

HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dauntless 7 Fed

#726H

OH

Design: OH

Midland PVA

25 June, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #726H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22 @ 3506.0usft
Site:	Dauntless 7 Fed	MD Reference:	KB = 22 @ 3506.0usft
Well:	#726H	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	#726H		
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	8/17/2018	6.84
			Dip Angle
			59.96
			Field Strength
			47,783.15963284

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
			357.95

Survey Program	Date 6/25/2019		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
242.0	22,814.0	Newsco MWD (OH)	MWD
			Description
			OWSG MWD - Standard



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Well:	#726H	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)	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	0.0
242.0	1.40	321.80	242.0	2.3	-1.8	0.58	0.58	0.00	-3.0	0.0	
425.0	1.40	323.00	424.9	5.9	-4.6	0.02	0.00	0.66	-7.4	0.1	
608.0	1.30	322.20	607.9	9.3	-7.2	0.08	-0.05	-0.44	-11.7	0.0	
708.0	1.30	323.10	707.8	11.1	-8.6	0.02	0.00	0.90	-14.0	0.2	
897.0	1.10	317.10	896.8	14.1	-11.1	0.12	-0.11	-3.17	-17.9	-1.5	
1,085.0	1.10	320.90	1,084.8	16.9	-13.4	0.04	0.00	2.02	-21.6	-0.2	
1,256.0	1.30	317.30	1,255.7	19.6	-15.6	0.12	0.12	-2.11	-25.1	-1.7	
1,446.0	1.40	315.50	1,445.7	22.8	-18.9	0.06	0.05	-0.95	-29.5	-2.5	
1,634.0	2.20	244.50	1,633.6	22.9	-23.7	1.16	0.43	-37.77	-11.6	-30.9	
1,823.0	2.80	244.40	1,822.4	19.3	-31.2	0.32	0.32	-0.05	-19.8	-30.9	
2,012.0	5.50	243.40	2,010.9	13.3	-43.4	1.43	1.43	-0.53	-32.8	-31.4	
2,201.0	7.10	245.30	2,198.8	4.3	-62.2	0.85	0.85	1.01	-47.7	-31.1	
2,390.0	6.70	220.50	2,386.4	-8.9	-79.9	1.58	-0.21	-13.12	-34.6	-48.3	
2,579.0	6.20	223.00	2,574.2	-24.8	-84.1	0.30	-0.26	1.32	-38.6	-41.9	
2,768.0	5.40	224.10	2,762.3	-38.6	-107.2	0.43	-0.42	0.58	-39.1	-36.9	
2,957.0	4.60	226.90	2,950.5	-50.2	-118.9	0.44	-0.42	1.48	-37.8	-31.4	
3,146.0	3.30	224.90	3,139.1	-59.2	-128.3	0.69	-0.69	-1.06	-30.3	-29.3	
3,335.0	5.20	239.70	3,327.6	-67.4	-139.5	1.15	1.01	7.83	-30.8	-20.5	
3,524.0	5.80	246.90	3,515.7	-75.5	-155.7	0.48	0.32	3.81	-31.8	-19.2	
3,713.0	6.90	233.00	3,703.6	-86.0	-173.6	1.00	0.58	-7.35	-27.2	-27.5	
3,902.0	3.80	225.00	3,891.7	-67.3	-187.1	1.68	-1.64	-4.23	-21.2	-28.9	
4,091.0	3.30	229.80	4,080.3	-105.3	-195.7	0.31	-0.26	2.54	-15.5	-24.4	
4,280.0	2.20	205.40	4,269.1	-112.0	-201.4	0.84	-0.58	-12.91	4.4	-20.9	
4,469.0	2.80	156.90	4,458.0	-119.6	-201.1	1.12	0.32	-25.68	15.4	6.1	
4,657.0	6.30	152.90	4,645.4	-133.0	-194.6	1.87	1.86	-2.13	2.7	26.3	
4,846.0	6.10	177.50	4,833.3	-152.2	-189.4	1.40	-0.11	13.02	4.3	44.0	



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

MD (usft)	Inc (")	Asd (azimuth) (")	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Buid (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,941.0	5.70	215.10	4,927.8	-161.1	-191.9	4.02	-0.42	39.58	30.7	39.0
5,036.0	6.20	236.10	5,022.3	-167.9	-188.9	2.34	0.53	22.11	43.0	27.2
5,131.0	4.90	246.50	5,116.9	-172.3	-208.9	1.72	-1.37	10.95	47.8	18.1
5,226.0	4.90	272.80	5,211.5	-173.8	-214.7	2.34	0.00	27.88	51.2	-9.0
5,320.0	3.50	287.60	5,305.3	-172.2	-221.2	2.41	-1.49	26.38	40.9	-36.5
5,415.0	2.80	310.00	5,400.1	-189.4	-225.6	1.02	-0.74	13.05	29.7	-53.4
5,604.0	3.10	309.10	5,588.9	-163.2	-233.1	0.16	0.16	-0.48	25.1	-67.8
5,794.0	3.20	310.80	5,778.6	-156.5	-241.1	0.07	0.05	0.79	13.6	-71.6
5,889.0	0.70	272.20	5,873.5	-154.8	-243.7	2.83	-2.63	-40.42	52.5	-49.3
5,984.0	0.80	202.50	5,968.5	-155.4	-244.5	0.91	0.11	-73.37	63.6	31.6
6,078.0	0.90	215.60	6,062.5	-156.6	-245.2	0.23	0.11	13.94	67.7	16.5
6,173.0	0.90	219.50	6,157.5	-157.8	-246.1	0.08	0.00	4.11	67.2	11.9
6,362.0	1.00	210.40	6,346.5	-160.3	-247.9	0.10	0.05	-4.81	61.3	22.1
6,552.0	1.00	202.20	6,536.5	-163.3	-249.3	0.08	0.00	-4.32	54.2	30.4
6,741.0	1.00	205.00	6,725.4	-166.3	-250.7	0.03	0.00	1.48	52.3	27.8
6,930.0	1.20	211.30	6,914.4	-169.5	-252.4	0.12	0.11	3.33	51.5	22.1
7,119.0	1.30	215.60	7,103.3	-172.9	-254.7	0.07	0.05	2.28	48.9	18.3
7,309.0	1.60	216.50	7,293.3	-176.8	-257.5	0.16	0.16	0.47	44.3	17.6
7,497.0	1.30	221.80	7,481.2	-180.5	-260.5	0.17	-0.16	2.82	41.0	13.7
7,687.0	1.40	219.60	7,671.2	-183.9	-263.4	0.06	0.05	-1.16	36.0	15.1
7,875.0	1.30	214.30	7,859.1	-187.4	-266.1	0.09	-0.05	-2.82	30.0	18.2
8,064.0	0.90	198.20	8,048.1	-190.6	-267.7	0.27	-0.21	-8.52	20.3	25.2
8,254.0	1.40	205.40	8,238.0	-194.1	-269.2	0.27	0.26	3.79	19.5	22.7
8,443.0	1.50	194.40	8,427.0	-198.6	-270.8	0.16	0.05	-5.82	10.0	25.5
8,631.0	1.70	191.00	8,614.9	-203.7	-271.9	0.12	0.11	-1.81	3.3	25.9
8,821.0	1.70	197.40	8,804.8	-209.2	-273.3	0.10	0.00	3.37	0.5	25.7
9,010.0	2.20	214.00	8,993.7	-214.9	-276.2	0.40	0.26	8.78	1.5	25.3



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 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)	DLag (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,199.0	2.10	228.60	9,182.6	-220.2	-280.8	0.29	-0.05	7.72	0.9	25.0
9,388.0	2.60	299.20	9,371.5	-220.4	-287.2	1.45	0.26	37.35	18.4	10.8
9,578.0	3.00	294.30	9,561.2	-218.2	-295.4	0.25	0.21	-2.58	8.2	11.9
9,766.0	1.90	291.90	9,749.1	-213.0	-302.8	0.59	-0.59	-1.28	-0.4	12.0
9,955.0	1.70	305.70	9,938.0	-210.2	-308.0	0.25	-0.11	7.30	-3.3	12.5
10,144.0	1.60	301.30	10,128.9	-207.2	-312.5	0.08	-0.05	-2.33	-8.7	12.0
10,333.0	1.50	283.80	10,315.8	-205.3	-317.2	0.25	-0.05	-9.26	-17.9	7.8
10,523.0	1.80	286.20	10,505.7	-203.8	-322.5	0.16	0.16	1.26	-23.0	8.6
10,711.0	1.60	293.40	10,693.7	-202.0	-327.7	0.16	-0.11	3.83	-27.3	11.8
10,901.0	1.00	248.00	10,883.6	-201.5	-331.7	0.60	-0.32	-23.89	-31.1	-13.0
11,090.0	0.50	227.80	11,072.6	-202.7	-333.8	0.30	-0.26	-10.69	-27.0	-23.5
11,279.0	2.40	267.00	11,261.5	-203.5	-338.4	1.08	1.01	20.74	-40.4	-0.8
11,468.0	2.80	281.00	11,450.3	-202.8	-346.9	0.40	0.21	7.41	-47.8	10.1
11,658.0	2.70	308.40	11,640.1	-199.1	-354.9	0.69	-0.05	14.42	-46.4	33.2
11,778.0	2.60	320.60	11,760.0	-195.3	-358.9	0.48	-0.08	10.17	-43.8	42.8
11,874.0	3.40	358.80	11,855.9	-190.7	-360.3	2.18	0.83	39.58	-12.7	62.0
11,989.0	3.30	6.00	11,950.7	-185.2	-360.1	0.47	-0.11	7.79	-10.2	63.5
12,084.0	2.00	351.00	12,045.6	-180.9	-360.1	1.54	-1.37	-15.79	-30.6	58.0
12,159.0	5.80	11.60	12,140.4	-174.7	-359.4	3.99	3.79	21.68	-14.4	65.7
12,222.0	8.40	14.30	12,202.9	-167.2	-357.7	4.47	4.44	4.28	-14.4	65.1
12,253.0	9.70	13.60	12,233.5	-162.5	-356.5	4.21	4.19	-2.26	-14.6	63.5
12,300.0	13.10	8.90	12,279.6	-153.4	-354.7	7.49	7.23	-10.00	-16.5	59.8
12,348.0	20.60	10.30	12,325.5	-139.7	-352.4	15.65	15.62	2.92	-12.0	56.9
12,442.0	38.60	12.30	12,406.9	-94.4	-343.1	19.18	19.15	2.13	-11.7	47.1
12,537.0	52.80	11.80	12,473.1	-28.0	-329.1	14.98	14.95	-0.74	-20.4	32.8
12,631.0	60.40	7.70	12,524.8	49.3	-316.1	8.79	8.09	-4.15	-27.0	18.3
12,726.0	68.10	1.20	12,566.1	134.5	-309.6	10.18	8.11	-8.84	-25.3	9.7



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 Wellbore: OH
 Design: OH

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Survey											
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12,820.0	88.10	358.50	12,587.0	225.7	-311.8	19.75	19.15	-5.00	-24.3	10.7	
12,914.0	88.50	359.20	12,593.1	319.4	-315.1	2.90	0.43	2.87	-20.8	13.8	
13,007.0	84.30	0.30	12,600.5	412.1	-315.5	2.84	-2.37	1.18	-13.2	13.6	
13,102.0	82.70	0.90	12,611.3	506.5	-314.5	1.80	-1.68	0.83	-2.2	12.0	
13,196.0	88.20	3.70	12,618.7	600.1	-310.7	6.58	5.85	2.98	5.4	7.8	
13,290.0	88.70	5.80	12,622.9	693.7	-303.0	2.74	-1.60	2.23	9.7	-0.8	
13,385.0	87.00	1.20	12,628.1	788.3	-297.2	4.85	0.32	-4.84	15.1	-7.2	
13,480.0	88.60	358.20	12,631.8	883.2	-297.7	3.58	1.68	-3.18	18.9	-7.3	
13,574.0	90.20	355.50	12,632.8	977.1	-302.8	3.34	1.70	-2.87	20.1	-2.7	
13,669.0	88.60	359.20	12,633.8	1,071.9	-307.2	4.24	-1.68	3.89	21.2	1.0	
13,763.0	92.60	356.40	12,632.8	1,165.8	-310.8	5.19	4.26	-2.98	20.4	4.0	
13,858.0	93.10	358.20	12,628.1	1,260.6	-315.3	1.86	0.53	1.89	15.9	7.9	
13,953.0	90.30	356.70	12,625.2	1,355.5	-319.5	3.34	-2.95	-1.58	13.2	11.5	
14,047.0	90.60	5.00	12,624.5	1,449.4	-318.1	6.84	0.32	8.83	12.7	9.5	
14,094.0	90.60	13.90	12,624.0	1,495.7	-310.4	18.94	0.00	18.94	12.2	1.5	
14,176.0	89.60	17.70	12,623.9	1,574.6	-288.1	4.79	-1.22	4.83	12.7	-21.1	
14,237.0	88.30	13.00	12,625.0	1,633.4	-272.0	7.99	-2.13	-7.70	13.5	-37.8	
14,297.0	88.80	9.10	12,626.4	1,692.2	-260.5	6.57	1.00	-6.50	15.1	-49.7	
14,426.0	88.10	359.40	12,629.8	1,820.7	-250.9	7.54	-0.82	-7.52	18.6	-60.1	
14,520.0	85.30	355.40	12,635.2	1,914.4	-255.2	5.19	-2.98	-4.26	24.5	-58.3	
14,614.0	88.10	354.60	12,640.7	2,007.9	-263.4	3.10	2.98	-0.85	30.0	-48.8	
14,708.0	87.00	356.20	12,644.7	2,101.5	-270.9	2.06	-1.17	1.70	34.1	-41.9	
14,803.0	89.40	352.40	12,647.7	2,195.9	-280.3	4.73	2.53	-4.00	37.3	-33.0	
14,897.0	89.30	353.80	12,648.7	2,289.2	-281.6	1.49	-0.11	1.49	38.4	-22.3	
14,992.0	90.10	356.90	12,649.2	2,383.9	-299.3	3.37	0.84	3.26	39.1	-15.3	
15,086.0	94.80	356.80	12,645.2	2,477.7	-304.5	5.00	5.00	-0.11	35.2	-10.8	
15,180.0	94.10	355.80	12,637.9	2,571.2	-310.5	1.30	-0.74	-1.06	28.1	-5.4	



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15,275.0	89.00	358.50	12,635.3	2,685.9	-316.9	5.42	-5.37	0.74	25.7	0.4
15,369.0	91.30	359.10	12,635.1	2,759.8	-320.5	3.69	2.45	2.77	25.6	3.4
15,463.0	92.20	359.50	12,632.2	2,853.8	-321.7	1.05	0.96	0.43	22.9	4.0
15,558.0	93.00	359.60	12,627.9	2,948.7	-322.4	0.85	0.84	0.11	18.8	4.1
15,651.0	92.00	1.10	12,623.9	3,041.6	-321.8	1.94	-1.08	1.81	14.9	2.9
15,746.0	91.30	1.40	12,621.1	3,136.5	-319.8	0.80	-0.74	0.32	12.3	0.3
15,840.0	86.60	0.80	12,622.8	3,230.4	-318.0	5.04	-5.00	-0.64	14.2	-2.2
15,934.0	87.20	1.50	12,627.9	3,324.3	-316.1	0.98	0.64	0.74	19.4	-4.6
16,029.0	88.00	1.90	12,631.9	3,419.2	-313.3	0.94	0.84	0.42	23.6	-8.1
16,123.0	90.20	5.80	12,633.4	3,512.9	-308.9	4.76	2.34	4.15	25.3	-14.9
16,218.0	89.20	358.80	12,633.9	3,607.8	-303.1	7.44	-1.05	-7.37	25.9	-19.4
16,313.0	91.20	358.30	12,633.6	3,702.7	-305.5	2.17	2.11	-0.53	25.7	-17.6
16,407.0	92.50	357.60	12,630.5	3,796.6	-308.9	1.57	1.38	-0.74	22.9	-14.9
16,501.0	91.00	358.70	12,627.6	3,890.5	-311.9	1.98	-1.60	1.17	20.2	-12.4
16,596.0	87.90	358.70	12,628.6	3,985.5	-314.1	3.28	-3.26	0.00	21.3	-10.9
16,691.0	87.60	359.30	12,632.3	4,080.4	-315.7	0.71	-0.32	0.63	25.2	-9.9
16,786.0	88.60	359.30	12,635.4	4,175.3	-316.9	1.05	1.05	0.00	28.5	-9.3
16,880.0	90.30	2.80	12,636.3	4,269.3	-315.2	4.14	1.81	3.72	29.6	-11.6
16,975.0	90.30	1.60	12,635.8	4,364.2	-311.5	1.26	0.00	-1.26	29.2	-15.9
17,070.0	87.00	356.90	12,638.1	4,459.2	-312.8	6.04	-3.47	-4.95	31.6	-15.2
17,165.0	87.00	357.80	12,643.1	4,553.9	-317.2	0.85	0.00	0.85	36.8	-11.5
17,258.0	87.80	357.40	12,647.3	4,648.7	-321.1	0.96	0.66	-0.43	41.2	-8.2
17,353.0	87.80	358.00	12,650.9	4,741.6	-324.9	0.63	0.00	0.63	44.9	-5.0
17,448.0	87.70	357.80	12,654.6	4,836.5	-328.3	0.24	-0.11	-0.21	48.4	-2.1
17,542.0	90.00	359.00	12,656.5	4,930.4	-331.0	2.76	2.45	1.28	50.1	-0.1
17,636.0	89.10	358.60	12,657.3	5,024.4	-332.9	1.05	-0.98	-0.43	50.6	1.3
17,731.0	91.40	357.70	12,656.9	5,119.3	-336.0	2.60	2.42	-0.95	50.0	3.7



Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Dauntless 7 Fed
 Well: #726H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #726H
 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	91.00	356.80	12,654.9	5,213.2	-340.5	1.05	-0.43	-0.96	47.8	7.6	
17,821.0	89.80	357.00	12,654.2	5,309.0	-345.7	1.27	-1.25	0.21	47.0	12.2	
18,015.0	90.20	357.50	12,654.2	5,402.9	-350.2	0.68	0.43	0.53	46.8	16.1	
18,110.0	92.20	0.30	12,652.2	5,497.9	-352.0	3.62	2.11	2.95	44.6	17.3	
18,205.0	89.30	359.60	12,651.0	5,592.9	-352.1	3.14	-3.05	-0.74	43.1	16.8	
18,299.0	92.20	3.30	12,649.8	5,688.8	-349.7	5.00	3.08	3.94	41.7	13.8	
18,394.0	93.00	3.60	12,645.4	5,781.5	-344.0	0.80	0.84	0.32	37.2	7.5	
18,489.0	88.50	4.20	12,644.2	5,876.3	-337.6	4.78	-4.74	0.63	35.7	0.4	
18,583.0	87.70	4.40	12,647.3	5,970.0	-330.5	0.88	-0.85	0.21	38.7	-7.2	
18,678.0	88.90	359.60	12,650.1	6,064.8	-327.2	5.21	1.26	-5.05	41.3	-11.2	
18,772.0	86.90	357.20	12,653.6	6,158.7	-329.8	3.32	-2.13	-2.55	44.5	-9.1	
18,866.0	87.40	358.20	12,658.3	6,252.5	-333.6	1.19	0.53	1.06	49.0	-6.0	
18,961.0	89.00	358.20	12,661.2	6,347.4	-336.6	1.68	1.68	0.00	51.8	-3.6	
19,056.0	89.70	359.60	12,662.3	6,442.4	-338.4	1.65	0.74	1.47	52.7	-2.4	
19,151.0	90.00	359.80	12,662.6	6,537.4	-338.9	0.38	0.32	0.21	52.7	-2.5	
19,246.0	90.00	0.80	12,662.6	6,632.4	-338.3	1.16	0.00	1.16	52.5	-3.7	
19,340.0	89.40	0.50	12,663.1	6,726.4	-337.2	0.77	-0.64	-0.43	52.6	-5.5	
19,435.0	94.50	359.60	12,659.8	6,821.3	-337.1	5.45	5.37	-0.95	49.4	-6.2	
19,530.0	96.00	359.90	12,651.1	6,915.9	-337.5	1.61	1.58	0.32	40.5	-6.4	
19,625.0	91.40	358.20	12,645.0	7,010.7	-339.1	5.16	-4.84	-1.79	34.1	-5.4	
19,719.0	91.80	357.90	12,642.4	7,104.6	-342.3	0.53	0.43	-0.32	31.3	-2.8	
19,814.0	91.30	359.00	12,639.8	7,199.5	-344.8	1.27	-0.53	1.16	28.5	-0.8	
19,909.0	92.00	359.40	12,637.1	7,294.4	-346.2	0.85	0.74	0.42	25.6	-0.1	
20,004.0	88.10	358.70	12,637.0	7,389.4	-347.7	4.17	-4.11	-0.74	25.3	0.8	
20,098.0	88.30	359.00	12,639.9	7,483.3	-349.6	0.38	0.21	0.32	28.1	2.1	
20,193.0	88.20	359.00	12,642.8	7,578.3	-351.3	0.11	-0.11	0.00	30.8	3.2	
20,287.0	91.70	1.00	12,642.8	7,672.3	-351.3	4.29	3.72	2.13	30.7	2.6	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #726H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22 @ 3506.0usft
Site:	Dauntless 7 Fed	MD Reference:	KB = 22 @ 3506.0usft
Well:	#726H	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)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
20,382.0	93.30	1.60	12,638.8	7,767.1	-349.1	1.80	1.68	0.63	26.3	-0.2	
20,476.0	92.00	2.50	12,634.4	7,861.0	-345.8	1.68	-1.38	0.96	21.8	-4.2	
20,571.0	88.70	2.30	12,633.9	7,955.9	-341.8	3.48	-3.47	-0.21	21.0	-8.8	
20,665.0	87.50	2.40	12,637.0	8,049.8	-337.9	1.28	-1.28	0.11	23.9	-13.2	
20,760.0	89.10	3.00	12,639.8	8,144.6	-333.5	1.80	1.68	0.63	26.5	-18.3	
20,855.0	88.20	358.70	12,642.0	8,239.5	-332.1	4.82	-0.95	-4.53	28.6	-20.3	
20,950.0	90.10	0.50	12,643.4	8,334.5	-332.7	2.75	2.00	1.89	29.8	-20.3	
21,044.0	88.70	358.50	12,644.4	8,428.5	-333.5	2.60	-1.49	-2.13	30.6	-20.0	
21,138.0	89.40	359.30	12,646.0	8,522.5	-335.4	1.13	0.74	0.85	31.9	-18.9	
21,233.0	90.60	359.80	12,646.0	8,617.5	-336.0	1.41	1.28	0.83	31.5	-18.8	
21,328.0	92.00	0.70	12,643.8	8,712.4	-335.5	1.70	1.47	0.84	29.0	-19.8	
21,423.0	93.20	1.30	12,639.5	8,807.3	-333.9	1.41	1.26	0.63	24.4	-22.2	
21,518.0	90.60	0.40	12,636.4	8,902.3	-332.5	2.90	-2.74	-0.95	20.9	-24.2	
21,613.0	90.60	0.40	12,635.4	8,997.2	-331.8	0.00	0.00	0.00	19.8	-25.5	
21,708.0	92.70	359.80	12,632.8	9,092.2	-331.6	2.30	2.21	-0.63	16.5	-26.3	
21,802.0	91.60	359.20	12,629.1	9,186.1	-332.4	1.33	-1.17	-0.84	12.7	-26.0	
21,897.0	91.90	358.60	12,626.2	9,281.1	-334.1	0.53	0.32	-0.42	9.4	-25.0	
21,992.0	91.60	358.10	12,623.3	9,376.0	-336.7	0.80	-0.32	-0.74	6.2	-23.0	
22,112.0	89.40	359.30	12,622.3	9,465.8	-339.4	2.09	-1.63	1.00	4.7	-21.1	
22,207.0	89.90	358.80	12,622.8	9,590.9	-341.0	0.74	0.53	-0.53	5.0	-20.1	
22,301.0	92.00	358.60	12,621.3	9,684.9	-343.1	2.24	2.23	-0.21	3.1	-18.6	
22,395.0	94.00	357.70	12,616.4	9,778.7	-346.1	2.33	2.13	-0.96	-2.2	-16.2	
22,489.0	95.00	357.50	12,609.0	9,872.3	-350.1	1.08	1.08	-0.21	-8.9	-12.8	
22,583.0	97.20	357.20	12,599.0	9,965.7	-354.4	2.36	2.34	-0.32	-20.2	-9.2	
22,677.0	99.40	357.10	12,585.4	10,058.6	-359.0	2.34	2.34	-0.11	-34.1	-5.2	
22,759.0	99.40	357.10	12,572.0	10,139.4	-363.1	0.00	0.00	0.00	-47.7	-1.6	
22,814.0	99.40	357.10	12,563.1	10,183.6	-365.8	0.00	0.00	0.00	-56.9	0.8	



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Dauntless 7 Fed
Well: #726H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #726H
TVD Reference: KB = 22 @ 3506.0usft
MD Reference: KB = 22 @ 3506.0usft
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)	
12,060.0	12,041.6	-161.0	-360.1	KOP, MD:12060.0', TVD:12041.6', N/S:-161.0', E/W:-360.1', INC:2.05
12,305.9	12,285.3	-152.0	-354.5	FTP Crossing, MD:12305.9', TVD:12285.3', N/S:-152.0', E/W:-354.5', INC:14.02
22,759.0	12,572.0	10,139.4	-363.1	Last MWD Survey (MD=22759.0')
22,814.0	12,563.1	10,163.6	-365.6	Projection to Bit (MD=22814.0')

Checked By: _____ Approved By: _____ Date: _____

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

Kay Maddox
Signed

11/12/2019
Date



Lea County, NM (NAD 83 NME)

Dauntless 7 Fed #726H

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: #726H

KB = 22 @ 3508.0'rust
Northing 414634.00 Easting 785783.00
Latitude 32° 0' 15.764 N Longitude 103° 39' 25.768 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dlog	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2000.0	0.00	0.00	2000.0	0.0	0.0	0.00	0.00	0.0	
3	2300.1	6.00	235.87	2289.5	-8.8	-13.0	2.00	235.87	-8.3	
4	5443.3	6.00	235.87	5425.3	-183.2	-285.0	0.00	0.00	-182.9	
5	5743.3	0.00	0.00	5725.0	-202.0	-298.0	2.00	180.00	-191.2	
6	12154.8	0.00	0.00	12136.5	-202.0	-298.0	0.00	0.00	-191.2	
7	12905.7	90.10	359.63	12814.0	276.3	-301.1	12.00	359.63	286.9	
8	17334.7	90.10	359.63	12806.0	4705.2	-329.8	0.00	0.00	4714.0	TGT#1(DL 7 Fed #726H)
9	17345.9	89.88	359.63	12806.0	4716.4	-329.7	2.00	180.00	4725.2	
10	21115.4	89.88	359.63	12814.0	8485.8	-354.0	0.00	0.00	8493.0	TGT#2(DL 7 Fed #726H)
11	21118.3	89.80	359.63	12814.0	8489.8	-354.0	2.00	-180.00	8497.0	
12	22827.6	89.80	359.63	12820.0	10198.0	-365.0	0.00	0.00	10204.5	PBHL(DL 7 Fed #726H)

CASING DETAILS

No casing data is available

WELLSBORE VARIETY DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(DL 7 Fed #726H)	7882.0	-202.0	-288.0	414692.00	785468.00
TOTPH(DL 7 Fed #726H)	12606.0	4705.2	-329.8	418598.20	785433.30
PTBL(DL 7 Fed #726H)	12814.0	-182.0	-288.0	414742.00	785465.00
TOTBL(DL 7 Fed #726H)	12814.0	8485.8	-354.0	423378.00	785409.00
PBHL(DL 7 Fed #726H)	12820.0	10198.0	-365.0	425942.00	785398.00

