.76	-6.28	-0.4	30.7
21,701.0	88.37	178.24	12,709.3	-9,168.4	-68.3	4.47	2.22	3.88	3.2	35.9
21,796.0	88.20	177.71	12,712.1	-9,263.3	-63.0	0.59	-0.18	-0.56	5.1	38.5
21,890.0	88.53	174.20	12,716.4	-9,357.0	-58.4	4.13	-1.78	-3.73	8.3	44.4



Final PVA Report

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3361.0usft
Site:	Wild Weasel 22 Fed Com	MD Reference:	KB = 22' @ 3361.0usft
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Inc (")	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg ("/100usft)	Buile ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
21,985.0	90.31	177.54	12,719.1	-9,451.7	-49.5	5.31	3.88	3.52	10.2	50.4	
22,080.0	89.87	184.74	12,718.9	-9,546.6	-51.4	7.59	-0.46	7.58	9.1	47.7	
22,175.0	88.20	187.91	12,720.5	-9,641.0	-61.9	3.77	-1.76	3.34	10.0	38.4	
22,270.0	89.25	190.02	12,722.6	-9,734.8	-76.7	2.48	1.11	2.22	11.1	20.7	
22,365.0	89.98	190.19	12,723.3	-9,828.3	-83.3	0.77	0.75	0.18	10.6	3.3	
22,460.0	90.13	193.71	12,723.2	-9,921.2	-113.0	3.71	0.18	3.71	9.8	-16.9	
22,555.0	88.02	191.95	12,724.7	-10,013.8	-134.1	2.89	-2.22	-1.85	10.1	-38.9	
22,639.0	88.81	192.30	12,727.1	-10,095.9	-151.7	1.03	0.94	0.42	11.7	-57.2	
Final MWD Survey (MD=22639.0')											
22,685.1	88.81	192.30	12,728.0	-10,141.0	-161.6	0.00	0.00	0.00	12.2	-67.4	
PBHL (WW 22 FC #704H)											
22,688.0	88.81	192.30	12,728.1	-10,143.8	-162.2	0.00	0.00	0.00	12.2	-68.1	
Final Projection to Bit (MD=22688.0')											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,645.5	8,634.7	191.7	-170.8	HL Crossing, MD:8645.5', TVD:8634.7', N/S:191.7', E/W:-170.8', INC:1.67
22,639.0	12,727.1	-10,095.9	-151.7	Final MWD Survey (MD=22639.0')
22,688.0	12,728.1	-10,143.8	-162.2	Final Projection to Bit (MD=22688.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Wild Weasel 22 Fed Com #704H

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: #704H

KB = 22' @ 3361.0ust
Northing 49397.00 Easting 813949.00 Latitude 32° 7' 20.817 N Longitude 103° 27' 9.901 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	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	1312.7	4.25	323.21	1312.5	6.3	-4.7	2.00	323.21	-6.3	
4	5173.3	4.25	323.21	5162.5	235.7	-178.3	0.00	0.00	-234.0	
5	5386.0	0.00	0.00	5375.0	242.0	-181.0	2.00	180.00	-240.3	
6	12182.4	0.00	0.00	12151.4	242.0	-181.0	0.00	0.00	-240.3	
7	12808.7	89.55	179.52	12628.9	-231.7	-177.0	12.00	179.52	233.4	
8	17891.2	89.55	179.52	12666.0	-5013.9	-137.0	0.00	0.00	5015.0	TGT#1(WW 22 FC #704H)
9	17895.4	89.47	179.52	12666.0	-5018.1	-137.0	2.00	-180.00	5019.1	
10	19858.7	89.47	179.52	12686.0	-7181.2	-118.9	0.00	0.00	7182.0	TGT#2(WW 22 FC #704H)
11	19861.1	89.42	179.52	12686.0	-7183.7	-118.9	2.00	180.00	7184.4	
12	22833.7	89.42	179.52	12718.0	-10156.0	-94.0	0.00	0.00	10156.4	PBHL (WW 22 FC #704H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top (WW 22 FC #704H)	7713.0	242.0	-181.0	409638.00	813769.00
FTP (WW 22 FC #704H)	12826.0	182.0	-181.0	409589.00	813768.00
TGT#1(WW 22 FC #704H)	12826.0	-5013.9	-137.0	404383.10	813811.89
TGT#2(WW 22 FC #704H)	12838.0	-7181.2	-118.9	402216.80	813820.11
TGT#3(WW 22 FC #704H)	12838.0	-8171.3	-110.8	401228.70	813838.33
PBHL (WW 22 FC #704H)	12718.0	-10156.0	-94.0	399241.00	813855.00

