

HOBBS OCD

MAR 12 2019

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Jolly Roger 16 State

#706H

OH

Design: OH

Midland PVA

18 January, 2019



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Jolly Roger 16 State Well: #706H Wellbore: OH Design: OH	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well #706H KB = 25 @ 3561.0usft KB = 25 @ 3561.0usft Grid Minimum Curvature EDM 5000.14
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Project Lea County, NM (NAD 83 NME)			
Map System: US State Plane 1983 Geo Datum: North American Datum 1983 Map Zone: New Mexico Eastern Zone	System Datum: Mean Sea Level		

Site Jolly Roger 16 State			
Site Position: From: Map Position Uncertainty: 0.0 usft	Northing: 445,511.00 usft Easting: 804,489.00 usft Slot Radius: 13-3/16 "	Latitude: 32° 13' 18.918 N Longitude: 103° 28' 56.577 W Grid Convergence: 0.45 °	

Well #706H			
Well Position +N-S 0.0 usft +E-W 0.0 usft Position Uncertainty 0.0 usft	Northing: 441,904.00 usft Easting: 804,811.00 usft Wellhead Elevation: usft	Latitude: 32° 12' 43.202 N Longitude: 103° 28' 53.161 W Ground Level: 3,536.0 usft	

Wellbore OH			
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	11/27/2018	6.75
			60.05
			47,780.80958644

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
			(°)
			4.17

Survey Program Date 1/18/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
182.0	17,064.0	Newsco MWD (OH)	MWD
			OWSG MWD - Standard



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Site:	Jolly Roger 16 State	MD Reference:	KB = 25 @ 3561.0usft
Well:	#706H	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
182.0	0.70	332.70	182.0	1.0	-0.5	0.38	0.38	0.00	0.0	0.0	0.0
365.0	0.70	339.90	365.0	3.0	-1.4	0.05	0.00	3.93	0.0	0.0	0.0
548.0	0.30	337.20	548.0	4.5	-2.0	0.22	-0.22	-1.49	0.0	0.0	0.0
706.0	0.30	342.60	706.0	5.3	-2.3	0.02	0.00	3.37	0.0	0.0	0.0
893.0	0.40	357.20	893.0	6.4	-2.4	0.07	0.05	7.81	0.0	0.0	0.0
1,082.0	0.40	6.80	1,082.0	7.7	-2.4	0.04	0.00	5.08	0.0	0.0	0.0
1,269.0	0.30	341.70	1,269.0	8.8	-2.5	0.10	-0.05	-13.42	0.0	0.0	0.0
1,445.0	1.00	307.90	1,444.9	10.2	-3.8	0.44	0.40	-19.20	0.0	0.0	0.0
1,633.0	1.10	186.50	1,632.9	9.4	-5.3	0.97	0.05	-64.57	0.0	0.0	0.0
1,819.0	3.10	149.10	1,818.8	3.3	-2.9	1.25	1.08	-20.11	0.0	0.0	0.0
2,006.0	4.60	145.30	2,005.4	-7.2	3.9	0.81	0.80	-2.03	0.0	0.0	0.0
2,194.0	4.20	144.40	2,192.8	-19.0	12.2	0.22	-0.21	-0.48	0.0	0.0	0.0
2,380.0	5.00	144.40	2,378.2	-31.1	20.9	0.43	0.43	0.00	0.0	0.0	0.0
2,567.0	5.10	144.10	2,564.5	-44.4	30.5	0.06	0.05	-0.16	0.0	0.0	0.0
2,755.0	4.70	143.90	2,751.8	-57.4	40.0	0.21	-0.21	-0.11	0.0	0.0	0.0
2,942.0	5.00	144.50	2,938.1	-70.3	49.2	0.16	0.16	0.32	0.0	0.0	0.0
3,129.0	5.10	143.80	3,124.4	-83.6	58.8	0.06	0.05	-0.37	0.0	0.0	0.0
3,316.0	4.80	140.70	3,310.7	-96.4	68.7	0.21	-0.16	-1.66	0.0	0.0	0.0
3,503.0	5.10	146.10	3,497.0	-109.3	78.3	0.30	0.16	2.89	0.0	0.0	0.0
3,691.0	5.30	142.60	3,684.2	-123.2	88.2	0.20	0.11	-1.86	0.0	0.0	0.0
3,879.0	3.30	133.30	3,871.7	-133.8	97.5	1.12	-1.06	-4.95	0.0	0.0	0.0
4,067.0	5.40	146.60	4,059.2	-144.9	106.3	1.23	1.12	7.07	0.0	0.0	0.0
4,253.0	5.00	142.20	4,244.4	-158.6	116.0	0.30	-0.22	-2.37	0.0	0.0	0.0
4,441.0	5.20	132.20	4,431.7	-170.8	127.4	0.48	0.11	-5.32	0.0	0.0	0.0
4,628.0	4.20	117.20	4,618.0	-179.6	139.7	0.84	-0.53	-8.02	0.0	0.0	0.0
4,815.0	7.50	146.60	4,804.1	-192.9	152.6	2.33	1.76	15.72	0.0	0.0	0.0



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #706H
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:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Survey											
MD (usft)	Incl (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,002.0	8.40	154.30	4,989.3	-215.4	165.2	0.74	0.48	4.12	0.0	0.0	
5,190.0	7.60	153.20	5,175.4	-238.9	176.8	0.43	-0.43	-0.59	0.0	0.0	
5,378.0	6.20	154.00	5,362.1	-259.1	186.8	0.75	-0.74	0.43	0.0	0.0	
5,565.0	6.10	151.00	5,548.0	-278.9	196.1	0.18	-0.05	-1.60	0.0	0.0	
5,753.0	5.60	149.60	5,735.0	-293.5	205.6	0.28	-0.27	-0.74	0.0	0.0	
5,940.0	8.70	153.70	5,920.5	-314.1	216.4	1.68	1.66	2.19	0.0	0.0	
6,127.0	10.90	152.10	6,104.8	-342.4	231.0	1.19	1.18	-0.86	0.0	0.0	
6,315.0	10.50	147.80	6,289.5	-372.6	248.4	0.47	-0.21	-2.29	0.0	0.0	
6,502.0	11.60	145.50	6,473.1	-402.5	268.2	0.63	0.59	-1.23	0.0	0.0	
6,690.0	11.90	145.00	6,657.1	-434.0	290.0	0.17	0.16	-0.27	0.0	0.0	
6,877.0	11.90	142.50	6,840.1	-465.0	312.8	0.28	0.00	-1.34	0.0	0.0	
7,064.0	11.00	140.80	7,023.4	-494.2	335.8	0.51	-0.48	-0.91	0.0	0.0	
7,252.0	10.00	140.00	7,208.2	-520.6	357.6	0.54	-0.53	-0.43	0.0	0.0	
7,440.0	9.40	138.50	7,393.6	-544.6	378.3	0.35	-0.32	-0.80	0.0	0.0	
7,628.0	6.00	173.70	7,579.9	-565.9	389.5	3.01	-1.81	18.72	-2.2	-5.2	
7,815.0	4.70	199.60	7,766.1	-582.8	388.0	1.45	-0.70	13.85	-14.5	-10.1	
8,002.0	1.60	320.40	7,952.9	-588.0	383.8	3.04	-1.66	64.60	-0.9	23.8	
8,190.0	1.40	317.40	8,140.9	-584.3	380.6	0.11	-0.11	-1.60	-5.8	23.1	
8,378.0	1.20	309.30	8,328.8	-581.3	377.5	0.14	-0.11	-4.31	-11.8	21.4	
8,565.0	1.30	290.90	8,515.8	-579.4	374.0	0.22	0.05	-9.84	-20.6	16.1	
8,752.0	1.20	281.60	8,702.7	-578.2	370.1	0.12	-0.05	-4.97	-25.6	12.6	
8,940.0	1.60	5.40	8,890.7	-575.2	368.4	1.01	0.21	44.57	7.4	27.5	
9,128.0	1.20	348.90	9,078.6	-570.6	368.3	0.30	-0.21	-8.78	-4.3	26.6	
9,315.0	1.00	331.20	9,265.6	-567.3	367.1	0.21	-0.11	-9.47	-14.5	22.7	
9,503.0	1.60	322.40	9,453.6	-563.8	364.7	0.34	0.32	-4.68	-20.8	19.3	
9,690.0	2.30	298.10	9,640.5	-559.9	359.9	0.56	0.37	-12.46	-31.5	8.4	
9,878.0	2.40	134.40	9,828.4	-560.8	359.4	2.48	0.05	-87.61	26.5	-17.0	



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Site:	Jolly Roger 16 State	MD Reference:	KB = 25 @ 3561.0usft
Well:	#706H	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)	
10,064.0	1.00	174.20	10,014.3	-565.1	362.3	0.94	-0.75	21.40	4.1	-26.4	
10,252.0	1.20	121.60	10,202.3	-567.8	364.2	0.53	0.11	-27.98	19.1	-13.9	
10,440.0	0.30	126.70	10,390.3	-569.1	366.2	0.48	-0.48	2.71	13.9	-15.2	
10,628.0	0.40	208.30	10,578.3	-570.0	368.3	0.25	0.05	43.40	-13.7	-14.1	
10,815.0	0.20	232.30	10,765.3	-570.8	365.8	0.12	-0.11	12.83	-18.5	-5.8	
11,002.0	0.60	101.20	10,952.3	-571.2	366.5	0.40	0.21	-70.11	14.4	-10.8	
11,189.0	1.00	83.00	11,139.2	-571.2	369.0	0.25	0.21	-9.73	13.4	-6.8	
11,377.0	0.70	10.80	11,327.2	-569.8	370.9	0.55	-0.16	-38.40	9.3	7.7	
11,564.0	1.00	316.30	11,514.2	-567.5	370.0	0.44	0.16	-29.14	-1.8	10.7	
11,672.0	1.10	303.70	11,622.2	-566.3	368.5	0.23	0.09	-11.67	-5.3	9.7	
11,766.0	13.50	15.00	11,715.3	-555.1	370.6	14.03	13.19	75.85	-1.5	8.1	
11,860.0	29.50	17.40	11,802.5	-522.2	380.4	17.04	17.02	2.55	-18.5	2.9	
11,954.0	42.30	14.40	11,878.5	-469.3	395.2	13.74	13.62	-3.19	-40.9	-9.2	
12,048.0	49.40	4.80	11,944.0	-402.9	406.1	10.51	7.55	-10.21	-56.8	-25.9	
12,142.0	50.00	357.60	12,004.8	-331.3	407.6	5.87	0.64	-7.66	-58.3	-32.9	
12,237.0	57.80	355.40	12,060.8	-254.8	402.8	8.42	8.21	-2.32	-47.7	-29.3	
12,331.0	66.50	357.20	12,104.6	-171.9	397.5	9.41	9.26	1.91	-31.2	-23.7	
12,425.0	77.00	358.70	12,134.0	-82.8	394.4	11.27	11.17	1.60	-11.0	-20.8	
12,518.0	91.30	0.30	12,143.5	9.4	393.6	15.47	15.38	1.72	0.4	-20.7	
12,612.0	87.90	355.70	12,144.1	103.3	390.3	6.08	-3.62	-4.89	3.5	-18.3	
12,707.0	88.70	356.30	12,147.0	198.1	383.7	1.05	0.84	0.63	8.7	-12.5	
12,801.0	88.80	351.80	12,148.2	291.5	373.9	4.93	1.17	-4.79	12.3	-3.6	
12,895.0	89.90	356.40	12,148.4	385.0	364.3	4.89	0.11	4.89	14.9	5.2	
12,989.0	88.10	358.30	12,150.1	478.9	359.9	2.78	-1.91	2.02	19.0	8.7	
13,083.0	85.10	358.00	12,155.6	572.6	356.9	3.21	-3.19	-0.32	26.9	11.0	
13,177.0	84.90	357.80	12,163.8	666.2	353.5	0.30	-0.21	-0.21	37.5	13.6	
13,272.0	89.00	0.90	12,168.9	761.1	352.4	5.41	4.32	3.28	44.9	13.7	



Midland PVA

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Site: Jolly Roger 16 State		MD Reference:				KB = 25 @ 3561.0usft	
Well: #706H		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)	
13,366.0	92.40	2.20	12,167.7	855.0	354.9	3.87	3.62	1.38	46.4	10.4	
13,460.0	91.30	2.90	12,164.7	946.8	359.1	1.39	-1.17	0.74	45.9	5.4	
13,555.0	90.30	2.50	12,163.4	1,043.7	363.6	1.13	-1.05	-0.42	47.2	0.0	
13,647.0	96.50	1.50	12,157.9	1,135.5	366.8	6.83	6.74	-1.09	44.3	-4.0	
13,742.0	99.60	1.80	12,144.6	1,229.5	369.5	3.28	3.26	0.32	33.6	-7.6	
13,836.0	97.10	0.30	12,131.0	1,322.5	371.2	3.09	-2.66	-1.60	22.5	-10.2	
13,930.0	97.50	0.80	12,119.0	1,415.7	372.1	0.68	0.43	0.53	13.1	-11.9	
14,024.0	95.10	359.40	12,108.7	1,509.1	372.3	2.95	-2.55	-1.49	5.4	-12.9	
14,118.0	95.10	359.20	12,100.4	1,602.7	371.1	0.21	0.00	-0.21	-0.4	-12.6	
14,212.0	93.60	359.50	12,093.2	1,696.5	370.1	1.63	-1.60	0.32	-4.9	-12.4	
14,306.0	89.80	357.80	12,090.4	1,790.4	367.8	4.43	-4.04	-1.81	-5.1	-11.0	
14,399.0	89.20	358.00	12,091.3	1,883.3	364.4	0.68	-0.65	0.22	-1.7	-8.4	
14,493.0	90.60	358.20	12,091.4	1,977.2	361.3	1.50	1.49	0.21	1.0	-8.1	
14,587.0	88.70	358.80	12,091.2	2,071.2	358.9	1.15	-0.96	0.64	3.4	-4.5	
14,681.0	89.50	357.90	12,091.8	2,165.2	356.2	0.98	-0.21	-0.96	6.6	-2.7	
14,775.0	89.80	356.70	12,092.4	2,259.1	353.4	0.91	0.32	0.85	9.5	-0.7	
14,869.0	90.60	356.60	12,092.1	2,353.1	351.2	0.86	0.85	-0.11	10.9	0.7	
14,962.0	91.70	359.80	12,090.2	2,446.1	349.9	1.75	1.18	1.29	10.7	1.1	
15,056.0	88.40	359.50	12,090.1	2,540.1	349.3	3.53	-3.51	-0.32	12.4	0.8	
15,150.0	88.70	359.90	12,092.5	2,634.0	348.8	0.53	0.32	0.43	16.5	0.5	
15,243.0	90.10	1.30	12,093.5	2,727.0	349.8	2.13	1.51	1.51	19.3	-1.3	
15,336.0	90.60	2.10	12,092.9	2,820.0	352.5	1.01	0.54	0.86	19.4	-4.9	
15,430.0	91.00	0.80	12,091.6	2,913.9	354.9	1.45	0.43	-1.38	18.1	-8.1	
15,523.0	93.30	0.90	12,088.1	3,006.8	356.3	2.48	2.47	0.11	14.6	-10.3	
15,617.0	90.80	359.80	12,084.8	3,100.8	356.9	2.91	-2.66	-1.17	11.2	-11.8	
15,710.0	87.80	356.60	12,085.9	3,193.7	353.9	4.72	-3.23	-3.44	12.3	-9.7	
15,804.0	87.40	356.50	12,089.8	3,287.4	348.3	0.44	-0.43	-0.11	16.2	-4.9	



Midland PVA

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Site:	Jolly Roger 16 State	MD Reference:	KB = 25 @ 3561.0usft
Well:	#706H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
15,898.0	88.30	357.40	12,093.4	3,381.2	343.3	1.35	0.96	0.96	19.7	-0.7
15,991.0	88.80	356.70	12,095.7	3,474.1	338.5	0.92	0.54	-0.75	22.0	3.2
16,085.0	90.50	356.60	12,096.3	3,567.9	333.0	1.81	1.81	-0.11	22.6	7.9
16,179.0	90.20	357.90	12,095.7	3,661.8	328.5	1.42	-0.32	1.38	22.0	11.5
16,273.0	93.40	358.60	12,092.8	3,755.7	325.6	3.48	3.40	0.74	19.0	13.6
16,366.0	91.70	359.90	12,088.6	3,848.6	324.4	2.30	-1.83	1.40	14.8	14.0
16,460.0	88.20	0.40	12,088.7	3,942.6	324.7	3.76	-3.72	0.53	14.9	12.9
16,554.0	89.00	0.20	12,091.0	4,036.6	325.1	0.88	0.85	-0.21	17.1	11.5
16,647.0	87.50	0.30	12,093.8	4,129.5	325.6	1.62	-1.61	0.11	20.0	10.3
16,741.0	88.40	0.10	12,097.2	4,223.4	325.9	0.98	0.96	-0.21	23.3	9.1
16,834.0	87.80	0.00	12,100.3	4,316.4	326.0	0.65	-0.65	-0.11	26.3	8.2
16,928.0	87.00	359.50	12,104.5	4,410.3	325.6	1.00	-0.85	-0.53	30.6	7.8
17,004.0	90.80	0.80	12,106.0	4,486.3	325.8	5.28	5.00	1.71	32.0	6.9
17,064.0	90.80	0.80	12,105.2	4,546.3	326.6	0.00	0.00	0.00	31.2	5.5

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
11,682.0	11,632.2	-566.1	368.3	KOP, MD:11682.0', TVD:11632.2', N/S:-566.1', E/W:368.3', INC:1.98
11,882.8	11,822.0	-511.0	383.8	FTP Crossing, MD:11882.8', TVD:11822.0', N/S:-511.0', E/W:383.8', INC:32.80
17,004.0	12,106.0	4,486.3	325.8	Last MWD Survey (MD=17004.0')
17,064.0	12,105.2	4,546.3	326.6	Projection to Bit (MD=17064.0')

Checked By: _____ Approved By: _____ Date: _____



Lea County, NM (NAD 83 NME)

Jolly Roger 16 State #706H

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: #706H

KB = 25 @ 3561.0uoft 3538.0
Northing 441904.00 Easting 804811.00 Latitude 32° 12' 43.202 N Longitude 103° 28' 53.161 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	7440.0	9.40	138.50	7393.6	-544.6	378.3	0.00	0.00	-515.6	
2	7930.0	0.43	296.88	7881.5	-573.8	403.2	2.00	179.07	-543.0	
3	11695.0	0.43	296.88	11646.3	-561.0	378.1	0.00	0.00	-532.1	
4	11716.5	0.00	0.00	11667.8	-561.0	378.0	2.00	180.00	-532.1	
5	12478.8	91.48	359.49	12145.1	-71.4	373.8	12.00	359.49	-44.1	TGT#1(Jolly Rogers 16 State #706H)
6	13308.7	91.46	359.49	12124.0	758.4	366.1	0.00	0.00	783.0	TGT#2(Jolly Rogers 16 State #706H)
7	13314.8	91.58	359.49	12123.8	784.5	366.1	2.00	0.00	789.1	TGT#3(Jolly Rogers 16 State #706H)
8	14760.1	91.58	359.49	12084.0	2209.2	353.1	0.00	0.00	2229.0	PBHL(Jolly Rogers 16 State #706H)
9	14785.6	91.07	359.49	12083.4	2234.7	352.9	2.00	180.00	2254.4	
10	15289.9	91.07	359.49	12074.0	2736.9	348.3	0.00	0.00	2757.0	
11	15344.2	89.98	359.49	12073.5	2793.2	347.9	2.00	-180.00	2811.1	
12	17108.1	89.98	359.49	12074.0	4557.0	332.0	0.00	0.00	4569.1	

To convert a Magnetic Direction to a Grid Direction, Add 6.30°
To convert a Magnetic Direction to a True Direction, Add 6.76° East
To convert a True Direction to a Grid Direction, Subtract 6.46°

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 #706H)	11667.8	-261.0	378.0	441343.00	805189.00
PBHL (Jolly Rogers 16 State #706H)	12074.0	4557.0	332.0	446461.00	805145.00
TGT#1(Jolly Rogers 16 State #706H)	12074.0	2738.9	348.3	444642.90	805159.34
TGT#2(Jolly Rogers 16 State #706H)	12084.0	2209.2	353.1	444113.20	805164.10
TGT#3(Jolly Rogers 16 State #706H)	12124.0	758.4	366.1	442662.40	805177.14
FTP (Jolly Rogers 16 State #706H)	12144.0	-511.0	378.0	441383.00	805189.00

