



HOBBS OCD

MAR 03 2020

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Quijote 2 State Com

#706H

OH

Design: OH

Midland PVA

01 August, 2019



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Quijote 2 State Com
 Well: #706H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25 @ 3361.0usft
 MD Reference: KB = 25 @ 3361.0usft
 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	Quijote 2 State Com		
Site Position:		Northing:	393,066.89 usft
From: Map		Easting:	756,153.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 43.401 N
		Longitude:	103° 38' 23.163 W
		Grid Convergence:	0.37 "

Well	#706H		
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
	IGRF2015	5/29/2019	6.77
			Dip Angle
			Field Strength
			(nT)
			69.89
			47,845.12226724

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N-S	Tie On Depth:
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			183.84



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Survey Program		Date 8/1/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
151.0	11,473.0	Intrepid MWD (OH)	MWD	OWSG MWD - Standard	
11,614.0	17,057.0	HTMWD (OH)	MWD	OWSG MWD - Standard	

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
151.0	0.35	332.42	151.0	0.4	-0.2	0.23	0.23	0.00	-0.5	0.0
238.0	0.28	28.11	238.0	0.8	-0.2	0.34	-0.10	64.01	-0.6	0.6
323.0	0.04	335.90	323.0	1.0	-0.2	0.28	-0.26	-61.42	-1.0	-0.3
412.0	0.13	318.41	412.0	1.1	-0.2	0.10	0.10	-19.65	-1.0	-0.6
500.0	0.09	303.73	500.0	1.2	-0.4	0.06	-0.05	-16.68	-1.0	-0.8
588.0	0.40	138.15	588.0	1.0	-0.2	0.55	0.35	-188.16	0.9	0.5
694.0	0.53	126.63	694.0	0.5	0.4	0.15	0.12	-10.87	-0.1	0.6
787.0	0.62	147.73	787.0	-0.2	1.0	0.25	0.10	22.69	-0.7	0.8
879.0	0.48	168.82	879.0	-1.0	1.4	0.27	-0.15	22.92	-1.3	1.2
922.0	0.62	174.45	922.0	-1.4	1.4	0.35	0.33	13.09	-1.5	1.3
1,034.0	0.66	170.84	1,034.0	-2.7	1.6	0.05	0.04	-3.22	-3.7	2.1
1,127.0	1.93	309.80	1,127.0	-2.2	0.5	2.65	1.37	149.42	7.1	0.5
1,219.0	2.90	301.89	1,219.0	0.0	-2.7	1.11	1.05	-8.60	9.9	1.0
1,311.0	6.55	308.82	1,310.8	4.6	-8.8	4.01	3.97	7.84	9.4	-1.0
1,402.0	6.55	310.68	1,401.0	11.2	-16.7	0.22	0.00	1.93	5.9	-2.4
1,494.0	6.15	306.72	1,492.4	17.6	-24.7	0.64	-0.43	-4.30	2.9	-3.2
1,589.0	6.24	305.67	1,586.8	23.6	-32.9	0.15	0.09	-1.11	0.0	-3.9
1,684.0	6.15	306.46	1,681.3	29.7	-41.2	0.13	-0.09	0.83	-3.0	-4.7
1,780.0	6.24	306.99	1,776.7	35.9	-49.5	0.11	0.09	0.55	-6.1	-5.5
1,875.0	6.29	306.81	1,871.2	42.1	-57.8	0.06	0.05	-0.19	-9.1	-6.4



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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)
1,970.0	6.29	306.72	1,965.6	48.3	-66.1	0.01	0.00	-0.09	-12.3	-7.3
2,065.0	6.33	303.65	2,060.0	54.3	-74.7	0.36	0.04	-3.23	-15.0	-8.6
2,160.0	6.42	301.98	2,154.4	60.0	-83.5	0.22	0.09	-1.76	-17.9	-9.5
2,255.0	6.51	299.08	2,248.8	65.5	-92.6	0.36	0.09	-3.05	-20.8	-10.5
2,350.0	6.51	299.34	2,343.2	70.7	-102.2	0.03	0.00	0.27	-24.3	-10.3
2,445.0	6.33	299.43	2,437.6	75.9	-111.4	0.19	-0.19	0.09	-27.6	-10.1
2,540.0	6.37	298.46	2,532.0	81.0	-120.6	0.12	0.04	-1.02	-30.6	-10.5
2,635.0	6.42	297.41	2,626.4	86.0	-130.0	0.13	0.05	-1.11	-33.7	-10.8
2,731.0	6.59	293.45	2,721.8	90.6	-139.8	0.50	0.18	-4.12	-36.4	-12.6
2,826.0	6.64	292.66	2,816.2	94.9	-149.8	0.11	0.05	-0.83	-39.9	-12.2
2,921.0	6.42	291.17	2,910.6	99.0	-159.9	0.29	-0.23	-1.57	-43.1	-12.3
3,016.0	6.42	289.06	3,005.0	102.6	-169.8	0.25	0.00	-2.22	-46.1	-12.6
3,111.0	6.33	288.18	3,099.4	106.0	-179.8	0.14	-0.09	-0.93	-49.3	-11.9
3,207.0	5.27	291.34	3,194.9	109.2	-189.0	1.15	-1.10	3.29	-52.2	-7.7
3,302.0	4.48	293.63	3,289.5	112.3	-196.4	0.66	-0.83	2.41	-53.3	-4.7
3,397.0	3.87	295.82	3,384.3	115.2	-202.7	0.66	-0.64	2.31	-53.0	-1.9
3,492.0	3.43	307.95	3,479.1	118.3	-207.8	0.93	-0.46	12.77	-51.0	8.9
3,588.0	3.12	318.50	3,574.9	122.1	-211.8	0.70	-0.32	10.99	-46.9	16.2
3,683.0	2.86	333.62	3,669.8	126.1	-214.6	0.87	-0.27	15.92	-39.8	24.5
3,778.0	4.26	309.82	3,764.6	130.5	-218.4	2.12	1.47	-25.26	-44.8	4.1
3,874.0	4.79	304.96	3,860.3	135.1	-224.4	0.67	0.55	-4.85	-45.1	-0.5
3,969.0	4.62	306.81	3,955.0	139.6	-230.7	0.24	-0.18	1.95	-45.6	0.2
4,064.0	3.03	308.66	4,049.8	143.5	-235.7	1.68	-1.67	1.95	-44.7	0.7
4,159.0	2.11	316.13	4,144.7	146.3	-238.9	1.03	-0.97	7.86	-41.4	4.8
4,255.0	3.60	303.56	4,240.6	149.3	-242.7	1.67	1.55	-13.09	-38.8	-5.1
4,350.0	3.91	298.46	4,335.4	152.5	-248.0	0.48	0.33	-5.37	-37.0	-8.6
4,445.0	2.55	291.34	4,430.2	154.8	-252.8	1.49	-1.43	-7.49	-33.8	-12.4



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4,540.0	5.10	295.56	4,525.0	157.4	-258.6	2.70	2.68	4.44	-33.6	-9.1	
4,635.0	4.88	294.94	4,619.7	160.9	-266.1	0.24	-0.23	-0.65	-34.4	-8.9	
4,730.0	4.40	295.30	4,714.3	164.2	-273.0	0.51	-0.51	0.38	-34.9	-8.0	
4,824.0	4.26	292.22	4,808.1	167.0	-279.5	0.29	-0.15	-3.26	-34.3	-9.1	
4,919.0	4.40	292.31	4,902.8	169.7	-286.1	0.15	0.15	0.09	-34.2	-8.0	
5,014.0	4.40	291.78	4,997.5	172.5	-292.9	0.04	0.00	-0.56	-34.2	-7.3	
5,109.0	4.35	291.78	5,092.2	175.2	-299.6	0.05	-0.05	0.00	-34.2	-6.2	
5,204.0	4.22	292.04	5,187.0	177.8	-306.2	0.14	-0.14	0.27	-34.0	-5.0	
5,299.0	3.96	293.28	5,281.7	180.4	-312.5	0.29	-0.27	1.31	-33.6	-3.3	
5,394.0	4.66	292.04	5,376.5	183.2	-319.1	0.74	0.74	-1.31	-33.4	-3.1	
5,489.0	4.75	290.02	5,471.1	186.0	-326.3	0.20	0.09	-2.13	-33.8	-3.1	
5,584.0	4.53	288.88	5,565.8	188.5	-333.6	0.25	-0.23	-1.20	-34.3	-2.5	
5,679.0	5.49	308.74	5,660.5	192.6	-340.7	2.07	1.01	20.91	-33.9	9.5	
5,775.0	5.27	307.16	5,756.1	198.1	-347.8	0.28	-0.23	-1.65	-35.8	7.5	
5,870.0	5.19	306.72	5,850.7	203.3	-354.7	0.09	-0.08	-0.46	-37.2	6.3	
5,965.0	5.19	305.67	5,945.3	208.4	-361.6	0.10	0.00	-1.11	-38.6	4.9	
6,060.0	5.19	303.73	6,039.9	213.3	-368.7	0.18	0.00	-2.04	-40.0	3.0	
6,155.0	5.10	304.26	6,134.5	218.0	-375.8	0.11	-0.08	0.56	-41.2	2.8	
6,250.0	5.14	304.70	6,229.1	222.8	-382.7	0.06	0.04	0.46	-42.4	2.6	
6,346.0	5.05	303.03	6,324.7	227.6	-389.8	0.18	-0.09	-1.74	-43.5	0.9	
6,441.0	4.97	304.79	6,419.4	232.2	-396.7	0.18	-0.08	1.85	-44.5	1.7	
6,536.0	4.62	306.19	6,514.0	236.8	-403.2	0.39	-0.37	1.47	-45.1	2.1	
6,631.0	4.44	304.79	6,608.7	241.2	-409.3	0.22	-0.19	-1.47	-45.3	0.3	
6,726.0	4.18	304.26	6,703.5	245.2	-415.2	0.28	-0.27	-0.58	-45.1	-0.6	
6,821.0	5.27	310.24	6,798.2	250.0	-421.4	1.26	1.15	6.29	-45.5	3.1	
6,916.0	3.38	297.05	6,892.9	254.1	-427.2	2.24	-1.99	-13.88	-44.8	-7.9	
7,011.0	1.76	270.07	6,987.8	255.4	-431.1	2.08	-1.71	-28.40	-33.9	-25.0	



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7,106.0	1.45	244.67	7,082.8	254.9	-433.7	0.81	-0.33	-26.74	-18.3	-31.7	
7,201.0	1.54	247.66	7,177.7	253.9	-435.9	0.13	0.09	3.15	-17.9	-24.8	
7,296.0	0.40	230.17	7,272.7	253.2	-437.4	1.23	-1.20	-18.41	-8.6	-22.5	
7,391.0	0.26	79.44	7,367.7	253.0	-437.4	0.67	-0.15	-158.66	13.6	10.9	
7,486.0	0.22	96.75	7,462.7	253.0	-437.0	0.09	-0.04	18.22	12.4	5.0	
7,581.0	0.18	130.06	7,557.7	252.9	-436.7	0.13	-0.04	35.06	12.0	-2.4	
7,676.0	0.26	221.03	7,652.7	252.6	-436.8	0.34	0.08	95.76	-2.8	-11.8	
7,770.0	0.44	229.03	7,746.7	252.2	-437.2	0.20	0.18	8.51	-5.0	-11.3	
7,865.0	0.62	239.66	7,841.7	251.7	-437.9	0.22	0.18	11.19	-7.9	-10.1	
7,960.0	0.53	241.24	7,936.7	251.3	-438.7	0.10	-0.09	1.66	-9.1	-9.9	
8,055.0	0.62	240.36	8,031.7	250.8	-439.6	0.10	0.09	-0.93	-9.9	-10.0	
8,150.0	0.62	259.00	8,126.7	250.4	-440.5	0.21	0.00	19.62	-13.6	-6.1	
8,245.0	0.48	232.02	8,221.7	250.1	-441.3	0.31	-0.15	-28.40	-10.2	-11.9	
8,340.0	0.62	232.54	8,316.7	249.5	-442.0	0.15	0.15	0.55	-11.2	-11.8	
8,435.0	0.79	232.89	8,411.7	248.8	-443.0	0.18	0.18	0.37	-12.4	-11.7	
8,529.0	0.97	234.48	8,505.7	248.0	-444.1	0.19	0.19	1.69	-14.2	-11.3	
8,624.0	1.14	239.13	8,600.6	247.0	-445.6	0.20	0.18	4.89	-16.8	-10.1	
8,719.0	1.14	228.68	8,695.6	245.9	-447.1	0.22	0.00	-11.00	-16.6	-13.1	
8,814.0	1.14	224.98	8,790.6	244.6	-448.5	0.08	0.00	-3.89	-17.6	-14.2	
8,909.0	1.36	224.11	8,885.6	243.1	-450.0	0.23	0.23	-0.92	-19.4	-14.5	
9,004.0	1.10	242.47	8,980.6	241.9	-451.5	0.49	-0.27	19.33	-25.0	-7.3	
9,099.0	0.35	34.61	9,075.6	241.7	-452.2	1.49	-0.79	160.15	19.2	18.6	
9,194.0	0.48	325.62	9,170.5	242.3	-452.3	0.51	0.14	-72.62	-10.9	24.3	
9,289.0	0.68	309.97	9,265.5	243.1	-453.0	0.46	0.42	-16.47	-18.2	20.4	
9,383.0	0.57	337.92	9,359.5	244.0	-453.8	0.49	-0.33	29.73	-7.6	26.9	
9,478.0	0.66	53.51	9,454.5	244.8	-453.5	0.80	0.09	79.57	23.4	14.6	
9,573.0	0.75	61.51	9,549.5	245.4	-452.5	0.14	0.09	8.42	24.1	11.2	



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9,668.0	0.44	70.21	9,644.5	245.8	-451.6	0.34	-0.33	9.16	24.5	7.5
9,763.0	0.35	130.24	9,739.5	245.7	-451.1	0.42	-0.09	63.19	18.3	-17.2
9,858.0	0.75	140.70	9,834.5	245.1	-450.4	0.43	0.42	11.01	14.0	-20.1
9,953.0	0.57	140.61	9,929.5	244.2	-449.8	0.19	-0.19	-0.09	12.9	-20.1
10,048.0	0.79	157.04	10,024.5	243.3	-449.2	0.31	0.23	17.29	5.6	-22.8
10,143.0	0.35	187.81	10,119.5	242.4	-449.0	0.55	-0.46	32.39	-7.7	-22.1
10,238.0	0.66	217.69	10,214.5	241.6	-449.4	0.42	0.33	31.45	-18.5	-15.2
10,333.0	0.88	235.97	10,309.5	240.8	-450.3	0.34	0.23	19.24	-23.6	-8.5
10,428.0	0.75	209.43	10,404.5	239.8	-451.2	0.42	-0.14	-27.94	-18.6	-18.4
10,523.0	0.48	177.26	10,499.5	238.9	-451.5	0.45	-0.28	-33.86	-6.9	-25.8
10,618.0	0.53	203.54	10,594.5	238.1	-451.6	0.25	0.05	27.66	-18.4	-20.0
10,714.0	1.36	248.80	10,690.5	237.3	-452.9	1.10	0.86	47.15	-26.6	-0.7
10,809.0	2.59	220.33	10,785.4	235.2	-455.3	1.62	1.29	-29.97	-27.9	-14.6
10,904.0	0.44	143.95	10,880.4	233.3	-456.5	2.66	-2.26	-80.40	6.9	-32.7
10,999.0	0.57	147.73	10,975.4	232.6	-456.0	0.14	0.14	3.98	3.9	-33.1
11,094.0	1.80	213.91	11,070.3	231.0	-456.6	1.74	1.29	69.66	-30.4	-16.5
11,189.0	2.37	217.25	11,165.3	228.2	-458.6	0.61	0.60	3.52	-34.7	-14.6
11,283.0	2.11	168.27	11,259.2	225.0	-460.4	0.63	-0.28	-20.18	-31.7	-25.7
11,378.0	1.71	203.28	11,354.2	222.0	-461.5	0.46	-0.42	5.27	-37.0	-22.7
11,473.0	2.29	212.15	11,449.1	219.1	-463.0	0.69	0.61	9.34	-43.3	-16.5
11,568.0	2.29	222.07	11,590.0	214.6	-466.4	0.28	0.00	7.04	-51.1	-8.3
11,663.0	8.53	193.33	11,684.5	206.4	-469.3	6.96	6.57	-30.25	-46.4	-33.2
11,758.0	27.43	161.82	11,774.5	177.4	-471.7	20.15	19.89	-12.12	-53.3	-44.9
11,853.0	38.81	183.23	11,853.1	126.2	-474.0	12.13	12.11	1.50	-71.2	-48.2
11,948.0	42.99	172.33	11,925.0	64.2	-471.4	8.69	4.40	-11.47	-72.5	-54.9
12,043.0	50.20	171.80	11,990.2	-4.1	-461.6	7.60	7.59	-0.56	-69.0	-45.5
12,138.0	56.00	171.98	12,047.2	-78.3	-451.1	6.11	6.11	0.19	-54.5	-34.3



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Quijote 2 State Com
 Well: #706H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25 @ 3361.0usft
 MD Reference: KB = 25 @ 3361.0usft
 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)	
12,277.0	65.01	175.05	12,093.5	-160.5	-442.0	10.00	9.59	3.27	-32.1	-24.5	
12,372.0	76.44	177.86	12,124.8	-249.8	-436.5	12.35	12.03	2.96	-7.1	-19.6	
12,420.0	85.10	178.48	12,132.5	-297.1	-435.0	18.09	18.04	1.29	0.1	-18.9	
12,467.0	88.57	178.22	12,135.1	-344.0	-433.7	7.40	7.38	-0.55	2.3	-18.4	
12,562.0	90.64	174.96	12,135.7	-438.8	-428.0	4.06	2.18	-3.43	2.3	-14.4	
12,657.0	89.41	172.77	12,135.7	-533.3	-417.9	2.64	-1.29	-2.31	1.7	-6.0	
12,759.0	91.08	173.82	12,135.2	-634.6	-406.0	1.93	1.84	1.03	0.6	4.1	
12,854.0	91.56	178.28	12,133.1	-729.2	-397.8	2.64	0.51	2.59	-2.3	10.6	
12,949.0	90.42	178.13	12,131.4	-824.1	-393.1	2.29	-1.20	1.95	-4.6	13.5	
13,044.0	89.10	178.74	12,131.8	-919.0	-390.5	1.53	-1.39	0.64	-4.8	14.3	
13,138.0	89.10	178.48	12,133.3	-1,013.0	-388.3	0.28	0.00	-0.28	-3.8	14.9	
13,233.0	89.41	178.04	12,134.5	-1,107.9	-385.4	0.57	0.33	-0.46	-2.6	16.1	
13,328.0	89.58	180.68	12,135.4	-1,202.9	-384.3	2.78	0.18	2.78	-1.8	15.4	
13,423.0	90.15	180.50	12,135.6	-1,297.9	-385.3	0.63	0.60	-0.19	-1.6	12.7	
13,517.0	90.51	180.50	12,135.0	-1,391.9	-386.1	0.38	0.38	0.00	-2.2	10.2	
13,612.0	90.33	181.03	12,134.4	-1,486.9	-387.4	0.59	-0.19	0.56	-2.9	7.2	
13,707.0	90.64	180.68	12,133.5	-1,581.9	-388.8	0.49	0.33	-0.37	-3.8	4.1	
13,802.0	91.16	180.85	12,132.1	-1,676.9	-390.1	0.58	0.55	0.18	-5.3	1.1	
13,897.0	90.29	179.27	12,130.9	-1,771.9	-390.2	1.90	-0.92	-1.66	-6.6	-0.7	
13,992.0	90.95	180.08	12,129.8	-1,866.8	-389.6	1.08	0.69	0.83	-7.7	-1.9	
14,086.0	89.63	177.60	12,129.3	-1,960.8	-387.7	2.97	-1.40	-2.62	-8.2	-1.7	
14,181.0	89.45	176.90	12,130.1	-2,055.7	-383.1	0.78	-0.19	-0.74	-7.5	1.2	
14,276.0	89.49	176.55	12,131.0	-2,150.5	-377.7	0.37	0.04	-0.37	-6.6	4.9	
14,371.0	89.45	177.34	12,131.9	-2,245.4	-372.8	0.83	-0.04	0.83	-5.8	8.2	
14,466.0	89.80	177.16	12,132.5	-2,340.3	-368.1	0.41	0.37	-0.19	-5.2	11.0	
14,561.0	90.11	177.07	12,132.6	-2,435.2	-363.3	0.34	0.33	-0.09	-5.2	14.1	
14,655.0	90.11	177.60	12,132.4	-2,529.1	-358.9	0.56	0.00	0.56	-5.4	16.8	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Quijote 2 State Com
 Well: #706H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25 @ 3361.0usft
 MD Reference: KB = 25 @ 3361.0usft
 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)
14,750.0	90.55	178.04	12,131.8	-2,624.0	-355.3	0.85	0.46	0.46	-6.0	18.7
14,845.0	91.21	178.48	12,130.4	-2,718.9	-352.4	0.83	0.69	0.46	-7.5	19.8
14,940.0	89.93	178.92	12,129.4	-2,813.9	-350.3	1.42	-1.35	0.46	-8.5	20.3
15,035.0	89.49	179.89	12,129.9	-2,908.9	-349.3	1.12	-0.46	1.02	-8.0	19.5
15,130.0	89.89	180.50	12,130.4	-3,003.9	-349.6	0.77	0.42	0.64	-7.5	17.5
15,225.0	88.70	180.68	12,131.6	-3,098.9	-350.6	1.27	-1.25	0.19	-6.0	14.8
15,320.0	88.09	180.68	12,134.3	-3,193.8	-351.7	0.84	-0.64	0.00	-2.9	12.0
15,415.0	88.13	180.50	12,137.4	-3,288.8	-352.7	0.19	0.04	-0.19	0.6	9.2
15,510.0	89.14	180.33	12,139.7	-3,383.8	-353.4	1.08	1.06	-0.18	3.2	6.8
15,605.0	88.79	180.15	12,141.4	-3,478.7	-353.8	0.41	-0.37	-0.19	5.3	4.7
15,699.0	89.80	179.71	12,142.5	-3,572.7	-353.7	1.17	1.07	-0.47	6.9	3.1
15,794.0	90.64	179.36	12,142.2	-3,667.7	-352.9	0.96	0.88	-0.37	6.9	2.2
15,889.0	91.16	179.97	12,140.7	-3,762.7	-352.3	0.84	0.55	0.64	5.8	1.0
15,984.0	92.00	179.71	12,138.1	-3,857.7	-352.1	0.93	0.88	-0.27	3.5	-0.4
16,079.0	91.34	180.59	12,135.3	-3,952.6	-352.3	1.16	-0.69	0.93	1.2	-2.4
16,174.0	91.82	180.68	12,132.7	-4,047.6	-353.4	0.51	0.51	0.09	-1.0	-5.2
16,269.0	92.57	180.59	12,129.0	-4,142.5	-354.4	0.80	0.79	-0.09	-4.0	-7.9
16,363.0	91.25	179.71	12,125.9	-4,236.5	-354.7	1.69	-1.40	-0.94	-6.5	-9.9
16,458.0	89.58	178.57	12,125.2	-4,331.4	-353.2	2.13	-1.78	-1.20	-6.6	-10.2
16,553.0	89.80	178.39	12,125.7	-4,426.4	-350.7	0.30	0.23	-0.19	-5.5	-9.4
16,648.0	89.76	178.57	12,126.1	-4,521.4	-348.2	0.19	-0.04	0.19	-4.6	-8.6
16,743.0	89.54	178.13	12,126.7	-4,616.3	-345.5	0.52	-0.23	-0.46	-3.4	-7.6
16,838.0	89.71	178.22	12,127.3	-4,711.3	-342.4	0.20	0.18	0.09	-2.2	-6.3
16,932.0	89.49	177.95	12,127.9	-4,805.2	-339.3	0.37	-0.23	-0.29	-0.9	-4.8
17,001.0	89.54	178.13	12,128.5	-4,874.2	-336.9	0.27	0.07	0.26	0.1	-3.7
17,057.0	89.54	178.13	12,129.0	-4,930.1	-335.1	0.00	0.00	0.00	0.9	-2.9



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Quijote 2 State Com
Well: #706H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #706H
TVD Reference: KB = 25 @ 3361.0usft
MD Reference: KB = 25 @ 3361.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
11,665.0	11,640.9	211.6	-467.9	KOP, MD:11665.0', TVD:11640.9', N/S:211.6', E/W:-467.9', INC:5.53
11,755.3	11,729.8	198.0	-470.7	FTP Crossing, MD:11755.3', TVD:11729.8', N/S:198.0', E/W:-470.7', INC:17.68
17,001.0	12,128.5	-4,874.2	-336.9	Last MWD Survey (MD=17001.0')
17,057.0	12,129.0	-4,930.1	-335.1	Projection to Bit (MD=17057.0')

Checked By: _____ Approved By: _____ Date: _____

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

Kay Maddox 03/02/2020
Signed Date



Lea County, NM (NAD 83 NME)

Quijote 2 State Com #706H

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: #706H

KB = 25 @ 3381.0m
Northing: 303120.00 Easting: 765034.00 Latitude: 32° 4' 43.97" N Longitude: 103° 35' 58.15" W



Azimuths to Grid North
True North: 0.37°
Magnetic North: 0.40°

Magnetic Field
Strength: 47848.1nT
Dip Angle: 89.89°
Date: 5/29/2016
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 0.40°
To convert a Magnetic Direction to a True Direction, Add 0.37° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
950.0	0.00	0.00	950.0	0.0	0.0	0.00	0.00	0.0	
1171.5	4.43	300.11	1171.2	4.3	-7.4	2.00	300.11	-3.8	
7326.4	4.43	300.11	7307.8	242.7	-418.6	0.00	0.00	-214.1	
7547.8	0.00	0.00	7529.0	247.0	-426.0	2.00	180.00	-217.9	
11673.3	0.00	0.00	11654.5	247.0	-426.0	0.00	0.00	-217.9	
12420.1	89.61	178.96	12132.0	-227.2	-417.4	12.00	178.96	254.6	Brushy Top(Quijote 2 State Com #706H)
13168.2	89.61	178.96	12137.0	-975.1	-403.9	0.00	0.00	1000.0	TGT 1(Quijote 2 State Com #706H)
13186.2	89.97	178.96	12137.1	-993.1	-403.5	2.00	0.00	1017.9	
15175.5	89.97	178.96	12138.0	-2982.1	-367.5	0.00	0.00	3000.0	TGT 2(Quijote 2 State Com #706H)
15188.4	90.23	178.96	12138.0	-2994.9	-367.3	2.00	0.00	3012.8	
16179.1	90.23	178.96	12134.0	-3985.5	-349.3	0.00	0.00	4000.0	TGT 3(Quijote 2 State Com #706H)
16185.6	90.36	178.96	12134.0	-3992.0	-349.2	2.00	0.00	4006.4	
17135.8	90.36	178.96	12128.0	-4942.0	-332.0	0.00	0.00	4953.1	PBHL(Quijote 2 State Com #706H)

CASING DETAILS
No casing data is available

WELLSITE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(Quijote 2 State Com #706H)	7628.0	247.0	-426.0	303120.00	765034.00
TGT 1(Quijote 2 State Com #706H)	12137.0	-975.1	-403.9	303144.80	764820.14
TGT 2(Quijote 2 State Com #706H)	12138.0	-2982.1	-367.5	303137.90	764888.80
TGT 3(Quijote 2 State Com #706H)	12134.0	-3985.5	-349.3	303134.00	764824.67
PBHL(Quijote 2 State Com #706H)	12128.0	-4942.0	-332.0	303178.00	764702.00
FTT(Quijote 2 State Com #706H)	12132.0	197.0	-426.0	303117.00	764808.00

