



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Durango 2 State

#706H

OH

Design: OH

Midland PVA

30 August, 2019

HOBBS OCD

JAN 23 2020

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Midland PVA

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

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25 @ 3522.0usft
 MD Reference: KB = 25 @ 3522.0usft
 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	Durango 2 State		
Site Position:		Northing:	425,051.00 usft
From:	Map	Easting:	783,515.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 58.041 N
		Longitude:	103° 32' 24.036 W
		Grid Convergence:	0.42 "

Well	#706H		
Well Position	+N/S	0.0 usft	Northing:
	+E/W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 9' 57.050 N
		Longitude:	103° 32' 24.036 W
		Ground Level:	3,497.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	7/24/2019	(°)
			6.71
			Dip Angle
			(°)
			59.99
			Field Strength
			(nT)
			47,690.39552209

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
Vertical Section:	Depth From (TVD)	+N/S	Tie On Depth:
	(usft)	(usft)	0.0
	0.0	0.0	0.0
			Direction
			(°)
			178.82

Survey Program	Date 8/30/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
199.0	17,352.0	Drilltech MWD (OH)	MWD
			Description
			OWSG MWD - Standard



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0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
199.0	1.14	317.41	199.0	1.5	-1.3	0.57	0.57	0.00	-2.0	0.0
230.0	1.23	325.06	230.0	2.0	-1.7	0.59	0.29	24.68	-2.6	0.3
316.0	1.23	327.61	316.0	3.5	-2.8	0.06	0.00	2.97	-4.4	0.5
401.0	1.14	319.61	400.9	4.9	-3.8	0.22	-0.11	-8.41	-8.2	-0.3
488.0	1.06	328.93	487.9	6.3	-4.8	0.22	-0.09	10.71	-7.8	0.9
578.0	0.97	326.99	577.9	7.6	-5.6	0.11	-0.10	-2.16	-9.4	0.6
674.0	0.97	328.75	673.9	9.0	-6.5	0.03	0.00	1.83	-11.0	0.9
769.0	0.70	319.70	768.9	10.1	-7.3	0.32	-0.28	-9.53	-12.4	-1.0
864.0	0.70	316.53	863.9	11.0	-8.1	0.04	0.00	-3.34	-13.5	-1.7
958.0	0.79	315.04	957.9	11.9	-8.9	0.10	0.10	-1.59	-14.7	-2.1
1,052.0	0.88	320.66	1,051.9	12.9	-9.8	0.13	0.10	5.98	-16.2	-0.6
1,147.0	0.79	309.85	1,146.9	13.9	-10.8	0.19	-0.09	-11.38	-17.2	-3.7
1,241.0	0.79	279.53	1,240.8	14.4	-11.9	0.44	0.00	-32.26	-14.1	-12.2
1,420.0	0.79	235.06	1,419.8	13.9	-14.1	0.33	0.00	-24.84	-3.7	-19.5
1,515.0	1.06	250.26	1,514.8	13.2	-15.5	0.38	0.28	16.00	-10.1	-17.7
1,610.0	1.41	22.88	1,609.8	14.0	-15.9	2.39	0.37	139.71	-6.7	20.1
1,705.0	1.58	29.13	1,704.8	16.2	-14.8	0.25	0.18	6.47	-5.1	20.3
1,800.0	2.90	7.42	1,799.7	19.7	-13.8	1.63	1.39	-22.85	-10.8	16.9
1,895.0	3.78	2.85	1,894.5	25.2	-13.4	0.97	0.93	-4.81	-9.9	17.2
1,989.0	3.43	4.79	1,988.4	31.1	-13.0	0.39	-0.37	2.06	-7.1	18.7
2,084.0	4.48	8.04	2,083.1	37.6	-12.2	1.13	1.11	3.42	-4.3	19.9
2,177.0	6.33	16.74	2,175.7	46.1	-10.2	2.17	1.99	9.35	-1.9	20.3
2,271.0	6.33	16.39	2,269.1	56.1	-7.3	0.04	0.00	-0.37	-4.2	19.8
2,366.0	6.24	14.69	2,363.6	66.1	-4.5	0.20	-0.09	-1.58	-6.9	19.2
2,460.0	6.51	13.93	2,457.0	76.2	-1.9	0.31	0.29	-1.02	-9.4	18.8
2,554.0	6.24	14.98	2,550.4	86.3	0.7	0.31	-0.29	1.12	-11.4	18.8



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Survey

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2,647.0	6.51	17.53	2,642.8	98.2	3.8	0.42	0.29	2.74	-12.8	18.8
2,742.0	6.60	18.23	2,737.2	106.5	6.9	0.13	0.09	0.74	-15.2	18.2
2,837.0	7.03	19.90	2,831.5	117.2	10.6	0.50	0.45	1.76	-17.7	17.8
2,931.0	7.03	22.72	2,924.8	127.9	14.8	0.37	0.00	3.00	-20.2	17.5
3,025.0	6.77	14.28	3,018.2	138.6	18.4	1.11	-0.28	-8.98	-25.6	13.3
3,120.0	6.80	6.90	3,112.5	149.4	20.4	0.92	-0.18	-7.77	-29.9	10.0
3,215.0	7.03	14.54	3,208.8	160.5	22.5	1.08	0.45	8.04	-31.3	14.3
3,309.0	7.30	16.39	3,300.1	171.8	25.7	0.38	0.29	1.97	-34.4	15.0
3,404.0	7.91	21.92	3,394.3	183.6	28.8	1.00	0.64	5.82	-37.2	17.5
3,497.0	7.91	26.49	3,488.4	195.3	35.1	0.68	0.00	4.91	-40.6	18.9
3,590.0	6.42	29.13	3,578.7	205.6	40.4	1.64	-1.60	2.84	-43.5	18.8
3,685.0	4.84	27.11	3,673.2	213.8	44.9	1.68	-1.68	-2.13	-45.5	15.0
3,778.0	4.84	14.98	3,765.9	221.1	47.7	1.10	0.00	-13.04	-47.2	4.0
3,871.0	5.10	12.98	3,858.5	228.9	49.6	0.34	0.28	-2.17	-47.3	2.2
3,965.0	4.57	3.12	3,952.2	236.7	50.7	1.05	-0.58	-10.47	-48.8	-5.3
4,059.0	4.48	3.58	4,045.9	244.1	51.2	0.10	-0.10	0.47	-48.1	-3.6
4,153.0	4.57	5.84	4,139.6	251.5	51.8	0.21	0.10	2.43	-45.5	-0.6
4,246.0	4.68	7.25	4,232.3	258.9	52.6	0.16	0.10	1.52	-44.9	1.4
4,338.0	4.92	10.32	4,324.0	266.5	53.8	0.40	0.28	3.34	-44.4	4.3
4,430.0	5.19	14.45	4,415.6	274.4	55.6	0.49	0.29	4.49	-44.1	7.5
4,523.0	5.45	30.54	4,508.2	282.3	58.9	1.62	0.28	17.30	-41.1	18.1
4,618.0	5.36	47.32	4,602.8	289.2	64.4	1.66	-0.09	17.66	-36.1	25.7
4,713.0	3.52	44.51	4,697.5	294.3	69.7	1.95	-1.94	-2.96	-37.6	19.3
4,807.0	3.25	66.40	4,791.4	297.4	74.2	1.40	-0.29	23.29	-28.2	26.4
4,903.0	2.64	99.09	4,887.2	298.1	78.9	1.83	-0.64	34.05	-13.4	30.5
4,997.0	2.37	122.47	4,981.1	298.8	82.6	1.12	-0.29	24.87	-6.9	26.5
5,091.0	0.88	116.49	5,075.1	295.4	84.9	1.59	-1.59	-8.38	-14.1	17.5



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5,186.0	0.97	113.07	5,170.1	294.7	88.3	0.11	0.09	-3.60	-18.2	8.4
5,281.0	0.79	124.23	5,265.1	294.1	87.8	0.26	-0.19	11.75	-20.2	5.3
5,375.0	0.97	99.88	5,359.1	293.8	88.9	0.44	0.19	-25.90	-21.8	-7.8
5,468.0	0.97	90.57	5,452.1	293.4	90.5	0.17	0.00	-10.01	-21.6	-12.4
5,561.0	0.88	70.88	5,545.0	293.8	91.9	0.35	-0.10	-21.17	-17.6	-19.2
5,654.0	0.79	61.48	5,638.0	294.2	93.2	0.18	-0.10	-10.11	-15.6	-21.9
5,747.0	0.97	72.02	5,731.0	294.7	94.5	0.26	0.19	11.33	-20.8	-18.6
5,841.0	1.14	50.68	5,825.0	295.6	98.0	0.45	0.18	-22.72	-14.2	-25.2
5,936.0	0.79	64.29	5,920.0	296.5	97.3	0.44	-0.37	14.35	-21.3	-20.9
6,031.0	1.06	42.23	6,015.0	297.4	98.5	0.47	0.28	-23.22	-13.4	-27.6
6,127.0	0.70	24.74	6,111.0	298.6	99.3	0.46	-0.37	-18.22	-5.9	-30.6
6,222.0	1.06	25.09	6,206.0	299.9	99.9	0.38	0.38	0.37	-7.6	-30.6
6,317.0	1.06	9.80	6,300.9	301.8	100.5	0.30	0.00	-16.09	-1.0	-31.7
6,408.0	0.70	12.98	6,391.9	302.9	100.7	0.40	-0.40	3.47	-4.1	-31.6
6,502.0	0.79	20.34	6,485.9	304.1	101.1	0.14	0.10	7.85	-9.4	-30.7
6,596.0	0.88	19.38	6,579.9	305.4	101.5	0.10	0.10	-1.02	-10.2	-30.9
6,691.0	0.70	347.82	6,674.9	306.6	101.7	0.49	-0.18	-33.22	6.3	-32.1
6,786.0	0.79	0.65	6,769.9	307.9	101.5	0.20	0.09	13.51	-2.2	-32.5
6,880.0	0.88	351.34	6,863.9	309.2	101.4	0.17	0.10	-9.90	1.7	-32.6
6,973.0	0.88	348.79	6,958.9	310.6	101.2	0.04	0.00	-2.74	1.7	-32.5
7,067.0	0.97	353.54	7,050.9	312.1	101.0	0.13	0.10	5.05	-2.5	-32.5
7,159.0	0.88	334.38	7,142.9	313.5	100.6	0.35	-0.10	-20.83	6.8	-31.7
7,254.0	0.70	320.40	7,237.8	314.7	99.9	0.28	-0.19	-14.72	13.0	-29.3
7,347.0	0.53	305.20	7,330.8	315.3	99.2	0.25	-0.18	-16.34	19.3	-25.0
7,442.0	0.53	308.60	7,425.8	315.9	98.5	0.01	0.00	1.47	17.8	-25.5
7,534.0	0.53	269.07	7,517.8	316.1	97.7	0.37	0.00	-40.79	28.9	-9.6
7,630.0	0.18	275.84	7,613.8	316.1	97.1	0.37	-0.36	7.05	28.9	-12.9



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7,725.0	0.26	240.68	7,708.8	316.0	96.8	0.16	0.08	-37.01	29.1	4.9
7,820.0	0.62	187.33	7,803.8	315.4	96.5	0.54	0.38	-56.16	12.8	26.1
7,915.0	0.79	195.77	7,898.8	314.3	96.3	0.21	0.18	8.88	15.4	24.0
8,010.0	0.88	208.87	7,993.8	313.0	95.7	0.22	0.09	13.79	19.0	20.0
8,105.0	0.88	200.86	8,088.8	311.7	95.1	0.13	0.00	-8.33	14.6	22.4
8,200.0	1.14	207.02	8,183.8	310.1	94.4	0.30	0.27	6.38	15.2	20.8
8,295.0	1.06	197.35	8,278.8	308.5	93.7	0.21	-0.08	-10.18	9.7	22.9
8,390.0	1.32	203.77	8,373.7	306.6	93.0	0.31	0.27	6.76	10.3	21.7
8,484.0	1.06	201.49	8,467.7	304.8	92.3	0.28	-0.28	-2.43	7.4	22.1
8,579.0	1.06	203.68	8,562.7	303.2	91.6	0.04	0.00	2.31	6.5	21.8
8,672.0	1.14	207.37	8,655.7	301.6	90.8	0.11	0.09	3.97	6.1	21.4
8,765.0	0.97	197.18	8,748.7	300.0	90.2	0.27	-0.18	-10.96	0.5	22.0
8,860.0	0.79	198.06	8,843.7	298.6	89.7	0.19	-0.19	0.93	-0.6	22.0
8,955.0	1.32	193.22	8,938.7	296.9	89.3	0.57	0.56	-5.09	-4.2	21.8
9,051.0	1.06	181.18	9,034.6	295.0	89.0	0.37	-0.27	-12.54	-10.6	20.2
9,145.0	1.14	203.77	9,128.6	293.3	88.6	0.47	0.09	24.03	-3.8	23.1
9,241.0	0.88	203.15	9,224.6	291.7	87.9	0.27	-0.27	-0.65	-5.7	23.0
9,336.0	1.23	185.23	9,319.6	290.0	87.6	0.50	0.37	-18.86	-14.2	19.9
9,431.0	1.32	185.45	9,414.6	287.9	87.7	0.47	0.09	-20.82	-22.2	13.6
9,526.0	1.41	157.36	9,509.5	285.8	88.5	0.22	0.09	-8.52	-26.1	10.2
9,621.0	1.32	177.14	9,604.5	283.6	89.0	0.50	-0.09	20.82	-23.3	18.8
9,716.0	1.58	220.73	9,699.5	281.5	88.2	1.16	0.27	45.88	-6.0	30.5
9,811.0	1.58	213.97	9,794.4	279.5	86.6	0.20	0.00	-7.12	-12.2	29.4
9,906.0	2.55	160.09	9,889.4	276.4	86.6	2.17	1.02	-56.72	-33.8	6.5
10,001.0	1.49	165.10	9,984.3	273.2	87.6	1.13	-1.12	5.27	-36.5	9.6
10,096.0	1.32	237.52	10,079.3	271.4	87.0	1.75	-0.18	76.23	-3.4	38.8
10,191.0	1.32	203.77	10,174.3	269.8	85.6	0.81	0.00	-35.53	-26.4	29.8



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10,286.0	1.23	230.75	10,269.3	268.2	84.4	0.63	-0.09	28.40	-12.0	39.0	
10,381.0	1.23	294.12	10,364.2	268.0	82.7	1.36	0.00	66.71	28.0	29.1	
10,476.0	1.67	282.45	10,459.2	268.9	80.5	0.47	0.46	-1.76	24.8	29.9	
10,571.0	1.49	297.81	10,554.2	270.0	78.1	0.24	-0.19	5.64	24.8	27.6	
10,666.0	1.41	283.40	10,649.1	270.9	75.9	0.39	-0.08	-15.17	14.8	32.6	
10,761.0	1.32	294.39	10,744.1	271.6	73.7	0.29	-0.09	11.57	18.5	29.4	
10,856.0	1.67	293.88	10,839.1	272.6	71.5	0.37	0.37	-0.56	15.6	29.5	
10,952.0	1.23	305.02	10,935.1	273.8	69.4	0.54	-0.46	11.62	18.8	26.2	
11,047.0	1.76	308.16	11,030.0	275.2	67.4	0.56	0.56	1.20	16.8	25.8	
11,142.0	2.02	315.48	11,125.0	277.3	65.0	0.42	0.27	9.81	17.7	23.0	
11,235.0	2.02	330.95	11,217.9	279.9	63.1	0.58	0.00	16.63	20.0	17.9	
11,330.0	1.41	336.40	11,312.9	282.4	61.8	0.66	-0.64	5.74	18.7	16.1	
11,425.0	1.58	336.57	11,407.8	284.7	60.8	0.18	0.18	0.18	16.3	16.0	
11,521.0	2.11	288.15	11,503.8	286.4	58.6	1.65	0.55	-50.44	-3.8	21.8	
11,616.0	2.89	266.44	11,598.7	286.8	54.4	1.36	0.93	-22.85	-15.7	18.2	
11,711.0	3.43	257.56	11,693.6	286.1	49.2	0.70	0.46	-9.35	-23.6	15.2	
11,801.0	2.55	271.89	11,783.4	285.5	44.6	1.28	-0.88	15.92	-23.7	21.3	
11,852.0	1.85	286.65	11,834.4	285.8	42.6	1.76	-1.37	28.94	-19.5	26.9	
11,946.0	2.20	318.03	11,928.3	287.6	40.0	1.22	0.37	33.38	-5.7	33.9	
12,038.0	5.45	148.40	12,020.2	285.2	41.1	8.29	3.53	-184.38	-3.1	-34.7	
12,133.0	27.98	159.82	12,110.6	260.1	51.3	23.83	23.69	12.02	-27.6	-29.1	
12,228.0	34.91	156.49	12,191.7	214.2	69.8	7.54	7.32	-3.51	-50.7	-19.4	
12,323.0	51.62	169.67	12,260.7	152.1	87.5	19.92	17.59	13.87	-74.5	7.5	
12,371.0	55.75	176.88	12,289.2	113.7	92.0	14.84	8.60	15.02	-84.3	19.3	
12,418.0	55.40	177.49	12,315.8	75.0	93.9	1.30	-0.74	1.30	-91.2	21.4	
12,514.0	57.51	183.64	12,368.8	-4.9	93.0	5.77	2.20	6.41	-88.0	25.0	
12,608.0	60.50	184.79	12,417.2	-85.3	87.1	3.35	3.18	1.22	-68.0	17.9	



Midland PVA

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

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25 @ 3522.0usf
 MD Reference: KB = 25 @ 3522.0usf
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	NS (usft)	EW (usft)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,655.0	64.02	182.59	12,439.1	-126.8	84.4	8.56	7.49	-4.68	-53.2	14.0
12,703.0	71.58	181.01	12,457.2	-171.2	83.1	18.04	15.75	-3.29	-37.7	11.8
12,799.0	72.63	181.09	12,486.7	-262.5	81.4	1.10	1.09	0.08	-10.0	9.3
12,894.0	83.62	182.94	12,506.3	-355.3	78.1	11.72	11.57	1.95	7.5	5.2
12,989.0	89.08	183.20	12,512.3	-449.9	73.0	5.75	5.75	0.27	11.6	-0.4
13,084.0	87.76	181.82	12,514.9	-544.8	69.0	2.17	-1.39	-1.66	12.2	-5.0
13,179.0	87.58	180.92	12,518.8	-639.7	68.9	0.76	-0.19	-0.74	14.2	-7.6
13,273.0	87.32	181.71	12,523.0	-733.6	64.8	0.88	-0.28	0.84	18.4	-10.4
13,368.0	87.58	178.28	12,527.1	-826.5	64.8	3.70	0.28	-3.69	18.7	-10.9
13,462.0	88.81	177.58	12,530.1	-922.3	68.2	1.47	1.28	-0.73	19.8	-8.0
13,557.0	88.64	178.11	12,532.2	-1,017.3	71.8	0.59	-0.18	0.56	20.0	-4.9
13,651.0	90.48	177.40	12,533.0	-1,111.2	75.5	2.10	1.96	-0.76	18.8	-1.8
13,746.0	90.31	176.98	12,532.3	-1,206.1	80.2	0.50	-0.18	-0.46	16.2	2.3
13,840.0	90.04	177.05	12,532.0	-1,299.9	85.1	0.30	-0.28	0.10	14.2	6.7
13,935.0	89.69	177.93	12,532.2	-1,394.8	89.2	1.00	-0.37	0.93	12.9	10.3
14,030.0	91.01	177.84	12,531.7	-1,489.8	92.7	1.39	1.39	-0.09	10.8	13.2
14,125.0	90.57	177.40	12,530.4	-1,584.7	96.7	0.65	-0.46	-0.46	7.9	16.6
14,218.0	90.48	178.46	12,529.5	-1,675.6	100.0	1.17	-0.10	1.16	5.6	19.3
14,308.0	89.87	180.22	12,529.2	-1,767.6	101.0	2.02	-0.66	1.91	3.9	19.9
14,403.0	89.34	181.27	12,529.9	-1,862.6	99.8	1.24	-0.56	1.11	3.0	18.1
14,496.0	88.99	181.97	12,531.2	-1,955.5	97.2	0.84	-0.38	0.75	3.4	14.9
14,591.0	88.37	181.01	12,533.4	-2,050.5	94.7	1.20	-0.65	-1.01	4.8	11.9
14,686.0	87.93	181.97	12,536.5	-2,145.4	92.2	1.11	-0.46	1.01	7.0	8.8
14,781.0	87.76	181.80	12,540.1	-2,240.3	89.1	0.25	-0.18	-0.18	9.7	5.2
14,876.0	88.37	180.65	12,543.3	-2,335.2	87.1	1.37	0.64	-1.21	12.1	2.8
14,970.0	88.02	178.46	12,546.2	-2,429.1	87.8	2.36	-0.37	-2.33	14.2	2.8
15,065.0	90.40	179.51	12,547.6	-2,524.1	89.5	2.74	2.51	1.11	14.7	3.9



Midland PVA

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

Local Co-ordinate Reference: Well #706H
 TVD Reference: KB = 25 @ 3522.0usft
 MD Reference: KB = 25 @ 3522.0usft
 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)
15,158.0	90.66	177.84	12,546.7	-2,617.1	91.6	1.82	0.28	-1.80	13.0	5.5
15,250.0	92.07	178.37	12,544.5	-2,709.0	94.7	1.84	1.53	0.58	10.0	8.0
15,343.0	91.45	178.81	12,541.6	-2,801.9	97.0	0.82	-0.67	0.47	6.4	9.7
15,438.0	88.99	180.13	12,541.3	-2,898.9	97.8	2.94	-2.59	1.39	5.2	10.1
15,533.0	91.88	181.89	12,540.6	-2,991.9	98.2	3.57	3.05	1.85	3.6	7.8
15,627.0	89.69	180.48	12,539.3	-3,085.8	94.2	2.78	-2.34	-1.50	1.1	5.3
15,721.0	88.64	180.92	12,540.6	-3,179.8	93.1	1.21	-1.12	0.47	1.3	3.6
15,816.0	88.08	181.89	12,542.5	-3,274.8	90.7	1.12	0.46	1.02	1.9	0.7
15,911.0	88.02	182.24	12,544.9	-3,369.7	87.3	1.18	-1.12	0.37	3.0	-3.2
16,006.0	87.85	182.76	12,548.3	-3,464.5	83.2	0.58	-0.18	0.55	5.2	-7.9
16,101.0	88.11	183.56	12,551.7	-3,559.3	77.9	0.88	0.27	0.84	7.3	-13.7
16,196.0	88.29	180.39	12,554.7	-3,654.2	74.7	3.34	0.19	-3.34	9.0	-17.5
16,290.0	90.40	177.32	12,555.8	-3,748.2	76.6	3.98	2.24	-3.27	8.8	-16.2
16,384.0	90.66	177.32	12,554.9	-3,842.1	80.9	0.28	0.28	0.00	6.7	-12.4
16,479.0	91.71	178.48	12,552.9	-3,937.0	84.4	1.63	1.11	1.20	3.5	-9.4
16,574.0	90.40	177.87	12,551.2	-4,031.9	87.7	1.61	-1.38	-0.83	0.5	-6.8
16,669.0	88.11	178.28	12,552.4	-4,126.8	91.0	2.49	-2.41	0.64	0.5	-4.0
16,764.0	87.23	177.75	12,556.3	-4,221.7	94.3	1.08	-0.93	-0.56	3.1	-1.3
16,859.0	89.60	177.49	12,558.9	-4,316.6	98.2	2.51	2.49	-0.27	4.4	2.1
16,954.0	88.90	178.90	12,560.1	-4,411.5	101.2	1.66	-0.74	1.48	4.4	4.8
17,049.0	89.16	178.28	12,561.7	-4,506.5	103.6	0.71	0.27	-0.65	4.8	6.4
17,152.0	89.60	177.58	12,562.9	-4,609.4	107.3	0.80	0.43	-0.68	4.5	9.5
17,352.0	89.60	177.58	12,564.3	-4,809.2	115.7	0.00	0.00	0.00	3.3	16.7



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Durango 2 State
Well: #708H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #708H
TVD Reference: KB = 25 @ 3522.0usft
MD Reference: KB = 25 @ 3522.0usft
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)	
12,002.0	11,984.3	287.3	39.8	KOP, MD:12002.0', TVD:11984.3', N/S:287.3', E/W:39.8', INC:2.48
12,142.2	12,118.8	256.0	52.8	FTP Crossing, MD:12142.2', TVD:12118.8', N/S:256.0', E/W:52.8', INC:28.63
17,152.0	12,562.9	-4,609.4	107.3	Last MWD Survey (MD=17152.0')
17,352.0	12,564.3	-4,809.2	115.7	Projection to Bit (MD=17352.0')

Checked By: _____ Approved By: _____ Date: _____

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

Kay Maddox 1/20/2020
Signed Date



Lea County, NM (NAD 83 NME)

Durango 2 State #706H

Plan #2

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 @ 3522.00ft 3497.0
Northing 424975.00 Easting 788818.00 Latitude 32° 0' 57.050 N Longitude 103° 32' 24.038 W



To convert a Magnetic Direction to a Grid Direction, Add 8.28°
To convert a Magnetic Direction to a True Direction, Add 8.71° East
To convert a True Direction to a Grid Direction, Subtract 0.43°

SECTION DETAILS

Sec	MD	Inc	Ad	TVD	+W-8	+E-W	Deg	TFace	VFace	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.0		
2	1820.0	0.00	0.00	1820.0	0.0	0.0	0.00	0.00	0.0		
3	1850.0	8.00	12.71	1849.7	10.8	2.4	2.00	12.71	-10.8		
4	5185.3	8.00	12.71	5185.3	235.4	68.8	0.00	0.00	-235.8		
5	6440.4	0.00	0.00	6440.4	308.0	69.0	2.00	180.00	-304.8		
6	12030.9	0.00	0.00	12017.8	308.0	69.0	0.00	0.00	-304.8		
7	12771.2	89.23	178.68	12494.9	-161.7	71.7	12.00	178.68	163.2	TOTW(Durango 2 State #706H)	
8	13285.4	89.23	178.68	12517.0	-1248.7	78.1	0.00	0.00	1250.0		
9	13870.8	89.08	178.68	12517.2	-1250.8	78.2	2.00	0.00	1252.3	TOTW2(Durango 2 State #706H)	
10	14478.8	89.08	178.68	12527.0	-1858.7	81.8	0.00	0.00	1870.0		
11	14499.4	89.50	178.68	12527.3	-1858.8	81.8	2.00	0.00	1880.8	TOTW3(Durango 2 State #706H)	
12	15803.8	89.50	178.68	12537.0	-2938.8	88.4	0.00	0.00	3000.0		
13	15821.8	89.24	178.68	12537.1	-3011.8	88.5	2.00	-180.00	3012.8	PBH4(Durango 2 State #706H)	
14	17420.0	89.24	178.68	12551.0	-4910.0	89.0	0.00	0.00	4911.0		

WELLBORE TAPPOINT DETAILS (MAP CO-ORDINATES)

Name	TVD	+W-8	+E-W	Northing	Easting
TOTW(Durango 2 State #706H)	12517.0	-1248.7	78.1	423728.30	788834.12
TOTW2(Durango 2 State #706H)	12527.0	-1858.7	81.8	423106.20	788838.78
TOTW3(Durango 2 State #706H)	12537.0	-2938.8	88.4	421878.20	788834.38
PBH4(Durango 2 State #706H)	12581.0	-4910.0	89.0	420165.00	788817.00
Brushy Top(Durango 2 State #706H)	7770.0	308.0	69.0	425221.00	788887.00
FTT(Durango 2 State #706H)	12492.0	258.0	69.0	425221.00	788887.00

