

HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dauntless 7 Fed

#722H

OH

Design: OH

Midland PVA

22 May, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #722H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3499.0usft
Site:	Dauntless 7 Fed	MD Reference:	KB = 25 @ 3499.0usft
Well:	#722H	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	#722H		
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	3/26/2018	8.77
			Dip Angle
			59.96
			Field Strength
			47,701.45076191

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	11,741.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			359.20



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Survey Program		Date 5/22/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
135.0	11,741.0	Newsco MWD (Pilot)	MWD	OWSG MWD - Standard
11,937.0	22,719.0	Newsco MWD (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
135.0	0.50	304.40	135.0	0.3	-0.5	0.37	0.37	0.00	0.0	0.0
318.0	0.60	42.10	318.0	1.5	-0.5	0.45	0.05	53.39	0.0	0.0
497.0	1.30	87.40	497.0	2.3	2.2	0.55	0.39	25.31	0.0	0.0
680.0	1.70	103.20	679.9	1.8	6.9	0.31	0.22	8.63	0.0	0.0
872.0	2.40	106.30	871.8	0.0	13.5	0.37	0.36	1.61	0.0	0.0
1,059.0	3.20	102.70	1,058.6	-2.3	22.4	0.44	0.43	-1.93	0.0	0.0
1,129.0	3.10	103.10	1,128.5	-3.1	28.1	0.15	-0.14	0.57	0.0	0.0
1,255.0	3.00	114.00	1,254.3	-5.2	32.4	0.47	-0.08	8.65	0.0	0.0
1,443.0	0.50	77.00	1,442.2	-7.1	37.7	1.39	-1.33	-19.68	0.0	0.0
1,629.0	0.80	326.60	1,628.2	-5.8	37.8	0.58	0.16	-59.35	0.0	0.0
1,816.0	0.80	5.80	1,815.1	-3.2	37.2	0.31	0.05	21.02	0.0	0.0
2,003.0	2.80	315.30	2,002.1	1.5	34.2	1.25	1.02	-27.08	0.0	0.0
2,190.0	3.70	324.60	2,188.8	9.6	27.5	0.56	0.48	4.97	0.0	0.0
2,377.0	4.30	324.10	2,375.3	20.2	19.9	0.32	0.32	-0.27	0.0	0.0
2,564.0	3.60	300.00	2,561.9	28.8	10.7	0.95	-0.37	-12.89	0.0	0.0
2,750.0	3.00	266.70	2,747.6	31.5	0.7	1.06	-0.32	-17.90	0.0	0.0
2,937.0	2.40	223.70	2,934.4	28.4	-6.8	1.10	-0.32	-22.99	0.0	0.0
3,124.0	2.30	118.40	3,121.3	23.8	-6.3	2.00	-0.05	-56.31	0.0	0.0
3,311.0	2.00	103.00	3,308.2	21.2	0.2	0.35	-0.16	-8.24	0.0	0.0
3,498.0	1.80	175.80	3,495.1	17.6	3.6	1.21	-0.11	38.93	0.0	0.0



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 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)	
3,688.0	0.50	217.00	3,683.0	14.0	3.3	0.78	-0.69	21.91	0.0	0.0	
3,873.0	2.20	53.60	3,870.0	15.5	5.7	1.43	0.91	-87.38	0.0	0.0	
4,059.0	0.90	212.20	4,056.0	16.3	7.8	1.64	-0.70	85.27	0.0	0.0	
4,246.0	0.90	246.20	4,242.9	14.5	5.7	0.28	0.00	18.18	0.0	0.0	
4,433.0	2.20	132.20	4,428.9	11.5	7.0	1.44	0.70	-60.96	0.0	0.0	
4,620.0	2.00	181.70	4,616.8	5.9	9.0	1.12	-0.11	31.82	0.0	0.0	
4,807.0	2.50	153.20	4,803.7	-0.9	10.2	0.83	0.27	-20.59	0.0	0.0	
4,837.0	2.60	153.10	4,833.6	-2.1	10.8	0.33	0.33	-0.33	0.0	0.0	
4,991.0	2.10	169.60	4,987.5	-8.0	12.9	0.54	-0.32	10.71	0.0	0.0	
5,085.0	4.00	202.20	5,081.4	-12.8	12.0	2.68	2.02	34.68	0.0	0.0	
5,178.0	4.30	203.40	5,174.1	-19.0	9.4	0.34	0.32	1.29	0.0	0.0	
5,272.0	4.40	204.30	5,267.9	-25.5	6.5	0.13	0.11	0.96	0.0	0.0	
5,366.0	4.10	202.60	5,361.6	-31.9	3.7	0.35	-0.32	-1.81	0.0	0.0	
5,460.0	3.90	201.40	5,455.4	-38.0	1.2	0.23	-0.21	-1.28	0.0	0.0	
5,553.0	3.60	202.40	5,548.2	-43.6	-1.0	0.33	-0.32	1.08	0.0	0.0	
5,647.0	3.50	198.70	5,642.0	-49.0	-3.1	0.27	-0.11	-3.94	0.0	0.0	
5,835.0	3.50	210.90	5,829.6	-59.4	-7.9	0.40	0.00	6.49	0.0	0.0	
6,022.0	5.70	205.40	6,016.0	-72.7	-14.8	1.20	1.18	-2.94	0.0	0.0	
6,210.0	5.10	204.80	6,203.2	-88.7	-22.3	0.32	-0.32	-0.32	0.0	0.0	
6,397.0	5.20	202.30	6,389.4	-104.1	-29.0	0.13	0.05	-1.34	0.0	0.0	
6,584.0	5.10	201.00	6,575.7	-119.7	-35.2	0.08	-0.05	-0.70	0.0	0.0	
6,771.0	5.00	198.50	6,762.0	-135.2	-40.7	0.13	-0.05	-1.34	0.0	0.0	
6,958.0	4.80	201.90	6,948.3	-150.2	-46.2	0.19	-0.11	1.82	0.0	0.0	
7,144.0	4.80	200.60	7,133.6	-164.7	-51.9	0.06	0.00	-0.70	0.0	0.0	
7,330.0	4.40	202.10	7,319.0	-178.6	-57.3	0.22	-0.22	0.81	0.0	0.0	
7,517.0	3.90	205.90	7,505.5	-190.9	-62.8	0.31	-0.27	2.03	0.0	0.0	
7,703.0	1.80	213.00	7,691.3	-199.1	-67.1	1.14	-1.13	3.82	0.0	0.0	



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Survey											
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7,890.0	1.80	210.80	7,878.2	-204.1	-70.2	0.04	0.00	-1.18	0.0	0.0	
8,077.0	1.70	216.00	8,065.1	-208.8	-73.4	0.10	-0.05	2.78	0.0	0.0	
8,263.0	1.70	206.70	8,251.0	-213.5	-76.2	0.15	0.00	-5.00	0.0	0.0	
8,451.0	1.10	34.90	8,439.0	-214.5	-76.5	1.49	-0.32	-91.38	0.0	0.0	
8,638.0	0.50	71.10	8,626.0	-212.8	-74.7	0.40	-0.32	19.38	0.0	0.0	
8,825.0	0.40	178.30	8,813.0	-213.2	-73.9	0.39	-0.05	57.33	0.0	0.0	
9,012.0	1.10	219.00	9,000.0	-215.2	-75.0	0.45	0.37	21.78	0.0	0.0	
9,199.0	1.50	323.00	9,186.9	-214.7	-77.6	1.10	0.21	55.61	0.0	0.0	
9,386.0	1.50	307.60	9,373.9	-211.2	-81.0	0.21	0.00	-8.24	0.0	0.0	
9,574.0	1.00	251.30	9,561.8	-210.3	-84.5	0.67	-0.27	-29.95	0.0	0.0	
9,761.0	1.30	294.70	9,748.8	-209.9	-88.0	0.48	0.16	23.21	0.0	0.0	
9,948.0	1.80	301.20	9,935.7	-207.5	-92.4	0.28	0.27	3.48	0.0	0.0	
10,135.0	2.40	320.60	10,122.6	-202.9	-97.4	0.49	0.32	10.37	0.0	0.0	
10,323.0	1.30	273.50	10,310.5	-199.8	-102.0	0.95	-0.59	-25.05	0.0	0.0	
10,510.0	0.50	340.80	10,497.5	-198.9	-104.4	0.64	-0.43	35.99	0.0	0.0	
10,697.0	1.00	68.80	10,684.5	-197.4	-103.2	0.58	0.27	45.99	0.0	0.0	
10,884.0	0.90	286.40	10,871.5	-198.4	-103.1	0.96	-0.05	-75.08	0.0	0.0	
11,072.0	1.00	307.30	11,059.5	-195.0	-105.8	0.19	0.05	11.12	0.0	0.0	
11,260.0	0.80	71.50	11,247.4	-193.7	-106.2	0.76	-0.21	66.06	0.0	0.0	
11,446.0	2.10	258.40	11,433.4	-194.1	-108.6	1.45	0.81	-93.06	0.0	0.0	
11,632.0	2.80	255.30	11,619.2	-195.9	-116.3	0.38	0.38	-1.87	0.0	0.0	
11,741.0	2.60	248.80	11,728.1	-197.5	-121.2	0.34	-0.18	-5.96	0.0	0.0	
11,937.0	3.30	328.90	11,923.9	-194.2	-128.3	1.98	0.36	40.87	-6.3	-5.7	
12,030.0	18.30	16.30	12,015.1	-177.8	-125.5	17.47	16.13	50.97	-29.9	-0.2	
12,123.0	18.30	14.60	12,103.4	-149.7	-117.8	0.57	0.00	-1.83	-64.9	-4.8	
12,215.0	23.00	12.50	12,189.5	-118.1	-110.2	5.17	5.11	-2.28	-96.8	-12.0	
12,309.0	31.50	10.40	12,273.0	-76.0	-101.8	9.10	9.04	-2.23	-118.7	-22.2	



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12,403.0	35.30	18.60	12,351.5	-26.0	-88.7	6.27	4.04	8.72	-130.0	-17.9	
12,496.0	46.30	15.70	12,421.8	32.0	-71.0	12.00	11.83	-3.12	-125.0	-40.5	
12,591.0	54.20	7.20	12,482.5	103.5	-56.8	10.78	8.32	-8.95	-106.5	-60.6	
12,684.0	63.20	0.80	12,530.8	182.6	-51.5	11.32	9.68	-6.88	-81.9	-59.9	
12,744.0	71.60	1.30	12,553.9	237.9	-50.5	14.02	14.00	0.83	-68.6	-52.2	
12,778.0	72.20	0.90	12,564.4	270.2	-49.9	2.09	1.76	-1.18	-56.3	-48.6	
12,871.0	79.80	355.90	12,588.9	360.3	-52.4	9.69	8.17	-5.38	-34.4	-35.3	
12,964.0	83.00	355.90	12,600.8	452.0	-59.0	3.44	3.44	0.00	-20.4	-23.3	
13,058.0	86.30	357.80	12,609.6	545.5	-84.1	4.05	3.51	2.02	-11.3	-17.2	
13,151.0	91.00	357.80	12,611.8	638.4	-87.7	5.05	5.05	0.00	-8.6	-14.2	
13,244.0	92.30	358.30	12,609.1	731.3	-70.9	1.50	1.40	0.54	-10.8	-11.6	
13,338.0	87.90	357.90	12,608.9	825.2	-74.0	4.70	-4.68	-0.43	-10.4	-9.1	
13,432.0	88.40	358.00	12,612.0	919.1	-77.4	0.54	0.53	0.11	-6.9	-6.3	
13,525.0	88.00	357.10	12,614.9	1,011.9	-81.3	1.06	-0.43	-0.97	-3.4	-3.0	
13,618.0	91.50	358.60	12,615.3	1,104.9	-84.8	4.09	3.76	1.61	-2.5	-0.1	
13,712.0	92.50	358.80	12,612.0	1,198.8	-86.9	1.08	1.06	0.21	-5.3	1.5	
13,805.0	93.40	357.90	12,607.2	1,291.6	-89.6	1.37	0.97	-0.97	-9.6	3.6	
13,898.0	90.40	358.40	12,604.2	1,384.5	-92.6	3.27	-3.23	0.54	-12.1	5.9	
13,992.0	87.60	354.20	12,605.8	1,478.3	-88.7	5.37	-2.98	-4.47	-10.0	11.4	
14,086.0	89.00	356.40	12,608.6	1,571.9	-106.4	2.77	1.49	2.34	-6.7	18.5	
14,179.0	90.90	0.00	12,608.7	1,664.8	-109.3	4.38	2.04	3.87	-6.1	20.8	
14,273.0	90.80	0.20	12,607.3	1,758.8	-109.1	0.24	-0.11	0.21	-7.0	20.1	
14,366.0	91.60	0.90	12,605.3	1,851.8	-108.2	1.14	0.88	0.75	-8.4	18.6	
14,461.0	89.30	0.90	12,604.6	1,946.8	-106.8	2.42	-2.42	0.00	-8.6	16.5	
14,555.0	88.20	0.80	12,606.6	2,040.7	-105.5	1.21	-1.17	-0.32	-6.0	14.6	
14,648.0	87.40	0.00	12,610.2	2,133.7	-105.0	1.07	-0.86	-0.65	-2.0	13.8	
14,742.0	90.60	0.60	12,611.8	2,227.6	-104.5	3.46	3.40	0.64	0.2	12.5	



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14,837.0	88.00	0.20	12,813.0	2,322.6	-103.9	2.77	-2.74	-0.42	1.9	11.2	
14,930.0	88.40	0.50	12,815.9	2,415.8	-103.3	0.54	0.43	0.32	5.2	10.0	
15,023.0	88.30	0.50	12,818.6	2,508.5	-102.5	0.11	-0.11	0.00	8.1	8.6	
15,117.0	90.00	2.20	12,820.0	2,602.5	-100.3	2.56	1.81	1.81	9.9	5.8	
15,211.0	88.50	2.60	12,821.2	2,696.4	-98.4	1.65	-1.60	0.43	11.4	1.3	
15,305.0	91.60	5.50	12,821.1	2,790.1	-89.7	4.52	3.30	3.09	11.6	-5.9	
15,399.0	88.50	4.10	12,821.1	2,883.8	-81.9	3.62	-3.30	-1.49	11.9	-14.4	
15,482.0	89.10	5.10	12,823.0	2,976.5	-74.4	1.25	0.65	1.08	14.1	-22.5	
15,586.0	89.00	1.60	12,824.6	3,070.3	-68.9	3.72	-0.11	-3.72	16.0	-28.6	
15,680.0	90.30	0.50	12,825.1	3,164.3	-67.2	1.81	1.38	-1.17	16.9	-30.8	
15,773.0	89.50	358.20	12,825.3	3,257.3	-68.2	2.62	-0.86	-2.47	17.3	-30.4	
15,866.0	92.20	358.80	12,823.9	3,350.2	-70.7	2.97	2.90	0.65	16.2	-28.6	
15,959.0	87.10	356.60	12,824.5	3,443.1	-74.4	5.97	-5.48	-2.37	17.2	-25.4	
16,053.0	89.60	359.30	12,827.2	3,537.0	-77.8	3.91	2.66	2.87	20.2	-22.7	
16,145.0	90.30	358.50	12,827.3	3,629.0	-79.5	1.16	0.76	-0.87	20.5	-21.5	
16,238.0	88.60	356.80	12,829.8	3,721.8	-83.3	4.38	-3.98	-1.83	23.4	-18.3	
16,331.0	87.80	357.40	12,834.3	3,814.6	-88.0	1.44	1.29	0.65	28.2	-14.2	
16,425.0	88.60	357.80	12,837.3	3,908.5	-82.0	0.95	0.85	0.43	31.5	-10.9	
16,518.0	90.60	358.80	12,837.9	4,001.4	-84.7	2.40	2.15	1.08	32.4	-8.7	
16,612.0	91.20	358.60	12,838.5	4,095.4	-88.9	0.87	0.64	-0.21	31.3	-7.2	
16,708.0	89.80	358.00	12,835.6	4,189.3	-99.6	1.62	-1.49	-0.64	30.8	-5.0	
16,800.0	90.50	1.20	12,835.4	4,283.3	-100.3	3.48	0.74	3.40	30.8	-4.9	
16,894.0	90.60	0.20	12,834.5	4,377.3	-99.2	1.07	0.11	-1.06	30.3	-6.7	
16,987.0	91.10	2.00	12,833.1	4,470.3	-87.4	2.01	0.54	1.84	29.2	-9.0	
17,081.0	88.50	1.90	12,833.4	4,564.2	-84.2	2.77	-2.77	-0.11	29.8	-12.8	
17,175.0	90.80	0.00	12,833.9	4,658.2	-82.6	3.26	2.55	-2.02	30.6	-15.0	
17,268.0	91.10	359.80	12,832.3	4,751.2	-82.6	0.30	0.22	-0.22	29.3	-15.4	



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Dauntless 7 Fed
 Well: #722H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #722H
 TVD Reference: KB = 25 @ 3499.0usft
 MD Reference: KB = 25 @ 3499.0usft
 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)
17,383.0	91.00	358.80	12,630.6	4,846.2	-93.9	1.06	-0.11	-1.05	27.9	-14.9
17,456.0	88.20	356.30	12,631.2	4,939.0	-97.9	4.04	-3.01	-2.69	28.8	-11.5
17,551.0	89.10	356.80	12,633.5	5,033.8	-103.6	1.08	0.95	0.53	31.4	-6.4
17,645.0	88.00	356.70	12,635.8	5,127.7	-109.0	1.18	-1.17	-0.11	34.1	-1.7
17,740.0	89.80	357.20	12,637.7	5,222.5	-114.0	1.87	1.89	0.53	36.2	2.8
17,833.0	91.00	357.60	12,637.0	5,315.4	-118.2	1.36	1.29	0.43	35.9	6.4
17,926.0	91.20	357.60	12,635.2	5,408.3	-122.1	0.22	0.22	0.00	34.2	9.7
18,019.0	92.80	357.50	12,631.9	5,501.2	-126.1	1.83	1.83	-0.11	30.7	13.1
18,112.0	92.30	359.50	12,627.7	5,594.0	-128.5	2.24	-0.65	2.15	28.3	14.9
18,205.0	90.00	358.30	12,625.8	5,687.0	-130.3	2.79	-2.47	-1.29	24.3	16.1
18,288.0	90.30	359.20	12,625.6	5,780.0	-132.3	1.02	0.32	0.87	23.9	17.6
18,392.0	86.50	3.00	12,628.2	5,873.9	-130.5	5.72	-4.04	4.04	26.4	15.1
18,465.0	86.10	3.80	12,634.2	5,966.5	-125.0	0.96	-0.43	0.86	32.2	9.0
18,578.0	87.20	0.80	12,639.6	6,059.3	-121.3	3.43	1.18	-3.23	37.5	4.8
18,672.0	88.20	0.80	12,643.4	6,153.2	-120.0	1.06	1.06	0.00	41.1	2.8
18,765.0	89.30	0.70	12,645.4	6,246.2	-118.8	1.19	1.18	-0.11	43.0	1.0
18,859.0	93.90	2.10	12,642.8	6,340.1	-116.5	5.11	4.89	1.49	40.2	-1.9
18,952.0	93.00	2.90	12,637.2	6,432.8	-112.4	1.29	-0.97	0.86	34.5	-6.5
19,046.0	88.90	0.80	12,635.7	6,526.7	-109.4	4.90	-4.36	-2.23	32.7	-10.1
19,138.0	89.30	1.70	12,637.1	6,618.7	-107.4	1.07	0.43	0.88	34.0	-12.7
19,232.0	89.70	359.50	12,637.9	6,712.7	-106.4	2.38	0.43	-2.34	34.7	-14.3
19,326.0	91.10	0.30	12,637.3	6,806.7	-106.6	1.72	1.49	0.85	33.9	-14.8
19,419.0	92.00	359.30	12,634.7	6,899.6	-106.9	1.45	0.97	-1.08	31.2	-15.0
19,512.0	89.80	358.80	12,633.3	6,992.6	-108.4	2.43	-2.37	-0.54	29.6	-14.1
19,606.0	91.70	0.20	12,632.1	7,086.6	-109.3	2.51	2.02	1.49	28.2	-13.9
19,700.0	90.00	357.20	12,630.7	7,180.5	-111.4	3.67	-1.81	-3.19	26.7	-12.3
19,793.0	88.60	358.50	12,631.8	7,273.4	-114.9	2.05	-1.51	1.40	27.7	-8.4



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #722H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3499.0usft
Site:	Dauntless 7 Fed	MD Reference:	KB = 25 @ 3499.0usft
Well:	#722H	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)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
18,887.0	87.60	355.70	12,634.9	7,367.3	-119.6	3.16	-1.06	-2.98	30.6	-5.3	
18,981.0	87.90	358.40	12,638.6	7,461.1	-124.5	2.89	0.32	2.87	34.1	-1.0	
20,075.0	90.70	359.60	12,639.8	7,555.0	-126.1	3.24	2.98	1.28	35.1	0.0	
20,168.0	89.10	0.00	12,638.9	7,648.0	-126.4	1.77	-1.72	0.43	35.1	-0.3	
20,262.0	89.00	0.40	12,641.5	7,742.0	-126.1	0.44	-0.11	0.43	36.6	-1.2	
20,285.0	90.20	0.10	12,641.6	7,765.0	-126.0	5.36	5.22	-1.30	36.7	-1.4	
20,378.0	91.00	1.20	12,640.7	7,858.0	-125.0	1.46	0.88	1.18	35.5	-3.1	
20,472.0	90.40	358.40	12,639.5	7,952.0	-125.3	3.05	-0.64	-2.98	34.2	-3.4	
20,566.0	91.60	357.70	12,637.9	8,045.9	-126.5	1.48	1.28	-0.74	32.4	-0.8	
20,660.0	89.80	358.20	12,638.6	8,139.8	-131.8	1.89	-1.81	0.53	31.1	2.0	
20,754.0	91.00	358.90	12,635.9	8,233.8	-134.2	1.39	1.17	0.74	30.2	3.8	
20,847.0	89.50	358.70	12,635.5	8,326.8	-136.2	1.63	-1.61	-0.22	29.6	5.1	
20,940.0	90.50	358.30	12,635.5	8,419.7	-138.6	1.16	1.08	-0.43	29.5	7.0	
21,034.0	91.80	358.90	12,633.6	8,513.7	-140.9	1.52	1.38	0.64	27.4	8.7	
21,127.0	89.00	358.80	12,633.0	8,606.7	-142.8	3.01	-3.01	-0.11	26.6	9.9	
21,220.0	90.50	359.70	12,633.4	8,699.7	-144.0	1.88	1.61	0.97	26.9	10.6	
21,313.0	91.00	359.80	12,632.2	8,792.6	-144.4	0.55	0.54	0.11	25.5	10.4	
21,406.0	90.30	358.90	12,631.1	8,885.6	-145.4	1.23	-0.75	-0.97	24.3	10.8	
21,499.0	92.70	359.30	12,628.7	8,978.6	-148.9	2.82	2.58	0.43	21.7	11.7	
21,592.0	89.80	358.50	12,626.6	9,071.5	-148.7	3.13	-3.01	-0.86	19.4	12.9	
21,686.0	86.70	358.20	12,629.3	9,165.4	-151.4	3.42	-3.40	-0.32	22.0	15.0	
21,779.0	86.80	358.50	12,634.5	9,258.3	-154.1	0.39	0.22	0.32	27.1	17.1	
21,872.0	87.80	359.00	12,638.6	9,351.1	-156.1	1.11	0.97	0.54	31.2	18.5	
21,965.0	86.70	359.60	12,641.7	9,444.1	-157.2	1.16	0.97	0.65	33.9	19.1	
22,058.0	89.50	2.00	12,643.1	9,537.0	-155.9	2.72	0.86	2.58	35.2	17.1	
22,151.0	89.80	0.00	12,643.6	9,630.0	-154.3	2.19	0.43	-2.15	35.6	14.9	
22,244.0	90.80	0.50	12,643.1	9,723.0	-153.9	1.11	0.97	0.54	34.8	13.9	



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Dauntless 7 Fed
Well: #722H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #722H
TVD Reference: KB = 25 @ 3499.0usft
MD Reference: KB = 25 @ 3499.0usft
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)	Build ("/100usft)	Turn ("/100usft)	High to Plan (usft)	Right to Plan (usft)	
22,338.0	91.60	1.30	12,641.1	9,817.0	-152.4	1.20	0.85	0.85	32.7	11.9	
22,431.0	92.20	1.30	12,638.0	9,909.9	-150.3	0.85	0.85	0.00	29.5	9.2	
22,526.0	92.80	2.10	12,633.9	10,004.8	-147.5	1.05	0.83	0.84	25.2	5.7	
22,619.0	93.30	2.10	12,628.9	10,097.6	-144.1	0.54	0.54	0.00	20.1	1.7	
22,672.0	94.20	2.70	12,625.4	10,150.4	-141.9	2.04	1.70	1.13	16.5	-0.8	
22,719.0	94.20	2.70	12,622.0	10,197.2	-139.7	0.00	0.00	0.00	13.0	-3.3	

Design Annotations

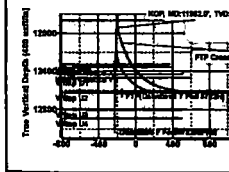
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
11,952.0	11,938.9	-183.2	-128.6	KOP, MD:11952.0', TVD:11938.9', N/S:-193.2', E/W:-128.6', INC:5.24
12,121.9	12,102.4	-150.0	-117.9	FTP Crossing, MD:12121.9', TVD:12102.4', N/S:-150.0', E/W:-117.9', INC:18.30
22,672.0	12,625.4	10,150.4	-141.9	Last MWD Survey (MD=22672.0')
22,719.0	12,622.0	10,197.2	-139.7	Projection to Bit (MD=22719.0')

Checked By: _____ Approved By: _____ Date: _____

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

Signed Kay Maddox

11/12/2019
Date



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