

30-025-45313



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Jolly Roger 16 State

#701H

OH

Plan: Plan #0.1

Standard Planning Report

17 October, 2018

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3581.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3581.0usft
Site:	Jolly Roger 16 State	North Reference:	Grid
Well:	#701H	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	#701H			
Well Position	+N/-S	834.0 usft	Northing:	446,345.00 usft
	+E/-W	786.0 usft	Easting:	805,275.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	
			Ground Level:	3,556.0 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	47,809.61406829

Design	Plan #0.1			
Audit Notes:				
Version:		Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD): (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	188.59

Plan Survey Tool Program	Date: 10/17/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,016.6 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
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	
3,280.0	5.60	282.21	3,279.6	2.9	-13.4	2.00	2.00	0.00	282.21	
11,334.8	5.60	282.21	11,295.9	169.1	-781.6	0.00	0.00	0.00	0.00	
11,614.8	0.00	0.00	11,575.5	172.0	-795.0	2.00	-2.00	0.00	180.00	KOP (Jolly Rogers 16
12,364.8	90.00	179.49	12,053.0	-305.4	-790.7	12.00	12.00	23.93	179.49	
17,016.6	90.00	179.49	12,053.0	-4,957.0	-749.0	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:	#701H	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	282.21	3,100.0	0.4	-1.7	-0.1	2.00	2.00	0.00
3,200.0	4.00	282.21	3,199.8	1.5	-6.8	-0.4	2.00	2.00	0.00
3,280.0	5.60	282.21	3,279.6	2.9	-13.4	-0.9	2.00	2.00	0.00
3,300.0	5.60	282.21	3,299.5	3.3	-15.3	-1.0	0.00	0.00	0.00
3,400.0	5.60	282.21	3,399.0	5.4	-24.8	-1.6	0.00	0.00	0.00
3,500.0	5.60	282.21	3,498.5	7.4	-34.3	-2.2	0.00	0.00	0.00
3,600.0	5.60	282.21	3,598.0	9.5	-43.9	-2.8	0.00	0.00	0.00
3,700.0	5.60	282.21	3,697.5	11.6	-53.4	-3.4	0.00	0.00	0.00
3,800.0	5.60	282.21	3,797.1	13.6	-63.0	-4.1	0.00	0.00	0.00
3,900.0	5.60	282.21	3,896.6	15.7	-72.5	-4.7	0.00	0.00	0.00
4,000.0	5.60	282.21	3,996.1	17.7	-82.0	-5.3	0.00	0.00	0.00
4,100.0	5.60	282.21	4,095.6	19.8	-91.6	-5.9	0.00	0.00	0.00
4,200.0	5.60	282.21	4,195.2	21.9	-101.1	-6.5	0.00	0.00	0.00
4,300.0	5.60	282.21	4,294.7	23.9	-110.7	-7.1	0.00	0.00	0.00
4,400.0	5.60	282.21	4,394.2	26.0	-120.2	-7.8	0.00	0.00	0.00
4,500.0	5.60	282.21	4,493.7	28.1	-129.7	-8.4	0.00	0.00	0.00
4,600.0	5.60	282.21	4,593.3	30.1	-139.3	-9.0	0.00	0.00	0.00
4,700.0	5.60	282.21	4,692.8	32.2	-148.8	-9.6	0.00	0.00	0.00
4,800.0	5.60	282.21	4,792.3	34.3	-158.3	-10.2	0.00	0.00	0.00
4,900.0	5.60	282.21	4,891.8	36.3	-167.9	-10.8	0.00	0.00	0.00
5,000.0	5.60	282.21	4,991.3	38.4	-177.4	-11.4	0.00	0.00	0.00
5,100.0	5.60	282.21	5,090.9	40.4	-187.0	-12.1	0.00	0.00	0.00
5,200.0	5.60	282.21	5,190.4	42.5	-196.5	-12.7	0.00	0.00	0.00



Planning Report

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Site:	Jolly Roger 16 State	North Reference:	Grid
Well:	#701H	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	5.60	282.21	5,289.9	44.6	-206.0	-13.3	0.00	0.00	0.00
5,400.0	5.60	282.21	5,389.4	46.6	-215.6	-13.9	0.00	0.00	0.00
5,500.0	5.60	282.21	5,489.0	48.7	-225.1	-14.5	0.00	0.00	0.00
5,600.0	5.60	282.21	5,588.5	50.8	-234.6	-15.1	0.00	0.00	0.00
5,700.0	5.60	282.21	5,688.0	52.8	-244.2	-15.8	0.00	0.00	0.00
5,800.0	5.60	282.21	5,787.5	54.9	-253.7	-16.4	0.00	0.00	0.00
5,900.0	5.60	282.21	5,887.0	57.0	-263.3	-17.0	0.00	0.00	0.00
6,000.0	5.60	282.21	5,986.6	59.0	-272.8	-17.6	0.00	0.00	0.00
6,100.0	5.60	282.21	6,086.1	61.1	-282.3	-18.2	0.00	0.00	0.00
6,200.0	5.60	282.21	6,185.6	63.1	-291.9	-18.8	0.00	0.00	0.00
6,300.0	5.60	282.21	6,285.1	65.2	-301.4	-19.4	0.00	0.00	0.00
6,400.0	5.60	282.21	6,384.7	67.3	-311.0	-20.1	0.00	0.00	0.00
6,500.0	5.60	282.21	6,484.2	69.3	-320.5	-20.7	0.00	0.00	0.00
6,600.0	5.60	282.21	6,583.7	71.4	-330.0	-21.3	0.00	0.00	0.00
6,700.0	5.60	282.21	6,683.2	73.5	-339.6	-21.9	0.00	0.00	0.00
6,800.0	5.60	282.21	6,782.8	75.5	-349.1	-22.5	0.00	0.00	0.00
6,900.0	5.60	282.21	6,882.3	77.6	-358.6	-23.1	0.00	0.00	0.00
7,000.0	5.60	282.21	6,981.8	79.7	-368.2	-23.8	0.00	0.00	0.00
7,100.0	5.60	282.21	7,081.3	81.7	-377.7	-24.4	0.00	0.00	0.00
7,200.0	5.60	282.21	7,180.8	83.8	-387.3	-25.0	0.00	0.00	0.00
7,300.0	5.60	282.21	7,280.4	85.8	-396.8	-25.6	0.00	0.00	0.00
7,400.0	5.60	282.21	7,379.9	87.9	-406.3	-26.2	0.00	0.00	0.00
7,500.0	5.60	282.21	7,479.4	90.0	-415.9	-26.8	0.00	0.00	0.00
7,600.0	5.60	282.21	7,578.9	92.0	-425.4	-27.4	0.00	0.00	0.00
7,700.0	5.60	282.21	7,678.5	94.1	-434.9	-28.1	0.00	0.00	0.00
7,800.0	5.60	282.21	7,778.0	96.2	-444.5	-28.7	0.00	0.00	0.00
7,900.0	5.60	282.21	7,877.5	98.2	-454.0	-29.3	0.00	0.00	0.00
8,000.0	5.60	282.21	7,977.0	100.3	-463.6	-29.9	0.00	0.00	0.00
8,100.0	5.60	282.21	8,076.5	102.4	-473.1	-30.5	0.00	0.00	0.00
8,200.0	5.60	282.21	8,176.1	104.4	-482.6	-31.1	0.00	0.00	0.00
8,300.0	5.60	282.21	8,275.6	106.5	-492.2	-31.8	0.00	0.00	0.00
8,400.0	5.60	282.21	8,375.1	108.5	-501.7	-32.4	0.00	0.00	0.00
8,500.0	5.60	282.21	8,474.6	110.6	-511.2	-33.0	0.00	0.00	0.00
8,600.0	5.60	282.21	8,574.2	112.7	-520.8	-33.6	0.00	0.00	0.00
8,700.0	5.60	282.21	8,673.7	114.7	-530.3	-34.2	0.00	0.00	0.00
8,800.0	5.60	282.21	8,773.2	116.8	-539.9	-34.8	0.00	0.00	0.00
8,900.0	5.60	282.21	8,872.7	118.9	-549.4	-35.4	0.00	0.00	0.00
9,000.0	5.60	282.21	8,972.3	120.9	-558.9	-36.1	0.00	0.00	0.00
9,100.0	5.60	282.21	9,071.8	123.0	-568.5	-36.7	0.00	0.00	0.00
9,200.0	5.60	282.21	9,171.3	125.1	-578.0	-37.3	0.00	0.00	0.00
9,300.0	5.60	282.21	9,270.8	127.1	-587.6	-37.9	0.00	0.00	0.00
9,400.0	5.60	282.21	9,370.3	129.2	-597.1	-38.5	0.00	0.00	0.00
9,500.0	5.60	282.21	9,469.9	131.2	-606.6	-39.1	0.00	0.00	0.00
9,600.0	5.60	282.21	9,569.4	133.3	-616.2	-39.8	0.00	0.00	0.00
9,700.0	5.60	282.21	9,668.9	135.4	-625.7	-40.4	0.00	0.00	0.00
9,800.0	5.60	282.21	9,768.4	137.4	-635.2	-41.0	0.00	0.00	0.00
9,900.0	5.60	282.21	9,868.0	139.5	-644.8	-41.6	0.00	0.00	0.00
10,000.0	5.60	282.21	9,967.5	141.6	-654.3	-42.2	0.00	0.00	0.00
10,100.0	5.60	282.21	10,067.0	143.6	-663.9	-42.8	0.00	0.00	0.00
10,200.0	5.60	282.21	10,166.5	145.7	-673.4	-43.4	0.00	0.00	0.00
10,300.0	5.60	282.21	10,266.0	147.8	-682.9	-44.1	0.00	0.00	0.00
10,400.0	5.60	282.21	10,365.6	149.8	-692.5	-44.7	0.00	0.00	0.00
10,500.0	5.60	282.21	10,465.1	151.9	-702.0	-45.3	0.00	0.00	0.00
10,600.0	5.60	282.21	10,564.6	153.9	-711.5	-45.9	0.00	0.00	0.00

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Site:	Jolly Roger 16 State	North Reference:	Grid
Well:	#701H	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)
10,700.0	5.60	282.21	10,664.1	156.0	-721.1	-46.5	0.00	0.00	0.00
10,800.0	5.60	282.21	10,763.7	158.1	-730.6	-47.1	0.00	0.00	0.00
10,900.0	5.60	282.21	10,863.2	160.1	-740.2	-47.8	0.00	0.00	0.00
11,000.0	5.60	282.21	10,962.7	162.2	-749.7	-48.4	0.00	0.00	0.00
11,100.0	5.60	282.21	11,062.2	164.3	-759.2	-49.0	0.00	0.00	0.00
11,200.0	5.60	282.21	11,161.8	166.3	-768.8	-49.6	0.00	0.00	0.00
11,300.0	5.60	282.21	11,261.3	168.4	-778.3	-50.2	0.00	0.00	0.00
11,334.8	5.60	282.21	11,295.9	169.1	-781.6	-50.4	0.00	0.00	0.00
11,400.0	4.30	282.21	11,360.9	170.3	-787.1	-50.8	2.00	-2.00	0.00
11,500.0	2.30	282.21	11,460.7	171.5	-792.8	-51.1	2.00	-2.00	0.00
11,600.0	0.30	282.21	11,560.7	172.0	-795.0	-51.3	2.00	-2.00	0.00
11,614.8	0.00	0.00	11,575.5	172.0	-795.0	-51.3	2.00	-2.00	0.00
KOP (Jolly Rogers 16 State #701H)									
11,625.0	1.22	179.49	11,585.7	171.9	-795.0	-51.2	12.00	12.00	0.00
11,650.0	4.22	179.49	11,610.6	170.7	-795.0	-50.0	12.00	12.00	0.00
11,675.0	7.22	179.49	11,635.5	168.2	-795.0	-47.6	12.00	12.00	0.00
11,700.0	10.22	179.49	11,660.2	164.4	-794.9	-43.8	12.00	12.00	0.00
11,725.0	13.22	179.49	11,684.7	159.3	-794.9	-38.8	12.00	12.00	0.00
11,750.0	16.22	179.49	11,708.9	153.0	-794.8	-32.5	12.00	12.00	0.00
11,775.0	19.22	179.49	11,732.7	145.4	-794.8	-25.0	12.00	12.00	0.00
11,800.0	22.22	179.49	11,756.1	136.5	-794.7	-16.3	12.00	12.00	0.00
11,825.0	25.22	179.49	11,778.9	126.5	-794.6	-6.4	12.00	12.00	0.00
11,850.0	28.22	179.49	11,801.3	115.3	-794.5	4.7	12.00	12.00	0.00
11,875.0	31.22	179.49	11,823.0	102.9	-794.4	17.0	12.00	12.00	0.00
11,900.0	34.22	179.49	11,844.0	89.3	-794.3	30.3	12.00	12.00	0.00
11,925.0	37.22	179.49	11,864.3	74.8	-794.1	44.7	12.00	12.00	0.00
11,950.0	40.22	179.49	11,883.8	59.1	-794.0	60.2	12.00	12.00	0.00
11,975.0	43.22	179.49	11,902.5	42.5	-793.8	76.6	12.00	12.00	0.00
12,000.0	46.22	179.49	11,920.2	24.9	-793.7	94.0	12.00	12.00	0.00
12,017.5	48.32	179.49	11,932.1	12.1	-793.6	106.6	12.00	12.00	0.00
FTP (Jolly Rogers 16 State #701H)									
12,025.0	49.22	179.49	11,937.0	6.4	-793.5	112.2	12.00	12.00	0.00
12,050.0	52.22	179.49	11,952.9	-12.9	-793.3	131.3	12.00	12.00	0.00
12,075.0	55.22	179.49	11,967.7	-33.1	-793.2	151.2	12.00	12.00	0.00
12,100.0	58.22	179.49	11,981.4	-54.0	-793.0	171.9	12.00	12.00	0.00
12,125.0	61.22	179.49	11,994.0	-75.6	-792.8	193.2	12.00	12.00	0.00
12,150.0	64.22	179.49	12,005.4	-97.8	-792.6	215.1	12.00	12.00	0.00
12,175.0	67.22	179.49	12,015.7	-120.6	-792.4	237.6	12.00	12.00	0.00
12,200.0	70.22	179.49	12,024.8	-143.9	-792.2	260.6	12.00	12.00	0.00
12,225.0	73.22	179.49	12,032.6	-167.6	-792.0	284.0	12.00	12.00	0.00
12,250.0	76.22	179.49	12,039.2	-191.7	-791.7	307.9	12.00	12.00	0.00
12,275.0	79.22	179.49	12,044.5	-216.1	-791.5	332.0	12.00	12.00	0.00
12,300.0	82.22	179.49	12,048.6	-240.8	-791.3	356.3	12.00	12.00	0.00
12,325.0	85.22	179.49	12,051.3	-265.7	-791.1	380.9	12.00	12.00	0.00
12,350.0	88.22	179.49	12,052.7	-290.6	-790.9	405.5	12.00	12.00	0.00
12,364.8	90.00	179.49	12,053.0	-305.4	-790.7	420.1	12.00	12.00	0.00
12,400.0	90.00	179.49	12,053.0	-340.6	-790.4	454.9	0.00	0.00	0.00
12,500.0	90.00	179.49	12,053.0	-440.6	-789.5	553.6	0.00	0.00	0.00
12,600.0	90.00	179.49	12,053.0	-540.6	-788.6	652.4	0.00	0.00	0.00
12,700.0	90.00	179.49	12,053.0	-640.6	-787.7	751.1	0.00	0.00	0.00
12,800.0	90.00	179.49	12,053.0	-740.6	-786.8	849.8	0.00	0.00	0.00
12,900.0	90.00	179.49	12,053.0	-840.6	-785.9	948.6	0.00	0.00	0.00
13,000.0	90.00	179.49	12,053.0	-940.6	-785.0	1,047.3	0.00	0.00	0.00
13,100.0	90.00	179.49	12,053.0	-1,040.6	-784.1	1,146.1	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3581.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3581.0usft
Site:	Jolly Roger 16 State	North Reference:	Grid
Well:	#701H	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	179.49	12,053.0	-1,140.6	-783.2	1,244.8	0.00	0.00	0.00
13,300.0	90.00	179.49	12,053.0	-1,240.6	-782.3	1,343.5	0.00	0.00	0.00
13,400.0	90.00	179.49	12,053.0	-1,340.6	-781.4	1,442.3	0.00	0.00	0.00
13,500.0	90.00	179.49	12,053.0	-1,440.6	-780.5	1,541.0	0.00	0.00	0.00
13,600.0	90.00	179.49	12,053.0	-1,540.6	-779.6	1,639.7	0.00	0.00	0.00
13,700.0	90.00	179.49	12,053.0	-1,640.6	-778.7	1,738.5	0.00	0.00	0.00
13,800.0	90.00	179.49	12,053.0	-1,740.6	-777.8	1,837.2	0.00	0.00	0.00
13,900.0	90.00	179.49	12,053.0	-1,840.5	-777.0	1,936.0	0.00	0.00	0.00
14,000.0	90.00	179.49	12,053.0	-1,940.5	-776.1	2,034.7	0.00	0.00	0.00
14,100.0	90.00	179.49	12,053.0	-2,040.5	-775.2	2,133.4	0.00	0.00	0.00
14,200.0	90.00	179.49	12,053.0	-2,140.5	-774.3	2,232.2	0.00	0.00	0.00
14,300.0	90.00	179.49	12,053.0	-2,240.5	-773.4	2,330.9	0.00	0.00	0.00
14,400.0	90.00	179.49	12,053.0	-2,340.5	-772.5	2,429.7	0.00	0.00	0.00
14,500.0	90.00	179.49	12,053.0	-2,440.5	-771.6	2,528.4	0.00	0.00	0.00
14,600.0	90.00	179.49	12,053.0	-2,540.5	-770.7	2,627.1	0.00	0.00	0.00
14,700.0	90.00	179.49	12,053.0	-2,640.5	-769.8	2,725.9	0.00	0.00	0.00
14,800.0	90.00	179.49	12,053.0	-2,740.5	-768.9	2,824.6	0.00	0.00	0.00
14,900.0	90.00	179.49	12,053.0	-2,840.5	-768.0	2,923.4	0.00	0.00	0.00
15,000.0	90.00	179.49	12,053.0	-2,940.5	-767.1	3,022.1	0.00	0.00	0.00
15,100.0	90.00	179.49	12,053.0	-3,040.5	-766.2	3,120.8	0.00	0.00	0.00
15,200.0	90.00	179.49	12,053.0	-3,140.5	-765.3	3,219.6	0.00	0.00	0.00
15,300.0	90.00	179.49	12,053.0	-3,240.5	-764.4	3,318.3	0.00	0.00	0.00
15,400.0	90.00	179.49	12,053.0	-3,340.5	-763.5	3,417.1	0.00	0.00	0.00
15,500.0	90.00	179.49	12,053.0	-3,440.5	-762.6	3,515.8	0.00	0.00	0.00
15,600.0	90.00	179.49	12,053.0	-3,540.5	-761.7	3,614.5	0.00	0.00	0.00
15,700.0	90.00	179.49	12,053.0	-3,640.5	-760.8	3,713.3	0.00	0.00	0.00
15,800.0	90.00	179.49	12,053.0	-3,740.5	-759.9	3,812.0	0.00	0.00	0.00
15,900.0	90.00	179.49	12,053.0	-3,840.5	-759.0	3,910.8	0.00	0.00	0.00
16,000.0	90.00	179.49	12,053.0	-3,940.5	-758.1	4,009.5	0.00	0.00	0.00
16,100.0	90.00	179.49	12,053.0	-4,040.5	-757.2	4,108.2	0.00	0.00	0.00
16,200.0	90.00	179.49	12,053.0	-4,140.5	-756.3	4,207.0	0.00	0.00	0.00
16,300.0	90.00	179.49	12,053.0	-4,240.5	-755.4	4,305.7	0.00	0.00	0.00
16,400.0	90.00	179.49	12,053.0	-4,340.4	-754.5	4,404.5	0.00	0.00	0.00
16,500.0	90.00	179.49	12,053.0	-4,440.4	-753.6	4,503.2	0.00	0.00	0.00
16,600.0	90.00	179.49	12,053.0	-4,540.4	-752.7	4,601.9	0.00	0.00	0.00
16,700.0	90.00	179.49	12,053.0	-4,640.4	-751.8	4,700.7	0.00	0.00	0.00
16,800.0	90.00	179.49	12,053.0	-4,740.4	-750.9	4,799.4	0.00	0.00	0.00
16,900.0	90.00	179.49	12,053.0	-4,840.4	-750.0	4,898.2	0.00	0.00	0.00
17,000.0	90.00	179.49	12,053.0	-4,940.4	-749.1	4,996.9	0.00	0.00	0.00
17,016.6	90.00	179.49	12,053.0	-4,957.0	-749.0	5,013.3	0.00	0.00	0.00

PBHL (Jolly Rogers 16 State #701H)

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3581.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3581.0usft
Site:	Jolly Roger 16 State	North Reference:	Grid
Well:	#701H	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	11,575.5	172.0	-795.0	446,517.00	804,480.00	32° 13' 28.873 N	103° 28' 56.589 W
FTP (Jolly Rogers 16 St - plan misses target center by 163.4usft at 12017.5usft MD (11932.1 TVD, 12.1 N, -793.6 E) - Point	0.00	0.00	12,053.0	122.0	-795.0	446,467.00	804,480.00	32° 13' 28.379 N	103° 28' 56.593 W
PBHL (Jolly Rogers 16 S - plan hits target center - Point	0.00	0.00	12,053.0	-4,957.0	-749.0	441,388.00	804,526.00	32° 12' 38.118 N	103° 28' 56.526 W



Lea County, NM (NAD 83 NME)

Jolly Roger 16 State #701H

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: #701H

KB = 25 @ 3581.0usft
Northing 446345.00 Easting 805275.00 Latitude 32° 13' 27.109 N Longitude 103° 28' 47.350 W

Azimuths to Grid North
True North: 0.46°
Magnetic North: 6.31°
Magnetic Field
Strength: 47609.6nT
Dip Angle: 65.08°
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

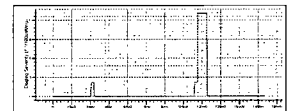
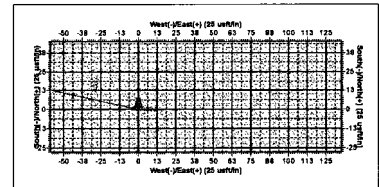
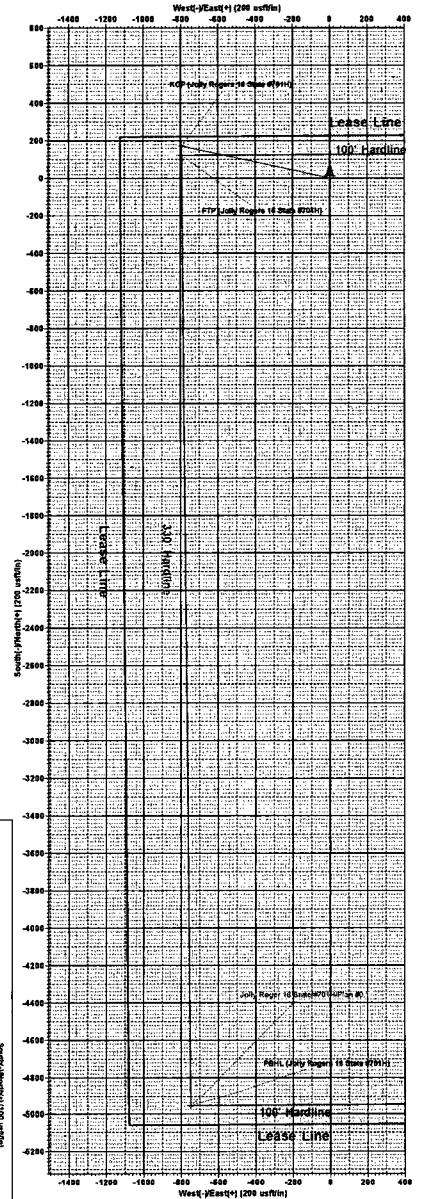
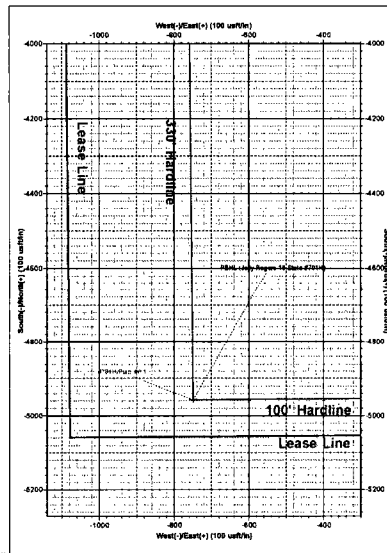
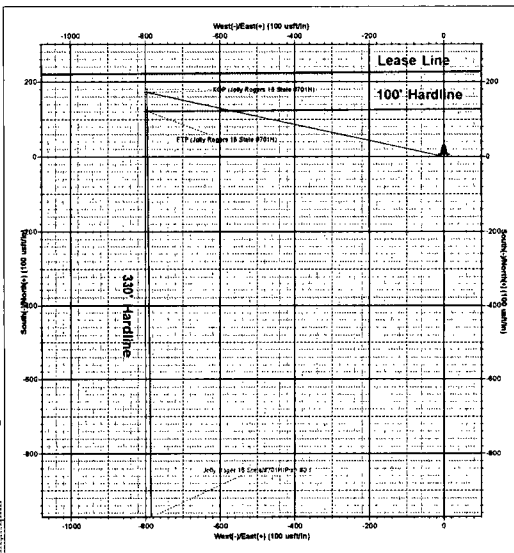
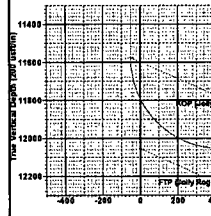
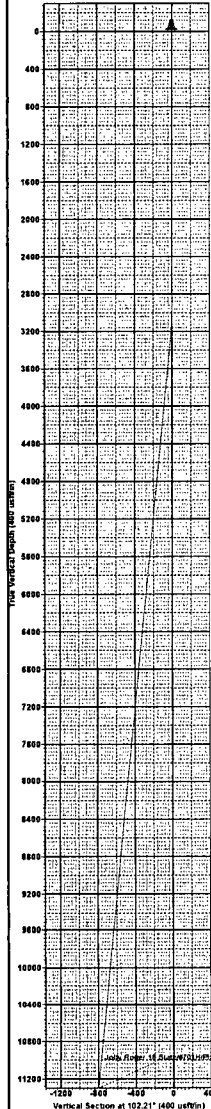
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3280.0	5.60	282.21	3279.6	2.9	-13.4	2.00	282.21	-0.9	
4	11334.8	5.60	282.21	11295.9	169.1	-781.6	0.00	0.00	-50.4	
5	11614.8	0.00	0.00	11575.5	172.0	-795.0	2.00	180.00	-51.3	KOP (Jolly Rogers 16 State #701H)
6	12364.8	90.00	179.49	12053.0	-305.4	-790.7	12.00	179.49	420.1	
7	17016.6	90.00	179.49	12053.0	-4957.0	-749.0	0.00	0.00	5013.3	PBHL (Jolly Rogers 16 State #701H)

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 #701H)	11575.5	172.0	-795.0	446517.00	804480.00
FTP (Jolly Rogers 16 State #701H)	12053.0	122.0	-795.0	446467.00	804480.00
PBHL (Jolly Rogers 16 State #701H)	12053.0	-4957.0	-749.0	441388.00	804526.00



Checked by: [Name]
Date: [Date]