

HOBBS OCD
MAR 12 2019
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Jolly Roger 16 State

#705H

OH

Design: OH

Midland PVA

28 January, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3561.0usft
Site:	Jolly Roger 16 State	MD Reference:	KB = 25 @ 3561.0usft
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	Jolly Roger 16 State		
Site Position:		Northing:	445,511.00 usft
From:	Map	Easting:	804,489.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 13' 18.918 N
		Longitude:	103° 28' 56.577 W
		Grid Convergence:	0.45 °

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° 12' 43.205 N
		Longitude:	103° 28' 53.546 W
		Ground Level:	3,536.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	11/27/2018	6.75
			Dip Angle (°)
			60.05
			Field Strength (nT)
			47,780.79895757

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)
	0.0	0.0	0.0
			Direction (°)
			356.26

Survey Program	Date 1/28/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
244.0	17,055.0	Newco MWD (OH)	MWD
			Description
			OWSG MWD - Standard



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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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
244.0	0.20	198.30	244.0	-0.4	-0.1	0.08	0.08	0.00	0.0	0.0	0.0
426.0	0.30	180.60	426.0	-1.2	-0.2	0.07	0.05	-9.73	0.0	0.0	0.0
610.0	0.10	244.80	610.0	-1.7	-0.4	0.15	-0.11	34.89	0.0	0.0	0.0
800.0	0.20	168.50	800.0	-2.1	-0.5	0.11	0.05	-40.16	0.0	0.0	0.0
988.0	0.10	206.00	988.0	-2.6	-0.5	0.07	-0.05	19.95	0.0	0.0	0.0
1,175.0	0.30	254.40	1,175.0	-2.9	-1.0	0.13	0.11	25.88	0.0	0.0	0.0
1,288.0	0.10	150.50	1,288.0	-3.0	-1.3	0.30	-0.18	-91.95	0.0	0.0	0.0
1,445.0	0.50	294.50	1,445.0	-2.9	-1.8	0.37	0.25	91.72	0.0	0.0	0.0
1,633.0	4.70	230.40	1,632.8	-7.4	-8.5	2.40	2.23	-34.10	0.0	0.0	0.0
1,819.0	4.60	238.20	1,818.2	-16.2	-20.7	0.34	-0.05	4.19	0.0	0.0	0.0
2,007.0	4.40	202.60	2,005.6	-26.9	-29.9	1.47	-0.11	-18.94	0.0	0.0	0.0
2,194.0	3.80	208.10	2,192.1	-39.0	-35.6	0.38	-0.32	2.94	0.0	0.0	0.0
2,381.0	1.80	189.30	2,378.9	-47.3	-39.0	1.16	-1.07	-10.05	0.0	0.0	0.0
2,568.0	5.60	202.20	2,565.5	-58.7	-42.9	2.07	2.03	6.90	0.0	0.0	0.0
2,755.0	4.20	209.80	2,751.8	-73.1	-49.7	0.82	-0.75	4.06	0.0	0.0	0.0
2,942.0	3.20	198.00	2,938.4	-84.0	-54.7	0.67	-0.53	-6.31	0.0	0.0	0.0
3,129.0	2.80	194.20	3,125.2	-93.4	-57.5	0.24	-0.21	-2.03	0.0	0.0	0.0
3,316.0	3.80	196.10	3,311.8	-103.7	-60.3	0.54	0.53	1.02	0.0	0.0	0.0
3,504.0	3.20	194.90	3,499.5	-114.8	-63.4	0.32	-0.32	-0.64	0.0	0.0	0.0
3,692.0	3.60	197.30	3,687.2	-125.5	-66.5	0.23	0.21	1.28	0.0	0.0	0.0
3,879.0	2.10	192.60	3,873.9	-134.5	-69.0	0.81	-0.80	-2.51	0.0	0.0	0.0
4,067.0	3.90	204.00	4,061.7	-143.7	-72.3	1.00	0.96	6.06	0.0	0.0	0.0
4,253.0	2.80	182.90	4,247.3	-154.0	-75.2	0.88	-0.59	-11.34	0.0	0.0	0.0
4,441.0	4.30	170.90	4,435.0	-165.5	-74.3	0.89	0.80	-6.38	0.0	0.0	0.0
4,628.0	6.60	153.40	4,621.1	-182.1	-68.3	1.50	1.23	-9.36	0.0	0.0	0.0
4,815.0	6.30	168.10	4,807.0	-201.7	-61.4	0.89	-0.16	7.86	0.0	0.0	0.0



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

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5,002.0	6.00	193.20	4,992.9	-221.3	-61.5	1.44	-0.16	13.42	0.0	0.0	
5,190.0	6.10	214.50	5,179.9	-239.1	-69.4	1.19	0.05	11.33	0.0	0.0	
5,378.0	4.80	219.60	5,367.0	-253.4	-80.1	0.74	-0.69	2.71	0.0	0.0	
5,565.0	9.50	224.00	5,552.5	-270.5	-95.8	2.53	2.51	2.35	0.0	0.0	
5,753.0	14.00	203.10	5,736.6	-302.6	-115.5	3.26	2.39	-11.12	0.0	0.0	
5,941.0	11.20	209.50	5,920.1	-339.4	-133.5	1.66	-1.49	3.40	0.0	0.0	
6,128.0	10.40	207.00	6,103.8	-370.3	-150.1	0.50	-0.43	-1.34	0.0	0.0	
6,315.0	9.60	204.40	6,287.9	-399.5	-164.2	0.49	-0.43	-1.39	0.0	0.0	
6,503.0	9.10	203.20	6,473.4	-427.4	-176.5	0.29	-0.27	-0.64	0.0	0.0	
6,690.0	10.50	209.10	6,657.7	-455.9	-190.8	0.92	0.75	3.16	0.0	0.0	
6,877.0	10.30	207.90	6,841.6	-485.6	-206.7	0.16	-0.11	-0.64	0.0	0.0	
7,064.0	9.30	208.80	7,025.9	-513.6	-221.8	0.54	-0.53	0.48	0.0	0.0	
7,252.0	6.00	206.90	7,212.2	-535.7	-233.6	1.76	-1.76	-1.01	0.0	0.0	
7,440.0	3.80	203.30	7,399.5	-550.2	-240.5	1.18	-1.17	-1.91	0.0	0.0	
7,628.0	1.40	191.80	7,587.3	-558.1	-243.4	1.30	-1.28	-6.12	0.0	0.0	
7,815.0	0.90	253.30	7,774.3	-580.8	-245.3	0.67	-0.27	32.89	0.0	0.0	
8,002.0	1.00	265.50	7,961.3	-561.4	-248.3	0.12	0.05	6.52	0.0	0.0	
8,190.0	0.80	242.10	8,149.2	-562.1	-251.1	0.22	-0.11	-12.45	0.0	0.0	
8,378.0	0.80	226.10	8,337.2	-563.6	-253.2	0.12	0.00	-8.51	0.0	0.0	
8,565.0	0.80	210.40	8,524.2	-565.7	-254.9	0.12	0.00	-8.40	0.0	0.0	
8,752.0	0.60	230.40	8,711.2	-567.4	-256.3	0.17	-0.11	10.70	0.0	0.0	
8,941.0	0.60	221.90	8,900.2	-568.8	-257.7	0.05	0.00	-4.50	0.0	0.0	
9,128.0	0.30	164.50	9,087.2	-570.0	-258.2	0.27	-0.16	-30.70	0.0	0.0	
9,315.0	0.50	90.90	9,274.2	-570.5	-257.3	0.27	0.11	-39.36	0.0	0.0	
9,503.0	0.90	35.20	9,462.1	-569.3	-255.6	0.40	0.21	-29.63	0.0	0.0	
9,691.0	0.60	271.90	9,650.1	-568.0	-255.7	0.71	-0.16	-65.59	0.0	0.0	
9,878.0	1.10	275.40	9,837.1	-567.8	-258.5	0.27	0.27	1.87	0.0	0.0	



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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10,065.0	1.50	281.60	10,024.1	-567.2	-262.7	0.23	0.21	3.32	0.0	0.0	
10,252.0	1.60	278.00	10,211.0	-566.3	-267.7	0.07	0.05	-1.93	0.0	0.0	
10,441.0	1.50	295.60	10,399.9	-564.9	-272.5	0.26	-0.05	9.31	0.0	0.0	
10,628.0	2.80	272.80	10,586.8	-563.6	-279.3	0.82	0.70	-12.19	0.0	0.0	
10,815.0	2.30	146.10	10,773.7	-566.5	-281.7	2.44	-0.27	-67.75	0.0	0.0	
11,003.0	2.30	132.80	10,961.6	-572.2	-276.9	0.28	0.00	-7.07	0.0	0.0	
11,190.0	1.30	44.70	11,148.5	-573.2	-272.6	1.39	-0.53	-47.11	0.0	0.0	
11,377.0	0.80	15.40	11,335.5	-570.5	-270.8	0.38	-0.27	-15.67	0.0	0.0	
11,532.0	0.80	337.60	11,490.5	-568.4	-270.9	0.33	0.00	-24.39	0.0	0.0	
11,588.0	1.20	320.80	11,546.4	-567.6	-271.4	0.88	0.71	-30.00	-0.2	0.1	
11,670.0	4.10	349.20	11,628.3	-564.0	-272.5	3.78	3.54	34.63	-2.7	0.4	
11,764.0	13.20	2.20	11,721.2	-550.0	-272.7	9.84	9.68	13.83	-6.2	1.1	
11,858.0	22.40	2.30	11,810.6	-521.3	-271.6	9.79	9.79	0.11	-6.2	0.4	
11,919.0	30.60	2.10	11,865.1	-494.1	-270.6	13.44	13.44	-0.33	-5.5	-0.1	
11,952.0	30.80	359.50	11,893.5	-477.3	-270.3	4.07	0.61	-7.88	-4.2	-0.2	
12,046.0	41.60	0.90	11,969.3	-421.9	-270.1	11.52	11.49	1.49	3.0	1.1	
12,096.0	54.20	3.20	12,002.7	-384.9	-268.7	25.43	25.20	4.80	4.1	0.6	
12,141.0	61.90	4.40	12,026.5	-346.8	-266.1	17.26	17.11	2.67	1.5	-0.9	
12,172.0	68.00	3.60	12,039.6	-318.8	-264.2	19.82	19.68	-2.58	-1.5	-2.0	
12,235.0	80.20	5.10	12,056.9	-258.5	-259.5	19.50	19.37	2.38	-11.6	-4.7	
12,329.0	86.00	1.80	12,068.1	-165.4	-254.0	7.09	6.17	-3.51	-25.5	-7.7	
12,423.0	86.60	0.60	12,074.2	-71.6	-252.0	1.42	0.64	-1.28	-25.6	-6.7	
12,517.0	90.40	1.10	12,076.7	22.3	-250.6	4.08	4.04	0.53	-20.7	-6.8	
12,611.0	91.80	0.60	12,074.9	116.3	-249.2	1.58	1.49	-0.53	-20.0	-9.0	
12,705.0	92.30	357.80	12,071.5	210.2	-250.5	3.02	0.53	-2.98	-20.9	-8.5	
12,799.0	88.00	356.70	12,071.3	304.1	-255.0	4.72	-4.57	-1.17	-18.7	-4.8	
12,893.0	85.90	356.70	12,076.3	397.8	-260.4	2.23	-2.23	0.00	-11.3	-0.3	



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12,988.0	83.50	355.10	12,085.0	492.1	-267.2	3.03	-2.53	-1.68	0.2	5.6	
13,081.0	81.70	351.40	12,097.0	583.7	-278.0	4.39	-1.94	-3.98	14.8	15.8	
13,175.0	90.20	353.00	12,103.7	676.5	-290.7	9.20	9.04	1.70	24.6	27.4	
13,270.0	91.70	1.50	12,102.1	771.3	-295.3	9.08	1.58	8.95	25.7	31.2	
13,364.0	91.10	1.90	12,099.8	865.2	-292.5	0.77	-0.64	0.43	26.3	27.6	
13,458.0	91.00	1.80	12,098.1	959.2	-289.5	0.15	-0.11	-0.11	27.4	23.7	
13,553.0	91.70	2.20	12,095.8	1,054.1	-286.1	0.85	0.74	0.42	28.1	19.6	
13,647.0	90.40	2.60	12,094.1	1,148.0	-282.2	1.45	-1.38	0.43	29.6	14.8	
13,741.0	93.10	2.40	12,091.2	1,241.8	-278.1	2.88	2.87	-0.21	30.1	9.9	
13,836.0	93.00	2.30	12,086.2	1,336.6	-274.2	0.15	-0.11	-0.11	28.5	5.1	
13,930.0	90.60	2.90	12,083.2	1,430.5	-270.0	2.63	-2.55	0.64	29.0	0.1	
14,024.0	90.30	357.80	12,082.5	1,524.4	-269.4	5.43	-0.32	-5.43	31.7	-1.5	
14,118.0	95.20	359.10	12,078.0	1,618.3	-271.9	5.39	5.21	1.38	30.6	0.3	
14,211.0	94.00	359.40	12,070.5	1,710.9	-273.1	1.33	-1.29	0.32	26.6	0.6	
14,305.0	93.80	359.90	12,064.1	1,804.7	-273.7	0.57	-0.21	0.53	23.6	0.4	
14,399.0	91.90	359.90	12,059.4	1,898.6	-273.9	2.02	-2.02	0.00	22.3	-0.3	
14,493.0	93.40	0.00	12,055.1	1,992.5	-274.0	1.60	1.60	0.11	21.4	-1.1	
14,587.0	91.60	359.90	12,051.0	2,086.4	-274.0	1.92	-1.91	-0.11	20.8	-1.8	
14,681.0	89.70	0.20	12,049.9	2,180.4	-274.0	2.05	-2.02	0.32	23.1	-2.7	
14,775.0	88.00	0.80	12,051.8	2,274.4	-273.1	1.92	-1.81	0.64	28.4	-4.4	
14,869.0	88.10	0.70	12,055.0	2,368.3	-271.9	0.15	0.11	-0.11	35.1	-6.5	
14,961.0	88.50	1.30	12,057.7	2,460.3	-270.3	0.78	0.43	0.65	41.1	-8.9	
15,055.0	90.80	0.30	12,058.3	2,554.2	-269.0	2.67	2.45	-1.06	45.1	-11.0	
15,149.0	91.60	0.90	12,056.4	2,648.2	-268.0	1.06	0.85	0.64	46.6	-12.9	
15,242.0	92.70	1.40	12,052.9	2,741.1	-266.1	1.30	1.18	0.54	46.5	-15.5	
15,336.0	90.20	359.00	12,050.5	2,835.1	-265.8	3.69	-2.66	-2.55	46.4	-16.8	
15,429.0	90.40	0.10	12,050.0	2,928.1	-266.5	1.20	0.22	1.18	48.3	-16.9	



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15,523.0	92.00	1.50	12,048.0	3,022.0	-265.2	2.26	1.70	1.49	48.6	-19.0
15,617.0	86.90	359.70	12,048.9	3,116.0	-264.2	5.75	-5.43	-1.91	51.8	-20.9
15,710.0	87.90	358.30	12,053.1	3,208.9	-265.9	1.85	1.08	-1.51	57.3	-20.1
15,804.0	93.40	0.00	12,052.1	3,302.8	-267.3	6.12	5.85	1.81	57.2	-19.5
15,897.0	91.30	359.90	12,048.3	3,395.7	-267.3	2.26	-2.26	-0.11	54.4	-20.3
15,991.0	91.50	358.60	12,046.0	3,489.7	-268.6	1.40	0.21	-1.38	53.1	-19.9
16,085.0	83.20	357.00	12,050.3	3,583.4	-272.2	8.99	-8.83	-1.70	58.3	-17.2
16,178.0	86.30	357.30	12,058.8	3,675.9	-276.8	3.35	3.33	0.32	67.8	-13.4
16,272.0	89.80	356.60	12,062.0	3,769.7	-281.8	3.80	3.72	-0.74	72.0	-9.2
16,366.0	91.80	357.20	12,060.9	3,863.6	-286.9	2.02	1.91	0.64	71.8	-5.0
16,460.0	92.90	357.80	12,057.2	3,957.4	-291.0	1.52	1.38	0.64	69.1	-1.7
16,553.0	91.00	357.80	12,054.0	4,050.3	-294.5	2.04	-2.04	0.00	66.9	1.0
16,647.0	90.80	358.60	12,052.5	4,144.2	-297.5	0.88	-0.21	0.65	66.3	3.1
16,740.0	90.60	0.60	12,051.4	4,237.2	-298.1	2.16	-0.22	2.15	66.2	3.0
16,834.0	89.30	359.30	12,051.5	4,331.2	-298.2	1.96	-1.38	-1.38	67.2	2.2
16,928.0	90.40	359.60	12,051.7	4,425.2	-299.1	1.21	1.17	0.32	68.4	2.3
16,997.0	91.30	359.60	12,050.7	4,494.2	-299.6	1.30	1.30	0.00	68.1	2.1
17,055.0	91.30	359.60	12,049.4	4,552.2	-300.0	0.00	0.00	0.00	67.4	2.0

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
11,628.0	11,586.4	-566.4	-272.0	KOP, MD:11628.0', TVD:11586.4', N/S:-566.4', E/W:-272.0', INC:2.56
11,871.4	11,822.9	-516.0	-271.4	FTP Crossing, MD:11871.4', TVD:11822.9', N/S:-516.0', E/W:-271.4', INC:24.20
16,997.0	12,050.7	4,494.2	-299.6	Last MWD Survey (MD=16997.0')
17,055.0	12,049.4	4,552.2	-300.0	Projection to Bit (MD=17055.0')



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #705H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3561.0usft
Site:	Joby Roger 16 State	MD Reference:	KB = 25 @ 3561.0usft
Well:	#705H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Jolly Roger 16 State #705H

Plan #3

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 = 25 @ 3561.0uoft
Northing 441904.00 Easting 804778.00
Latitude 32° 12' 43.205 N Longitude 103° 28' 53.546 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeet	Target
1	11632.0	0.50	337.50	11490.5	-568.4	-270.9	0.00	0.00	-549.5	
2	11670.3	0.50	337.50	11422.7	-568.8	-271.6	0.00	0.00	-547.7	
3	12426.7	91.50	1.82	12100.0	-76.9	-255.9	12.00	24.21	-65.8	
4	12543.0	91.50	359.49	12098.9	39.4	-257.5	2.00	-90.07	56.1	TGT#1(Jolly Rogers 16 State #705H)
5	12922.7	91.50	359.49	12087.0	418.9	-250.9	0.00	0.00	435.0	
6	12934.9	91.74	359.49	12086.7	431.1	-251.0	2.00	-1.74	447.3	
7	13592.0	91.74	359.49	12067.0	1077.9	-255.9	0.00	0.00	1053.0	TGT#2(Jolly Rogers 16 State #705H)
8	13599.5	92.09	359.49	12068.4	1095.4	-257.0	2.00	0.01	1110.5	
9	15227.7	92.09	359.49	12007.0	2722.4	-281.6	0.00	0.00	2735.9	TGT#3(Jolly Rogers 16 State #705H)
10	15261.7	91.41	359.49	12006.0	2768.4	-281.9	2.00	-180.00	2768.9	
11	16625.4	91.41	359.49	11997.0	3120.0	-285.1	0.00	0.00	3132.0	TGT#4(Jolly Rogers 16 State #705H)
12	16686.6	90.59	359.49	11996.3	3161.2	-285.5	2.00	180.00	3173.1	
13	17059.5	90.59	359.49	11992.0	4553.0	-299.0	0.00	0.00	4562.7	PBHL (Jolly Rogers 16 State #705H)

To convert a Magnetic Direction to a Grid Direction, Add 8.30°
To convert a Magnetic Direction to a True Direction, Add 6.75° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brady Top (Jolly Rogers 16 State #705H)	7641.0	-568.0	-252.0	441338.00	804526.00
PBHL (Jolly Rogers 16 State #705H)	11992.0	-453.0	-258.0	444457.00	804460.00
TGT#1(Jolly Rogers 16 State #705H)	11997.0	3120.0	-285.1	445024.00	804492.87
TGT#2(Jolly Rogers 16 State #705H)	12007.0	2722.4	-291.6	444826.40	804486.43
TGT#3(Jolly Rogers 16 State #705H)	12067.0	1077.9	-255.9	442951.90	804511.50
TGT#4(Jolly Rogers 16 State #705H)	12087.0	418.9	-260.9	442322.90	804517.12
FTP (Jolly Rogers 16 State #705H)	12095.0	-516.0	-252.0	441368.00	804526.00

