



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dauntless 7 Fed

#705H

OH

Design: OH

Midland PVA

22 July, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22 @ 3506.0usft
Site:	Dauntless 7 Fed	MD Reference:	KB = 22 @ 3506.0usft
Well:	#705H	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	Dauntless 7 Fed		
Site Position:		Northing:	414,874.00 usft
From:	Map	Easting:	762,795.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 18.763 N
		Longitude:	103° 37' 4.285 W
		Grid Convergence:	0.38 °

Well	#705H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 8' 18.762 N
		Longitude:	103° 36' 29.382 W
		Ground Level:	3,484.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	8/17/2018	6.84
		Dip Angle (°)	59.98
		Field Strength (nT)	47,763.17043974

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
		Direction (°)	359.62

Survey Program	Date 7/22/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
242.0	22,839.0	Newsco MWD (OH)	MWD
			Description
			OWSG MWD - Standard



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 MD Reference: KB = 22 @ 3506.0usft
 North Reference: Grid
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 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
242.0	0.50	269.70	242.0	0.0	-1.1	0.21	0.21	0.00	-1.1	0.0
425.0	0.30	247.20	425.0	-0.2	-2.3	0.14	-0.11	-12.30	-2.2	-0.7
608.0	0.40	261.00	608.0	-0.3	-3.4	0.12	0.05	18.47	-3.3	0.9
802.0	0.20	231.10	802.0	-0.3	-4.3	0.16	-0.10	-25.72	-3.6	-2.4
991.0	0.20	282.40	991.0	-0.5	-4.9	0.09	0.00	27.14	-4.7	1.5
1,085.0	0.30	258.30	1,085.0	-0.5	-5.3	0.15	0.11	-25.84	-5.3	-0.6
1,256.0	0.30	295.60	1,256.0	-0.4	-8.1	0.11	0.00	21.81	-5.3	3.0
1,445.0	0.40	247.40	1,445.0	-0.4	-7.2	0.16	0.05	-25.50	-6.8	-2.4
1,634.0	0.10	345.20	1,634.0	-0.5	-7.8	0.23	-0.16	51.75	-1.5	7.7
1,822.0	0.20	50.30	1,822.0	-0.2	-7.6	0.10	0.05	34.83	6.0	4.7
1,917.0	0.30	7.40	1,917.0	0.2	-7.5	0.22	0.11	-45.16	0.8	7.4
2,108.0	0.60	20.10	2,108.0	1.6	-7.0	0.17	0.16	8.72	0.9	7.2
2,295.0	0.60	2.80	2,295.0	3.5	-8.7	0.10	0.00	-9.15	-3.2	6.8
2,484.0	1.00	354.80	2,483.9	6.2	-8.8	0.22	0.21	-4.23	-6.8	6.2
2,674.0	1.10	349.70	2,673.9	9.6	-7.2	0.07	0.05	-2.68	-10.7	5.4
2,862.0	1.50	357.80	2,861.9	13.8	-7.7	0.23	0.21	4.31	-14.1	7.1
3,051.0	1.80	15.40	3,050.8	19.2	-7.0	0.31	0.16	9.31	-16.6	11.8
3,240.0	1.10	261.20	3,239.7	21.8	-8.0	1.30	-0.37	-60.42	-4.5	-22.7
3,429.0	1.20	276.60	3,428.7	21.7	-11.7	0.17	0.05	8.15	-14.1	-20.2
3,617.0	1.40	280.20	3,616.7	22.3	-15.9	0.11	0.11	1.91	-19.6	-19.2
3,807.0	0.70	312.00	3,806.6	23.5	-19.1	0.47	-0.37	16.74	-29.9	-4.7
3,998.0	0.60	347.20	3,995.6	25.3	-20.2	0.21	-0.05	16.62	-26.1	14.1
4,185.0	1.00	323.00	4,184.6	27.6	-21.4	0.27	0.21	-12.80	-34.9	0.5
4,374.0	1.10	57.20	4,373.6	29.9	-20.8	0.81	0.05	49.84	1.3	36.4
4,563.0	2.20	106.20	4,562.5	29.7	-15.9	0.92	0.58	26.98	24.3	23.3
4,751.0	6.80	135.70	4,749.9	20.6	-4.7	2.83	2.45	14.83	18.0	11.1



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 MD Reference: KB = 22 @ 3506.0ust
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Survey											
MD (ust)	Inc (°)	Azi (azimuth) (°)	TVD (ust)	N/S (ust)	E/W (ust)	DLeg (°/100ust)	Build (°/100ust)	Turn (°/100ust)	High to Plan (ust)	Right to Plan (ust)	
4,941.0	6.70	138.70	4,938.6	4.2	10.5	0.19	-0.05	1.58	-3.7	10.7	
5,130.0	6.40	136.60	5,128.3	-11.7	25.0	0.20	-0.16	-1.11	-25.4	10.5	
5,320.0	7.80	155.40	5,314.9	-30.8	37.5	1.35	0.83	9.89	-34.6	25.5	
5,509.0	8.60	169.10	5,502.1	-56.1	45.4	1.15	0.53	7.25	-35.2	39.7	
5,698.0	8.50	165.50	5,689.0	-83.5	51.6	0.29	-0.05	-1.90	-48.6	41.5	
5,888.0	1.20	251.80	5,878.3	-87.7	53.2	4.48	-3.84	45.42	41.8	44.4	
6,078.0	1.30	233.40	6,068.2	-99.6	49.6	0.22	0.05	-9.68	33.5	38.9	
6,267.0	1.30	236.60	6,257.2	-102.1	46.1	0.04	0.00	1.69	42.2	20.7	
6,456.0	1.30	245.30	6,446.1	-104.2	42.3	0.10	0.00	4.60	49.0	-3.5	
6,646.0	2.30	186.50	6,636.0	-108.8	39.9	1.04	0.53	-30.95	43.2	36.1	
6,835.0	2.70	189.90	6,824.9	-117.0	38.8	0.23	0.21	1.80	56.5	30.4	
7,024.0	2.40	196.30	7,013.7	-125.1	36.7	0.25	-0.16	4.44	70.6	16.4	
7,213.0	2.30	196.60	7,202.5	-132.5	34.4	0.06	-0.05	-0.90	73.0	15.2	
7,403.0	2.40	209.30	7,392.4	-139.7	31.4	0.28	0.05	6.68	67.6	-0.8	
7,591.0	2.50	206.20	7,580.2	-146.8	27.6	0.09	0.05	-1.65	59.5	2.6	
7,780.0	2.20	201.60	7,769.0	-153.8	24.5	0.19	-0.16	-2.33	51.4	6.9	
7,969.0	1.80	198.00	7,957.9	-160.0	22.2	0.22	-0.21	-2.01	44.2	10.0	
8,159.0	1.80	194.60	8,147.8	-165.8	20.5	0.06	0.00	-1.79	37.6	12.5	
8,347.0	1.80	195.30	8,335.7	-171.5	19.0	0.01	0.00	0.37	31.8	12.0	
8,537.0	1.80	197.50	8,525.6	-177.2	17.3	0.04	0.00	1.16	26.3	10.9	
8,726.0	1.80	203.20	8,714.5	-182.7	15.3	0.09	0.00	3.02	21.4	8.6	
8,915.0	1.60	211.30	8,903.5	-187.7	12.7	0.17	-0.11	4.29	16.8	5.9	
9,104.0	1.50	216.50	9,092.4	-192.0	8.9	0.09	-0.05	2.75	12.1	4.6	
9,293.0	1.10	247.90	9,281.3	-194.6	6.7	0.42	-0.21	16.61	8.8	-1.1	
9,482.0	2.20	250.70	9,470.3	-196.5	1.6	0.58	0.58	1.48	3.3	-1.5	
9,671.0	2.10	228.00	9,659.1	-200.0	-4.4	0.45	-0.05	-12.01	-3.2	-1.5	
9,860.0	2.10	270.20	9,848.0	-202.3	-10.4	0.60	0.00	22.33	-9.4	3.4	



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10,049.0	3.30	288.80	10,036.8	-200.6	-19.0	0.78	0.63	9.84	-16.5	7.3	
10,238.0	2.90	284.20	10,225.5	-197.6	-28.8	0.25	-0.21	-2.43	-27.3	5.5	
10,427.0	2.60	270.70	10,414.3	-196.4	-37.7	0.38	-0.16	-7.14	-36.8	-2.1	
10,522.0	1.50	338.20	10,509.3	-195.2	-40.3	2.58	-1.16	71.05	-18.1	35.1	
10,616.0	1.00	355.80	10,603.2	-193.3	-40.9	0.66	-0.53	18.72	-8.6	39.3	
10,711.0	0.80	42.60	10,698.2	-192.0	-40.5	0.78	-0.21	49.26	21.5	33.8	
10,805.0	0.80	45.70	10,792.2	-191.0	-39.6	0.05	0.00	3.30	22.0	32.6	
10,900.0	0.80	8.30	10,887.2	-189.9	-39.0	0.54	0.00	-39.37	-3.5	38.9	
11,089.0	1.20	343.80	11,076.2	-188.7	-39.3	0.31	0.21	-12.96	-22.5	33.4	
11,279.0	1.80	289.80	11,266.1	-183.8	-42.7	0.77	0.32	-28.42	-44.4	-0.2	
11,468.0	1.20	292.40	11,455.1	-182.0	-47.3	0.32	-0.32	1.38	-49.3	2.0	
11,657.0	0.40	245.50	11,644.0	-181.5	-49.8	0.51	-0.42	-24.81	-37.1	-38.1	
11,704.0	1.70	214.20	11,691.0	-182.2	-50.3	2.92	2.77	-66.60	-13.8	-50.2	
11,777.0	2.00	218.00	11,784.0	-184.1	-51.7	0.44	0.41	5.21	-19.4	-49.1	
11,872.0	3.60	236.40	11,858.9	-187.0	-55.2	1.91	1.68	19.37	-38.5	-40.0	
11,920.0	12.30	250.20	11,906.4	-189.6	-61.3	18.43	18.12	28.75	-53.3	-29.6	
11,988.0	21.00	258.90	11,952.3	-193.0	-74.6	18.81	18.12	18.12	-71.4	-17.6	
12,063.0	28.70	295.10	12,038.6	-186.2	-112.9	18.32	9.16	38.11	-83.4	62.1	
12,111.0	32.00	311.50	12,078.9	-172.7	-133.2	18.11	4.79	34.17	-83.0	103.1	
12,158.0	37.10	323.70	12,118.6	-153.0	-151.0	18.24	10.85	25.96	-67.4	133.9	
12,184.0	41.50	329.10	12,138.7	-139.3	-160.0	21.42	18.92	20.77	-58.5	147.6	
12,252.0	48.30	341.40	12,187.8	-98.6	-179.5	14.37	7.06	18.09	-41.4	172.9	
12,347.0	58.20	1.80	12,248.2	-22.9	-189.3	21.00	12.53	21.47	-10.8	187.4	
12,395.0	62.70	10.00	12,269.9	18.5	-184.9	17.56	9.37	17.08	-5.8	183.6	
12,441.0	62.40	10.20	12,291.2	58.7	-177.8	0.76	-0.65	0.43	-9.3	176.5	
12,538.0	62.90	10.10	12,334.8	141.8	-182.9	0.53	0.53	-0.11	-2.8	160.5	
12,630.0	71.50	15.00	12,371.2	226.2	-144.0	10.33	9.15	5.21	14.7	139.5	



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12,725.0	87.60	15.70	12,388.4	316.0	-119.3	16.96	16.95	0.74	18.9	114.7
12,819.0	98.00	15.80	12,385.4	408.4	-83.8	8.94	8.94	0.11	11.7	89.2
12,913.0	98.70	18.80	12,375.0	495.5	-68.0	3.26	0.74	3.19	1.0	60.7
13,007.0	93.00	16.50	12,367.1	584.8	-37.7	4.63	-3.94	-2.45	-5.4	-31.5
13,102.0	90.80	15.80	12,363.9	676.0	-11.3	2.43	-2.32	-0.74	-8.1	4.5
13,196.0	87.00	9.20	12,365.7	767.7	9.1	8.10	-4.04	-7.02	-6.5	-16.2
13,290.0	87.80	4.10	12,370.0	860.9	19.9	5.49	0.85	-5.43	-2.2	-27.8
13,385.0	87.90	0.80	12,373.6	955.7	24.0	3.47	0.11	-3.47	1.3	-32.4
13,479.0	87.70	358.60	12,377.2	1,049.7	23.5	2.35	-0.21	-2.34	4.9	-32.6
13,574.0	88.30	359.10	12,380.5	1,144.6	21.6	0.82	0.63	0.53	8.1	-31.3
13,669.0	87.20	358.50	12,384.2	1,239.5	19.6	1.32	-1.16	-0.63	11.7	-29.9
13,763.0	90.90	358.30	12,385.8	1,333.4	17.0	3.94	3.94	-0.21	13.1	-27.9
13,858.0	91.00	357.80	12,384.2	1,428.3	13.8	0.54	0.11	-0.53	11.5	-25.3
13,952.0	90.10	357.10	12,383.3	1,522.2	9.6	1.21	-0.96	-0.74	10.5	-21.7
14,047.0	92.10	356.20	12,381.5	1,617.1	4.0	2.31	2.11	-0.95	8.5	-16.7
14,142.0	92.00	355.40	12,378.1	1,711.7	-2.9	0.85	-0.11	-0.84	5.0	-10.4
14,236.0	91.80	358.80	12,375.0	1,805.6	-7.7	3.62	-0.21	3.62	1.8	-6.2
14,331.0	91.50	359.20	12,372.2	1,900.5	-9.3	0.53	-0.32	0.42	-1.0	-5.2
14,425.0	88.90	359.30	12,371.9	1,994.5	-10.6	2.77	-2.77	0.11	-1.5	-4.8
14,520.0	89.80	359.60	12,373.0	2,089.5	-11.5	1.00	0.95	0.32	-0.5	-4.3
14,614.0	92.70	0.30	12,370.9	2,183.4	-11.8	3.17	3.09	0.74	-2.7	-4.8
14,708.0	88.70	359.00	12,371.4	2,277.4	-12.1	6.53	-6.38	-1.38	-2.3	-4.8
14,803.0	88.70	358.80	12,376.9	2,372.2	-14.0	0.21	0.00	-0.21	3.1	-3.6
14,897.0	88.70	359.50	12,380.7	2,466.1	-15.3	2.25	2.13	0.74	6.8	-2.8
14,992.0	88.00	358.30	12,383.4	2,561.1	-17.2	1.46	-0.74	-1.26	9.4	-1.6
15,086.0	91.40	359.00	12,383.9	2,655.0	-19.4	3.69	3.62	0.74	9.8	0.0
15,180.0	92.60	358.60	12,380.6	2,748.9	-21.3	1.35	1.28	-0.43	6.4	1.4



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15,275.0	91.00	358.30	12,377.8	2,843.9	-23.9	1.71	-1.68	-0.32	3.3	3.3	
15,369.0	88.90	359.60	12,377.7	2,937.8	-25.6	2.63	-2.23	1.38	3.3	4.4	
15,463.0	89.00	359.80	12,379.4	3,031.8	-26.1	0.24	0.11	0.21	4.9	4.3	
15,558.0	89.10	359.70	12,381.0	3,128.8	-26.5	0.15	0.11	-0.11	6.4	4.1	
15,651.0	88.40	0.00	12,383.0	3,219.8	-26.8	0.82	-0.75	0.32	8.3	3.8	
15,746.0	90.10	359.00	12,384.3	3,314.8	-27.6	2.08	1.79	-1.05	9.4	4.0	
15,840.0	92.80	359.30	12,381.9	3,408.7	-29.0	2.89	2.87	0.32	8.9	4.8	
15,935.0	88.80	359.20	12,379.7	3,503.7	-30.3	3.16	-3.16	-0.11	4.7	5.4	
16,029.0	89.50	0.10	12,380.3	3,597.7	-30.8	1.01	-0.32	0.96	5.1	5.4	
16,123.0	92.20	0.70	12,378.9	3,691.7	-30.2	2.94	2.87	0.64	3.6	4.1	
16,218.0	92.50	1.40	12,375.0	3,786.6	-28.4	0.80	0.32	0.74	-0.4	1.8	
16,313.0	88.60	0.80	12,374.1	3,881.5	-26.6	4.15	-4.11	-0.63	-1.4	-0.7	
16,407.0	87.60	2.20	12,377.2	3,975.4	-24.2	1.83	-1.06	1.49	1.6	-3.7	
16,502.0	88.10	2.20	12,380.8	4,070.3	-20.5	0.53	0.53	0.00	5.1	-8.0	
16,596.0	89.00	358.30	12,383.2	4,164.2	-20.1	4.26	0.96	-4.15	7.4	-9.0	
16,690.0	89.20	357.60	12,384.7	4,258.2	-23.5	0.77	0.21	-0.74	8.7	-6.3	
16,785.0	90.30	357.40	12,385.1	4,353.1	-27.6	1.18	1.16	-0.21	9.0	-2.7	
16,880.0	91.20	356.90	12,383.8	4,447.9	-32.3	1.08	0.95	-0.53	7.7	1.4	
16,975.0	93.00	358.10	12,380.3	4,542.8	-36.5	2.28	1.89	1.26	4.1	4.9	
17,069.0	93.40	359.20	12,378.1	4,636.6	-38.7	1.24	0.43	1.17	-1.2	6.5	
17,194.0	91.50	1.90	12,369.8	4,761.5	-37.5	2.84	-1.52	2.16	-6.7	4.5	
17,258.0	89.80	2.50	12,369.0	4,825.4	-35.0	2.82	-2.66	0.94	-7.5	1.6	
17,353.0	87.60	1.30	12,371.2	4,820.3	-31.9	2.64	-2.32	-1.26	-5.5	-2.1	
17,447.0	88.20	1.30	12,374.6	5,014.3	-28.7	0.64	0.64	0.00	-2.1	-4.8	
17,542.0	88.80	1.30	12,377.1	5,109.2	-27.6	0.63	0.63	0.00	0.2	-7.6	
17,636.0	90.20	1.70	12,377.9	5,203.2	-25.1	1.55	1.49	0.43	1.0	-10.7	
17,730.0	90.30	0.80	12,377.5	5,297.1	-23.1	0.96	0.11	-0.96	0.4	-13.3	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Dauntless 7 Fed
 Well: #705H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 22 @ 3506.0usft
 MD Reference: KB = 22 @ 3506.0usft
 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)
17,825.0	92.10	1.40	12,375.5	5,392.1	-21.3	2.00	1.89	0.83	-1.6	-15.8
17,920.0	89.80	0.30	12,374.0	5,487.1	-19.8	2.88	-2.42	-1.16	-3.3	-17.8
18,015.0	85.00	0.00	12,378.3	5,581.9	-19.6	5.08	-5.05	-0.32	0.9	-18.7
18,110.0	86.20	0.80	12,385.6	5,676.6	-18.9	1.52	1.26	0.84	8.0	-19.9
18,204.0	87.20	1.10	12,391.0	5,770.5	-17.4	1.11	1.06	0.32	13.3	-22.1
18,299.0	87.90	359.20	12,395.0	5,865.4	-17.1	2.13	0.74	-2.00	17.3	-22.9
18,394.0	92.10	359.10	12,395.0	5,960.4	-18.5	4.42	4.42	-0.11	17.2	-22.2
18,488.0	92.40	358.70	12,391.3	6,054.3	-20.3	0.53	0.32	-0.43	13.4	-21.0
18,582.0	93.80	359.20	12,386.3	6,148.1	-22.1	1.58	1.49	0.53	8.2	-19.8
18,677.0	93.00	358.70	12,380.6	6,242.9	-23.8	0.99	-0.84	-0.53	2.5	-18.7
18,772.0	92.30	358.30	12,378.2	6,337.8	-26.3	0.85	-0.74	-0.42	-2.0	-18.8
18,866.0	89.90	0.00	12,374.4	6,431.7	-27.7	3.13	-2.55	1.81	-3.9	-16.0
18,961.0	90.70	0.80	12,373.9	6,526.7	-27.0	1.19	0.84	0.84	-4.5	-17.3
19,055.0	88.90	1.20	12,374.3	6,620.7	-25.4	1.96	-1.91	0.43	-4.3	-19.6
19,150.0	88.60	2.00	12,376.3	6,715.7	-22.7	0.90	-0.32	0.84	-2.4	-22.8
19,245.0	87.10	359.80	12,379.9	6,810.6	-21.2	2.80	-1.58	-2.32	1.1	-24.9
19,340.0	89.90	358.30	12,382.4	6,905.5	-22.8	3.34	2.95	-1.58	3.5	-24.0
19,435.0	90.60	358.30	12,382.0	7,000.5	-25.6	0.74	0.74	0.00	3.0	-21.8
19,530.0	90.50	358.00	12,381.1	7,095.4	-28.7	0.33	-0.11	-0.32	2.0	-19.3
19,624.0	89.00	358.10	12,381.5	7,189.4	-31.9	1.60	-1.60	0.11	2.3	-16.7
19,719.0	90.20	358.60	12,382.1	7,284.3	-34.6	1.37	1.26	0.53	2.9	-14.6
19,814.0	93.50	0.00	12,379.1	7,379.2	-35.8	3.77	3.47	1.47	-0.3	-14.0
19,977.0	87.20	358.20	12,378.1	7,542.1	-38.3	4.02	-3.87	-1.10	-1.4	-12.5
20,017.0	89.40	357.80	12,379.3	7,582.1	-39.7	5.59	5.50	-1.00	-0.3	-11.4
20,088.0	84.50	358.30	12,382.0	7,633.0	-41.5	9.66	-9.61	0.98	2.4	-10.0
20,223.0	84.30	356.40	12,397.1	7,787.1	-48.6	1.23	-0.13	-1.23	17.4	-3.9
20,286.0	88.40	0.40	12,401.1	7,849.9	-50.4	9.08	6.51	6.35	21.3	-2.5



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Dauntless 7 Fed
 Well: #705H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #705H
 TVD Reference: KB = 22 @ 3508.0usft
 MD Reference: KB = 22 @ 3508.0usft
 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)	
20,414.0	91.20	357.80	12,401.5	7,977.8	-52.4	2.99	2.19	-2.03	21.6	-1.3	
20,571.0	90.20	349.60	12,399.6	8,133.7	-69.6	5.26	-0.64	-5.22	19.7	14.7	
20,665.0	93.10	353.40	12,396.9	8,226.6	-83.5	5.08	3.09	4.04	17.0	28.1	
20,780.0	92.00	0.00	12,392.7	8,321.3	-88.9	7.04	-1.16	6.95	12.4	33.0	
20,855.0	91.60	359.20	12,389.7	8,416.3	-89.6	0.94	-0.42	-0.84	9.4	33.1	
20,950.0	91.30	1.30	12,387.3	8,511.3	-89.2	2.23	-0.32	2.21	6.9	32.1	
21,044.0	90.30	0.10	12,386.0	8,605.2	-88.0	1.66	-1.06	-1.28	5.5	30.3	
21,138.0	91.80	1.00	12,384.3	8,699.2	-87.1	1.86	1.60	0.96	3.7	28.8	
21,328.0	87.40	358.30	12,385.6	8,689.1	-88.3	2.72	-2.32	-1.42	4.8	28.7	
21,423.0	91.10	2.30	12,386.8	8,884.1	-87.8	5.73	3.89	4.21	6.0	27.6	
21,518.0	91.20	2.60	12,384.9	9,079.0	-83.7	0.33	0.11	0.32	4.0	22.9	
21,612.0	90.00	1.10	12,383.9	9,172.9	-80.7	2.04	-1.28	-1.60	2.9	19.3	
21,707.0	91.20	2.90	12,383.0	9,267.9	-77.4	2.28	1.26	1.89	1.8	15.4	
21,801.0	92.40	1.80	12,380.0	9,361.7	-73.5	1.73	1.28	-1.17	-1.2	10.9	
21,896.0	90.80	0.40	12,377.3	9,456.7	-71.7	2.24	-1.68	-1.47	-4.0	8.5	
21,991.0	88.70	0.80	12,377.8	9,551.7	-70.7	2.25	-2.21	0.42	-3.6	6.9	
22,086.0	87.50	359.20	12,380.9	9,646.6	-70.7	2.10	-1.26	-1.68	-0.6	6.3	
22,180.0	87.60	358.30	12,384.9	9,740.5	-72.8	0.96	0.11	-0.96	3.4	7.7	
22,275.0	87.50	356.90	12,389.0	9,835.3	-76.7	1.48	-0.11	-1.47	7.3	11.1	
22,368.0	88.30	356.40	12,392.4	9,928.1	-82.2	1.01	0.86	-0.54	10.6	15.9	
22,462.0	88.90	357.10	12,394.7	10,021.9	-87.5	0.98	0.64	0.74	12.9	20.6	
22,556.0	89.60	356.50	12,395.9	10,115.8	-92.7	0.98	0.74	-0.64	14.0	25.3	
22,639.0	89.60	356.50	12,396.5	10,198.6	-97.8	0.00	0.00	0.00	14.5	29.6	



Midland PVA

Company: EOG Resources - Midland
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Site: Dauntless 7 Fed
Well: #705H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #705H
TVD Reference: KB = 22 @ 3508.0usft
MD Reference: KB = 22 @ 3508.0usft
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)	
11,860.0	11,848.9	-188.6	-54.8	KOP, MD:11860.0', TVD:11848.9', N/S:-188.6', E/W:-54.8', INC:3.39
12,166.1	12,125.0	-149.0	-153.8	FTP Crossing, MD:12166.1', TVD:12125.0', N/S:-149.0', E/W:-153.8', INC:38.44
22,556.0	12,395.9	10,115.8	-92.7	Last MWD Survey (MD=22556.0')
22,639.0	12,396.5	10,198.6	-97.8	Projection to Bit (MD=22639.0')

Checked By: _____ Approved By: _____ Date: _____

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

Kay Maddox 11/12/2019
Signed Date



Lea County, NM (NAD 83 NME)

Dauntless 7 Fed #705H

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: #705H

KB = 22 @ 3506.0usft 3484.0
Northing 414894.00 Easting 765795.00 Latitude 32° 5' 18.762 N Longitude 103° 36' 29.382 W

SECTION DETAILS

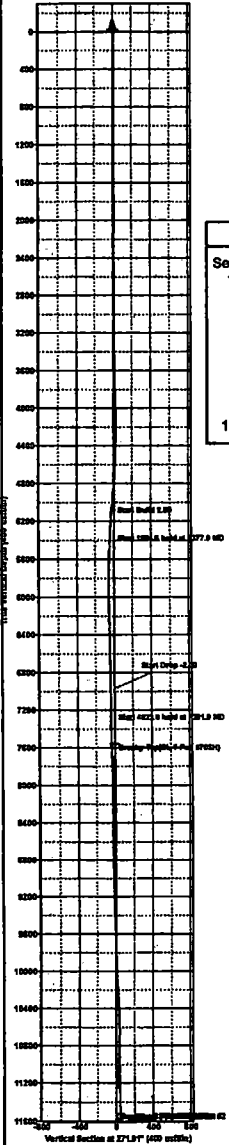
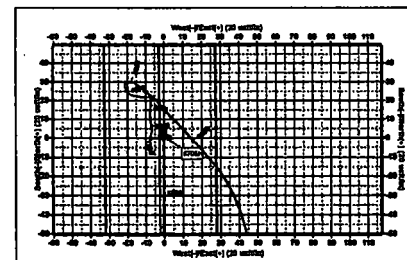
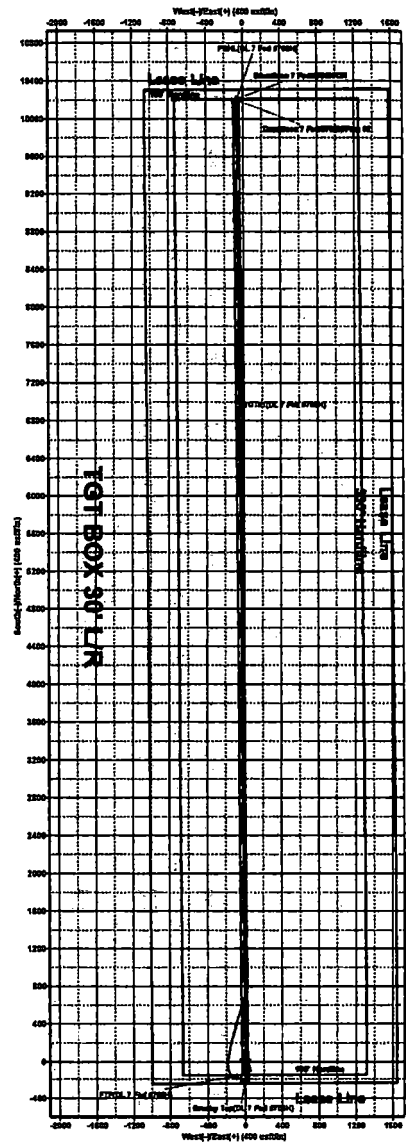
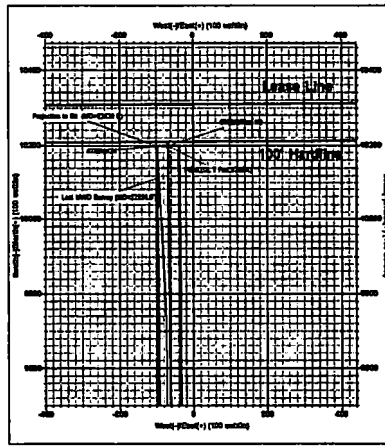
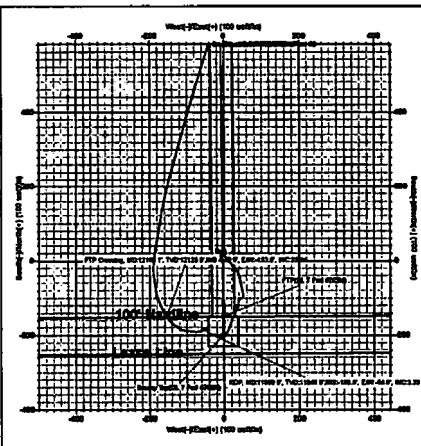
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VSeal	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	5078.0	0.00	0.00	5078.0	0.0	0.0	0.00	0.00	0.0	
3	5377.9	8.00	180.29	5377.4	-15.7	-0.1	2.00	180.29	-15.7	
4	6981.9	8.00	180.29	6972.6	-183.3	-0.9	0.00	0.00	-183.3	
5	7281.9	0.00	0.00	7272.0	-199.0	-1.0	2.00	180.00	-199.0	
6	11903.9	0.00	0.00	11894.0	-199.0	-1.0	0.00	0.00	-199.0	
7	12653.3	89.94	359.63	12371.5	277.9	-4.1	12.00	359.63	277.9	
8	19385.4	89.94	359.63	12379.0	7009.6	-47.4	0.00	0.00	7010.0	TGTW1(DL 7 Fed #705H)
9	19385.9	89.95	359.63	12379.0	7010.3	-47.4	2.00	0.00	7010.5	
10	22575.6	89.95	359.63	12382.0	10200.0	-48.0	0.00	0.00	10200.2	PBHL(DL 7 Fed #705H)

CASING DETAILS

No casing data is available

WELLSBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(DL 7 Fed #705H)	7058.0	-199.0	-1.0	414895.00	765795.00
PTP(DL 7 Fed #705H)	12371.5	-149.0	-1.0	414743.00	765795.00
TGTW1(DL 7 Fed #705H)	12379.0	7009.6	-47.4	421903.00	765748.55
PBHL(DL 7 Fed #705H)	12382.0	10200.0	-48.0	420994.00	765728.00



Lea County, NM (NAD 83 NME)
Dauntless 7 Fed #705H
Plan #2