



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Jolly Roger 16 State

#704H

OH

Plan: Plan #0.1

Standard Planning Report

17 October, 2018

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3580.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3580.0usft
Site:	Jolly Roger 16 State	North Reference:	Grid
Well:	#704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	Latitude:	32° 13' 18.918 N
From:	Map	Easting:	804,489.00 usft	Longitude:	103° 28' 56.577 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.45

Well	#704H					
Well Position	+N/-S	844.0 usft	Northing:	446,355.00 usft	Latitude:	32° 13' 27.171 N
	+E/-W	1,263.0 usft	Easting:	805,752.00 usft	Longitude:	103° 28' 41.797 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,555.0 usft

Wellbore	OH				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/17/2018	6.77	60.06	47,809.79147811

Design	Plan #0.1				
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Audit Notes:					
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Version:	Phase:	PLAN	Tie On Depth:	0.0
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Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	171.37

Plan Survey Tool Program		Date 10/17/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,142.3	Plan #0.1 (OH)	MWD
				OWSG MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,246.5	4.93	76.21	3,246.2	2.5	10.3	2.00	2.00	0.00	76.21	
11,495.1	4.93	76.21	11,464.3	171.5	698.7	0.00	0.00	0.00	0.00	
11,741.6	0.00	0.00	11,710.5	174.0	709.0	2.00	-2.00	0.00	180.00	KOP (Jolly Rogers 16)
12,491.6	90.00	179.52	12,188.0	-303.4	713.0	12.00	12.00	23.94	179.52	
17,142.3	90.00	179.52	12,188.0	-4,954.0	752.0	0.00	0.00	0.00	0.00	PBHL (Jolly Rogers 16)

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Site:	Jolly Roger 16 State	North Reference:	Grid
Well:	#704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	2.00	76.21	3,100.0	0.4	1.7	-0.2	2.00	2.00	0.00
3,200.0	4.00	76.21	3,199.8	1.7	6.8	-0.6	2.00	2.00	0.00
3,246.5	4.93	76.21	3,246.2	2.5	10.3	-1.0	2.00	2.00	0.00
3,300.0	4.93	76.21	3,299.5	3.6	14.8	-1.4	0.00	0.00	0.00
3,400.0	4.93	76.21	3,399.1	5.7	23.1	-2.1	0.00	0.00	0.00
3,500.0	4.93	76.21	3,498.8	7.7	31.4	-2.9	0.00	0.00	0.00
3,600.0	4.93	76.21	3,598.4	9.8	39.8	-3.7	0.00	0.00	0.00
3,700.0	4.93	76.21	3,698.0	11.8	48.1	-4.5	0.00	0.00	0.00
3,800.0	4.93	76.21	3,797.6	13.9	56.5	-5.2	0.00	0.00	0.00
3,900.0	4.93	76.21	3,897.3	15.9	64.8	-6.0	0.00	0.00	0.00
4,000.0	4.93	76.21	3,996.9	18.0	73.2	-6.8	0.00	0.00	0.00
4,100.0	4.93	76.21	4,096.5	20.0	81.5	-7.5	0.00	0.00	0.00
4,200.0	4.93	76.21	4,196.2	22.1	89.9	-8.3	0.00	0.00	0.00
4,300.0	4.93	76.21	4,295.8	24.1	98.2	-9.1	0.00	0.00	0.00
4,400.0	4.93	76.21	4,395.4	26.2	106.6	-9.9	0.00	0.00	0.00
4,500.0	4.93	76.21	4,495.1	28.2	114.9	-10.6	0.00	0.00	0.00
4,600.0	4.93	76.21	4,594.7	30.2	123.3	-11.4	0.00	0.00	0.00
4,700.0	4.93	76.21	4,694.3	32.3	131.6	-12.2	0.00	0.00	0.00
4,800.0	4.93	76.21	4,793.9	34.3	139.9	-13.0	0.00	0.00	0.00
4,900.0	4.93	76.21	4,893.6	36.4	148.3	-13.7	0.00	0.00	0.00
5,000.0	4.93	76.21	4,993.2	38.4	156.6	-14.5	0.00	0.00	0.00
5,100.0	4.93	76.21	5,092.8	40.5	165.0	-15.3	0.00	0.00	0.00
5,200.0	4.93	76.21	5,192.5	42.5	173.3	-16.0	0.00	0.00	0.00

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Site:	Jolly Roger 16 State	North Reference:	Grid
Well:	#704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	4.93	76.21	5,292.1	44.6	181.7	-16.8	0.00	0.00	0.00
5,400.0	4.93	76.21	5,391.7	46.6	190.0	-17.6	0.00	0.00	0.00
5,500.0	4.93	76.21	5,491.4	48.7	198.4	-18.4	0.00	0.00	0.00
5,600.0	4.93	76.21	5,591.0	50.7	206.7	-19.1	0.00	0.00	0.00
5,700.0	4.93	76.21	5,690.6	52.8	215.1	-19.9	0.00	0.00	0.00
5,800.0	4.93	76.21	5,790.2	54.8	223.4	-20.7	0.00	0.00	0.00
5,900.0	4.93	76.21	5,889.9	56.9	231.7	-21.5	0.00	0.00	0.00
6,000.0	4.93	76.21	5,989.5	58.9	240.1	-22.2	0.00	0.00	0.00
6,100.0	4.93	76.21	6,089.1	61.0	248.4	-23.0	0.00	0.00	0.00
6,200.0	4.93	76.21	6,188.8	63.0	256.8	-23.8	0.00	0.00	0.00
6,300.0	4.93	76.21	6,288.4	65.1	265.1	-24.5	0.00	0.00	0.00
6,400.0	4.93	76.21	6,388.0	67.1	273.5	-25.3	0.00	0.00	0.00
6,500.0	4.93	76.21	6,487.7	69.2	281.8	-26.1	0.00	0.00	0.00
6,600.0	4.93	76.21	6,587.3	71.2	290.2	-26.9	0.00	0.00	0.00
6,700.0	4.93	76.21	6,686.9	73.3	298.5	-27.6	0.00	0.00	0.00
6,800.0	4.93	76.21	6,786.6	75.3	306.9	-28.4	0.00	0.00	0.00
6,900.0	4.93	76.21	6,886.2	77.4	315.2	-29.2	0.00	0.00	0.00
7,000.0	4.93	76.21	6,985.8	79.4	323.6	-29.9	0.00	0.00	0.00
7,100.0	4.93	76.21	7,085.4	81.5	331.9	-30.7	0.00	0.00	0.00
7,200.0	4.93	76.21	7,185.1	83.5	340.2	-31.5	0.00	0.00	0.00
7,300.0	4.93	76.21	7,284.7	85.5	348.6	-32.3	0.00	0.00	0.00
7,400.0	4.93	76.21	7,384.3	87.6	356.9	-33.0	0.00	0.00	0.00
7,500.0	4.93	76.21	7,484.0	89.6	365.3	-33.8	0.00	0.00	0.00
7,600.0	4.93	76.21	7,583.6	91.7	373.6	-34.6	0.00	0.00	0.00
7,700.0	4.93	76.21	7,683.2	93.7	382.0	-35.4	0.00	0.00	0.00
7,800.0	4.93	76.21	7,782.9	95.8	390.3	-36.1	0.00	0.00	0.00
7,900.0	4.93	76.21	7,882.5	97.8	398.7	-36.9	0.00	0.00	0.00
8,000.0	4.93	76.21	7,982.1	99.9	407.0	-37.7	0.00	0.00	0.00
8,100.0	4.93	76.21	8,081.7	101.9	415.4	-38.4	0.00	0.00	0.00
8,200.0	4.93	76.21	8,181.4	104.0	423.7	-39.2	0.00	0.00	0.00
8,300.0	4.93	76.21	8,281.0	106.0	432.0	-40.0	0.00	0.00	0.00
8,400.0	4.93	76.21	8,380.6	108.1	440.4	-40.8	0.00	0.00	0.00
8,500.0	4.93	76.21	8,480.3	110.1	448.7	-41.5	0.00	0.00	0.00
8,600.0	4.93	76.21	8,579.9	112.2	457.1	-42.3	0.00	0.00	0.00
8,700.0	4.93	76.21	8,679.5	114.2	465.4	-43.1	0.00	0.00	0.00
8,800.0	4.93	76.21	8,779.2	116.3	473.8	-43.9	0.00	0.00	0.00
8,900.0	4.93	76.21	8,878.8	118.3	482.1	-44.6	0.00	0.00	0.00
9,000.0	4.93	76.21	8,978.4	120.4	490.5	-45.4	0.00	0.00	0.00
9,100.0	4.93	76.21	9,078.0	122.4	498.8	-46.2	0.00	0.00	0.00
9,200.0	4.93	76.21	9,177.7	124.5	507.2	-46.9	0.00	0.00	0.00
9,300.0	4.93	76.21	9,277.3	126.5	515.5	-47.7	0.00	0.00	0.00
9,400.0	4.93	76.21	9,376.9	128.6	523.9	-48.5	0.00	0.00	0.00
9,500.0	4.93	76.21	9,476.6	130.6	532.2	-49.3	0.00	0.00	0.00
9,600.0	4.93	76.21	9,576.2	132.7	540.5	-50.0	0.00	0.00	0.00
9,700.0	4.93	76.21	9,675.8	134.7	548.9	-50.8	0.00	0.00	0.00
9,800.0	4.93	76.21	9,775.5	136.8	557.2	-51.6	0.00	0.00	0.00
9,900.0	4.93	76.21	9,875.1	138.8	565.6	-52.3	0.00	0.00	0.00
10,000.0	4.93	76.21	9,974.7	140.9	573.9	-53.1	0.00	0.00	0.00
10,100.0	4.93	76.21	10,074.3	142.9	582.3	-53.9	0.00	0.00	0.00
10,200.0	4.93	76.21	10,174.0	144.9	590.6	-54.7	0.00	0.00	0.00
10,300.0	4.93	76.21	10,273.6	147.0	599.0	-55.4	0.00	0.00	0.00
10,400.0	4.93	76.21	10,373.2	149.0	607.3	-56.2	0.00	0.00	0.00
10,500.0	4.93	76.21	10,472.9	151.1	615.7	-57.0	0.00	0.00	0.00
10,600.0	4.93	76.21	10,572.5	153.1	624.0	-57.8	0.00	0.00	0.00

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Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	4.93	76.21	10,672.1	155.2	632.3	-58.5	0.00	0.00	0.00
10,800.0	4.93	76.21	10,771.8	157.2	640.7	-59.3	0.00	0.00	0.00
10,900.0	4.93	76.21	10,871.4	159.3	649.0	-60.1	0.00	0.00	0.00
11,000.0	4.93	76.21	10,971.0	161.3	657.4	-60.8	0.00	0.00	0.00
11,100.0	4.93	76.21	11,070.6	163.4	665.7	-61.6	0.00	0.00	0.00
11,200.0	4.93	76.21	11,170.3	165.4	674.1	-62.4	0.00	0.00	0.00
11,300.0	4.93	76.21	11,269.9	167.5	682.4	-63.2	0.00	0.00	0.00
11,400.0	4.93	76.21	11,369.5	169.5	690.8	-63.9	0.00	0.00	0.00
11,495.1	4.93	76.21	11,464.3	171.5	698.7	-64.7	0.00	0.00	0.00
11,500.0	4.83	76.21	11,469.2	171.6	699.1	-64.7	2.00	-2.00	0.00
11,600.0	2.83	76.21	11,568.9	173.2	705.6	-65.3	2.00	-2.00	0.00
11,700.0	0.83	76.21	11,668.9	173.9	708.7	-65.6	2.00	-2.00	0.00
11,741.6	0.00	0.00	11,710.5	174.0	709.0	-65.6	2.00	-2.00	0.00
KOP (Jolly Rogers 16 State #704H)									
11,750.0	1.01	179.52	11,718.9	173.9	709.0	-65.6	12.00	12.00	0.00
11,775.0	4.01	179.52	11,743.9	172.8	709.0	-64.5	12.00	12.00	0.00
11,800.0	7.01	179.52	11,768.7	170.4	709.0	-62.1	12.00	12.00	0.00
11,825.0	10.01	179.52	11,793.5	166.7	709.1	-58.4	12.00	12.00	0.00
11,850.0	13.01	179.52	11,817.9	161.8	709.1	-53.5	12.00	12.00	0.00
11,875.0	16.01	179.52	11,842.2	155.5	709.2	-47.3	12.00	12.00	0.00
11,900.0	19.01	179.52	11,866.0	148.0	709.2	-39.9	12.00	12.00	0.00
11,925.0	22.01	179.52	11,889.4	139.2	709.3	-31.2	12.00	12.00	0.00
11,950.0	25.01	179.52	11,912.3	129.2	709.4	-21.3	12.00	12.00	0.00
11,975.0	28.01	179.52	11,934.7	118.1	709.5	-10.3	12.00	12.00	0.00
12,000.0	31.01	179.52	11,956.5	105.8	709.6	1.9	12.00	12.00	0.00
12,025.0	34.01	179.52	11,977.5	92.3	709.7	15.2	12.00	12.00	0.00
12,050.0	37.01	179.52	11,997.9	77.8	709.8	29.6	12.00	12.00	0.00
12,075.0	40.01	179.52	12,017.4	62.3	709.9	45.0	12.00	12.00	0.00
12,100.0	43.01	179.52	12,036.2	45.7	710.1	61.4	12.00	12.00	0.00
12,125.0	46.01	179.52	12,054.0	28.2	710.2	78.7	12.00	12.00	0.00
12,144.9	48.39	179.52	12,067.5	13.6	710.3	93.2	12.00	12.00	0.00
FTP (Jolly Rogers 16 State #704H)									
12,150.0	49.01	179.52	12,070.9	9.8	710.4	97.0	12.00	12.00	0.00
12,175.0	52.01	179.52	12,086.8	-9.5	710.5	116.1	12.00	12.00	0.00
12,200.0	55.01	179.52	12,101.6	-29.6	710.7	136.0	12.00	12.00	0.00
12,225.0	58.01	179.52	12,115.4	-50.5	710.9	156.6	12.00	12.00	0.00
12,250.0	61.01	179.52	12,128.1	-72.0	711.1	177.9	12.00	12.00	0.00
12,275.0	64.01	179.52	12,139.7	-94.2	711.2	199.9	12.00	12.00	0.00
12,300.0	67.01	179.52	12,150.0	-116.9	711.4	222.4	12.00	12.00	0.00
12,325.0	70.01	179.52	12,159.2	-140.2	711.6	245.4	12.00	12.00	0.00
12,350.0	73.01	179.52	12,167.1	-163.9	711.8	268.9	12.00	12.00	0.00
12,375.0	76.01	179.52	12,173.8	-188.0	712.0	292.7	12.00	12.00	0.00
12,400.0	79.01	179.52	12,179.2	-212.4	712.2	316.9	12.00	12.00	0.00
12,425.0	82.01	179.52	12,183.3	-237.0	712.4	341.3	12.00	12.00	0.00
12,450.0	85.01	179.52	12,186.2	-261.9	712.7	365.9	12.00	12.00	0.00
12,475.0	88.01	179.52	12,187.7	-286.8	712.9	390.6	12.00	12.00	0.00
12,491.6	90.00	179.52	12,188.0	-303.4	713.0	407.0	12.00	12.00	0.00
12,500.0	90.00	179.52	12,188.0	-311.8	713.1	415.3	0.00	0.00	0.00
12,600.0	90.00	179.52	12,188.0	-411.8	713.9	514.3	0.00	0.00	0.00
12,700.0	90.00	179.52	12,188.0	-511.8	714.8	613.3	0.00	0.00	0.00
12,800.0	90.00	179.52	12,188.0	-611.8	715.6	712.3	0.00	0.00	0.00
12,900.0	90.00	179.52	12,188.0	-711.8	716.4	811.3	0.00	0.00	0.00
13,000.0	90.00	179.52	12,188.0	-811.8	717.3	910.3	0.00	0.00	0.00
13,100.0	90.00	179.52	12,188.0	-911.8	718.1	1,009.2	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3580.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3580.0usft
Site:	Jolly Roger 16 State	North Reference:	Grid
Well:	#704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,200.0	90.00	179.52	12,188.0	-1,011.8	718.9	1,108.2	0.00	0.00	0.00
13,300.0	90.00	179.52	12,188.0	-1,111.8	719.8	1,207.2	0.00	0.00	0.00
13,400.0	90.00	179.52	12,188.0	-1,211.8	720.6	1,306.2	0.00	0.00	0.00
13,500.0	90.00	179.52	12,188.0	-1,311.8	721.5	1,405.2	0.00	0.00	0.00
13,600.0	90.00	179.52	12,188.0	-1,411.8	722.3	1,504.2	0.00	0.00	0.00
13,700.0	90.00	179.52	12,188.0	-1,511.8	723.1	1,603.2	0.00	0.00	0.00
13,800.0	90.00	179.52	12,188.0	-1,611.8	724.0	1,702.2	0.00	0.00	0.00
13,900.0	90.00	179.52	12,188.0	-1,711.8	724.8	1,801.2	0.00	0.00	0.00
14,000.0	90.00	179.52	12,188.0	-1,811.8	725.7	1,900.2	0.00	0.00	0.00
14,100.0	90.00	179.52	12,188.0	-1,911.8	726.5	1,999.1	0.00	0.00	0.00
14,200.0	90.00	179.52	12,188.0	-2,011.8	727.3	2,098.1	0.00	0.00	0.00
14,300.0	90.00	179.52	12,188.0	-2,111.8	728.2	2,197.1	0.00	0.00	0.00
14,400.0	90.00	179.52	12,188.0	-2,211.8	729.0	2,296.1	0.00	0.00	0.00
14,500.0	90.00	179.52	12,188.0	-2,311.8	729.8	2,395.1	0.00	0.00	0.00
14,600.0	90.00	179.52	12,188.0	-2,411.8	730.7	2,494.1	0.00	0.00	0.00
14,700.0	90.00	179.52	12,188.0	-2,511.7	731.5	2,593.1	0.00	0.00	0.00
14,800.0	90.00	179.52	12,188.0	-2,611.7	732.4	2,692.1	0.00	0.00	0.00
14,900.0	90.00	179.52	12,188.0	-2,711.7	733.2	2,791.1	0.00	0.00	0.00
15,000.0	90.00	179.52	12,188.0	-2,811.7	734.0	2,890.1	0.00	0.00	0.00
15,100.0	90.00	179.52	12,188.0	-2,911.7	734.9	2,989.0	0.00	0.00	0.00
15,200.0	90.00	179.52	12,188.0	-3,011.7	735.7	3,088.0	0.00	0.00	0.00
15,300.0	90.00	179.52	12,188.0	-3,111.7	736.6	3,187.0	0.00	0.00	0.00
15,400.0	90.00	179.52	12,188.0	-3,211.7	737.4	3,286.0	0.00	0.00	0.00
15,500.0	90.00	179.52	12,188.0	-3,311.7	738.2	3,385.0	0.00	0.00	0.00
15,600.0	90.00	179.52	12,188.0	-3,411.7	739.1	3,484.0	0.00	0.00	0.00
15,700.0	90.00	179.52	12,188.0	-3,511.7	739.9	3,583.0	0.00	0.00	0.00
15,800.0	90.00	179.52	12,188.0	-3,611.7	740.7	3,682.0	0.00	0.00	0.00
15,900.0	90.00	179.52	12,188.0	-3,711.7	741.6	3,781.0	0.00	0.00	0.00
16,000.0	90.00	179.52	12,188.0	-3,811.7	742.4	3,880.0	0.00	0.00	0.00
16,100.0	90.00	179.52	12,188.0	-3,911.7	743.3	3,978.9	0.00	0.00	0.00
16,200.0	90.00	179.52	12,188.0	-4,011.7	744.1	4,077.9	0.00	0.00	0.00
16,300.0	90.00	179.52	12,188.0	-4,111.7	744.9	4,176.9	0.00	0.00	0.00
16,400.0	90.00	179.52	12,188.0	-4,211.7	745.8	4,275.9	0.00	0.00	0.00
16,500.0	90.00	179.52	12,188.0	-4,311.7	746.6	4,374.9	0.00	0.00	0.00
16,600.0	90.00	179.52	12,188.0	-4,411.7	747.5	4,473.9	0.00	0.00	0.00
16,700.0	90.00	179.52	12,188.0	-4,511.7	748.3	4,572.9	0.00	0.00	0.00
16,800.0	90.00	179.52	12,188.0	-4,611.7	749.1	4,671.9	0.00	0.00	0.00
16,900.0	90.00	179.52	12,188.0	-4,711.7	750.0	4,770.9	0.00	0.00	0.00
17,000.0	90.00	179.52	12,188.0	-4,811.7	750.8	4,869.9	0.00	0.00	0.00
17,100.0	90.00	179.52	12,188.0	-4,911.7	751.6	4,968.8	0.00	0.00	0.00
17,142.3	90.00	179.52	12,188.0	-4,954.0	752.0	5,010.8	0.00	0.00	0.00
PBHL (Jolly Rogers 16 State #704H)									



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #704H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3580.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3580.0usft
Site:	Jolly Roger 16 State	North Reference:	Grid
Well:	#704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
KOP (Jolly Rogers 16 St - plan hits target center - Point	0.00	0.00	11,710.5	174.0	709.0	446,529.00	806,461.00	32° 13' 28.836 N	103° 28' 33.528 W
FTP (Jolly Rogers 16 St - plan misses target center by 163.4usft at 12144.9usft MD (12067.5 TVD, 13.6 N, 710.3 E) - Point	0.00	0.00	12,188.0	124.0	709.0	446,479.00	806,461.00	32° 13' 28.342 N	103° 28' 33.532 W
PBHL (Jolly Rogers 16 S - plan hits target center - Point	0.00	0.00	12,188.0	-4,954.0	752.0	441,401.00	806,504.00	32° 12' 38.092 N	103° 28' 33.503 W



Lea County, NM (NAD 83 NME)

Jolly Roger 16 State #704H

Plan #0.1

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: #704H

KB = 25 @ 3580.0usft
Northing 446355.00 Easting 805752.00 Latitude 32° 13' 27.171 N Longitude 103° 28' 41.797 W

Azimuths to Grid North
True North: -0.46°
Magnetic North: 6.31°
Magnetic Field
Strength: 47809.8nT
Dip Angle: 60.06°
Date: 10/17/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.31°
To convert a Magnetic Direction to a True Direction, Add 6.77° East
To convert a True Direction to a Grid Direction, Subtract 0.46°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3246.5	4.93	76.21	3246.2	2.5	10.3	2.00	76.21	-1.0	
4	11495.1	4.93	76.21	11464.3	171.5	698.7	0.00	0.00	-64.7	KOP (Jolly Rogers 16 State #704H)
5	11741.6	0.00	0.00	11710.5	174.0	709.0	2.00	180.00	-65.6	
6	12491.6	90.00	179.52	12188.0	-303.4	713.0	12.00	179.52	407.0	PBHL (Jolly Rogers 16 State #704H)
7	17142.3	90.00	179.52	12188.0	-4954.0	752.0	0.00	0.00	5010.8	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Jolly Rogers 16 State #704H)	11710.5	174.0	709.0	446352.00	805661.00
FTP (Jolly Rogers 16 State #704H)	12188.0	124.0	709.0	446479.00	805661.00
PBHL (Jolly Rogers 16 State #704H)	12188.0	-4954.0	752.0	441401.00	805504.00

