

Permit Information:

30-025-42159

Well Name: Jolly Roger 16 State No. 503H

Location:

SL: 150' FNL & 1016' FWL, Section 16, T-24-S, R-34-E, Lea Co., N.M.

BHL: 230' FSL & 1016' FWL, Section 16, T-24-S, R-34-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 1240'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' - 5200'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-15,636'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1240'	600	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,200'	900	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface)
	225	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
15,636'	375	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 (TOC @ 4700')
	400	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1300	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1240'	Fresh - Gel	8.6-8.8	28-34	N/c
1240' - 5,200'	Brine	10.0-10.2	28-34	N/c
5,200' - 10,261'	Cut Brine	8.4-9.0	28-34	N/c
10,261' - 15,636' Lateral	Cut Brine	9.0-9.5	40-42	8-10

OCT 01 2014

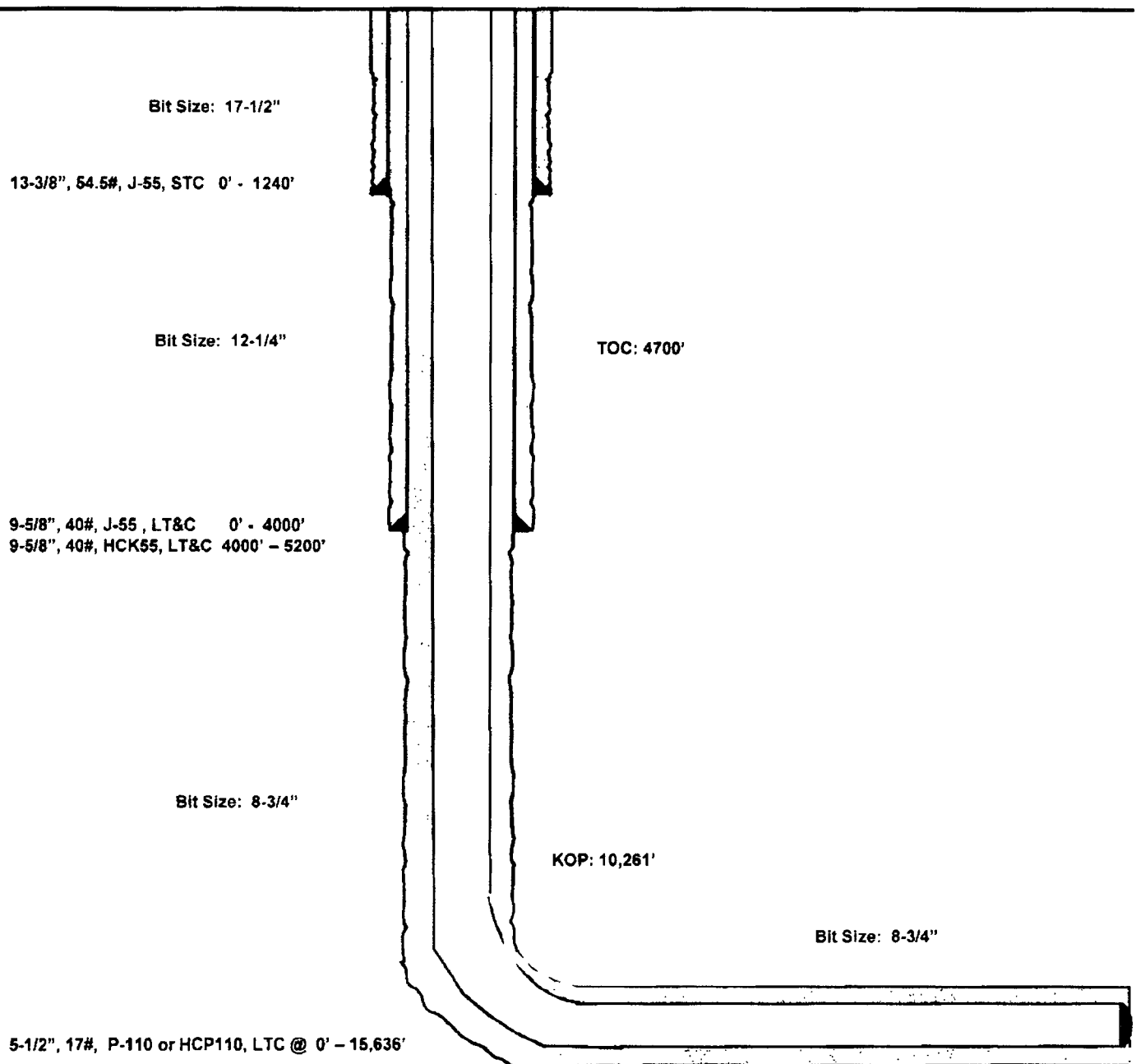
**Jolly Roger 16 State #503H
Lea County, New Mexico**

**150' FNL
1016' FWL
Section 16
T-24-S, R-34-E**

Proposed Wellbore

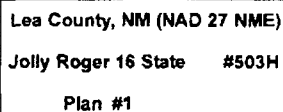
API: 30-025-

**KB: 3,582'
GL: 3,557'**



Lateral: 15,636' MD, 10,880' TVD

**BH Location: 230' FSL & 1016' FWL
Section 16
T-24-S, R-34-E**



Geodetic System: US State Plane 1927 [Exact solution]
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



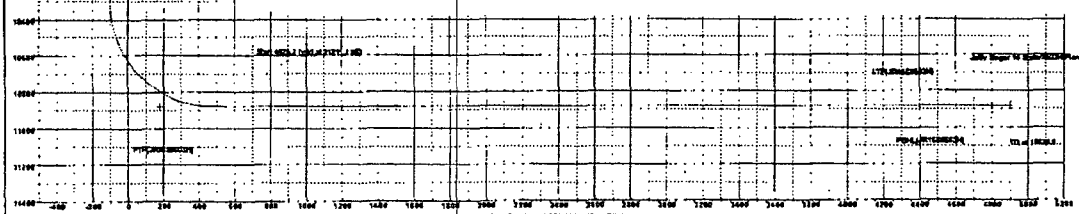
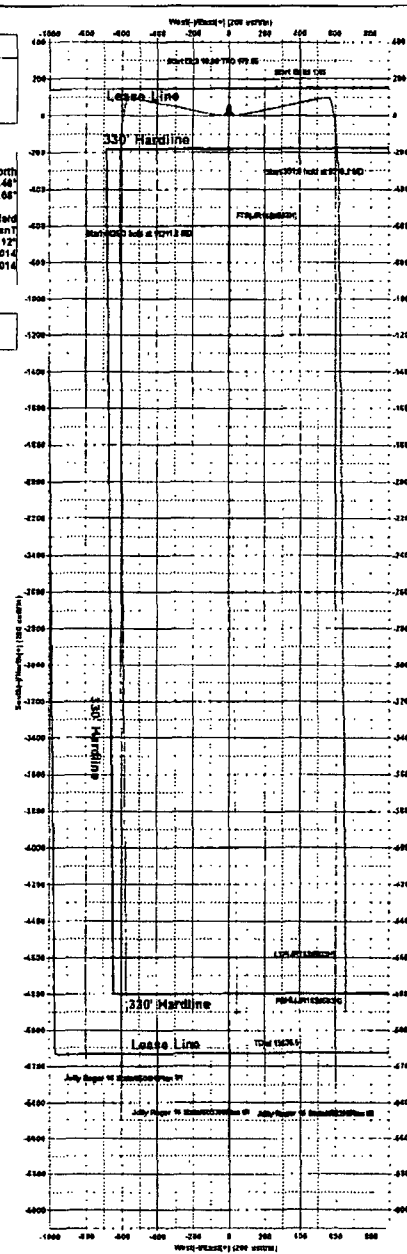
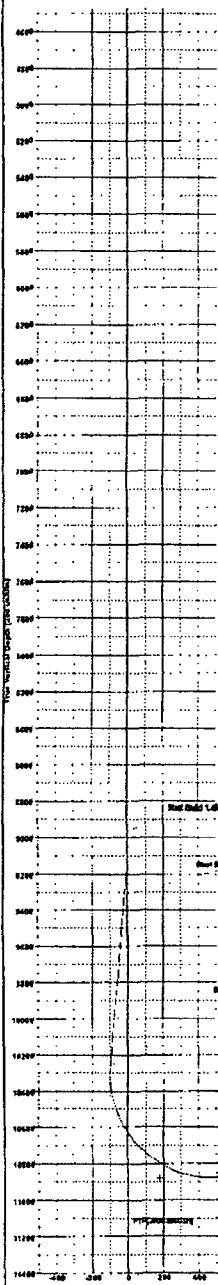
Azimuths to Grid North
 True North: -3.46°
 Magnetic North: 6.68°
 Magnetic Field
 Strength: 48295.6nT
 Dip Angle: 60.12°
 Date: 9/30/2014
 Model: IGRF201014

To convert a Magnetic Direction to a Grid Direction, Add 6.64°
To convert a Magnetic Direction to a True Direction, Add 7.14° E

WELL DETAILS Jolly Roger 16 State #502H					
145.5	151.4	146382.00	Ground Level	3551.0	Spot
0.0	0.0		Easting	783982.0000	
			Latitude	13 27 42.0 N	
				103° 78' 46.295 W	

SECTION DETAILS											
Sec	MD	Inc	Alt	TVD	HW.S	+E/W	Org	Tface	V-Sect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	0960.0	0.00	0.09	9960.0	0.0	0.0	0.00	0.00	0.0		
3	9210.1	0.00	389.64	9329.7	16.0	-0.1	1.40	389.64	-16.0		
4	10241.1	0.00	238.84	10257.1	97.9	-0.1	8.00	0.00	47.9		
5	11211.2	90.00	179.49	10830.0	-47.9	0.4	10.00	179.49	47.9		
6	16626.6	90.00	178.43	10850.0	-48.0	0.0	44.0	0.00	682.6	PBHLJRI16626(24)	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	N/E S	Northing	Easting	Shape
FTPR_JR185902(H)	10882.0	-18.0	2.0	753834.94	Point
LTPR_JR185982(H)	10880.0	-4.780	43.0	744186.00	Point
PBML_JR185900(H)	10890.0	-8890.0	44.0	744164.00	Point



HOBBS OCD

SEP 30 2014

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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Jolly Roger 16 State

#503H

OH

Plan: Plan #1

Standard Planning Report

30 September, 2014



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Jolly Roger 16 State
Well: #503H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #503H
TVD Reference: KB = 25 @ 3582.0usft
MD Reference: KB = 25 @ 3582.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Jolly Roger 16 State			
Site Position:		Northing:	446,370.00 usft	Latitude: 32° 13' 27.402 N
From: Map		Easting:	765,216.00 usft	Longitude: 103° 28' 32.531 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.46 °

Well	#503H			
Well Position	+N/-S	-8.0 usft	Northing:	446,362.00 usft
	+E/-W	-1,234.0 usft	Easting:	763,982.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,557.0 usft

Wellbore	OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)
	IGRF201014	9/30/2014	7.14	60.12
				Field Strength (nT) 48,296

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	179.49

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	
8,965.0	0.00	0.00	8,965.0	0.0	0.0	0.00	0.00	0.00	0.00	
9,310.2	5.00	359.64	9,309.7	15.0	-0.1	1.45	1.45	0.00	359.64	
10,261.2	5.00	359.64	10,257.1	97.9	-0.6	0.00	0.00	0.00	0.00	
11,211.2	90.00	179.49	10,880.0	-472.9	4.6	10.00	8.95	18.93	179.85	
15,636.5	90.00	179.49	10,880.0	-4,898.0	44.0	0.00	0.00	0.00	0.00	PBHL(JR16S#503H)



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



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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)
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,965.0	0.00	0.00	8,965.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.51	359.64	9,000.0	0.2	0.0	-0.2	1.45	1.45	0.00
9,100.0	1.95	359.64	9,100.0	2.3	0.0	-2.3	1.45	1.45	0.00
9,200.0	3.40	359.64	9,199.9	7.0	0.0	-7.0	1.45	1.45	0.00
9,300.0	4.85	359.64	9,299.6	14.2	-0.1	-14.2	1.45	1.45	0.00
9,310.2	5.00	359.64	9,309.7	15.0	-0.1	-15.0	1.45	1.45	0.00
9,400.0	5.00	359.64	9,399.2	22.9	-0.1	-22.9	0.00	0.00	0.00
9,500.0	5.00	359.64	9,498.8	31.6	-0.2	-31.6	0.00	0.00	0.00
9,600.0	5.00	359.64	9,598.5	40.3	-0.3	-40.3	0.00	0.00	0.00
9,700.0	5.00	359.64	9,698.1	49.0	-0.3	-49.0	0.00	0.00	0.00
9,800.0	5.00	359.64	9,797.7	57.7	-0.4	-57.7	0.00	0.00	0.00
9,900.0	5.00	359.64	9,897.3	66.4	-0.4	-66.4	0.00	0.00	0.00
10,000.0	5.00	359.64	9,996.9	75.1	-0.5	-75.1	0.00	0.00	0.00
10,100.0	5.00	359.64	10,096.6	83.8	-0.5	-83.8	0.00	0.00	0.00
10,200.0	5.00	359.64	10,196.2	92.6	-0.6	-92.6	0.00	0.00	0.00
10,261.2	5.00	359.64	10,257.1	97.9	-0.6	-97.9	0.00	0.00	0.00
10,300.0	1.12	0.16	10,295.9	99.9	-0.6	-100.0	10.00	-10.00	1.34
10,350.0	3.88	179.30	10,345.9	98.7	-0.6	-98.7	10.00	5.54	358.27



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Jolly Roger 16 State
Well: #503H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #503H
TVD Reference: KB = 25 @ 3582.0usft
MD Reference: KB = 25 @ 3582.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
10,400.0	8.88	179.41	10,395.5	93.2	-0.5	-93.2	10.00	10.00	0.22
10,450.0	13.88	179.44	10,444.5	83.3	-0.4	-83.3	10.00	10.00	0.06
10,500.0	18.88	179.45	10,492.5	69.2	-0.3	-69.2	10.00	10.00	0.03
10,550.0	23.88	179.46	10,539.0	51.0	-0.1	-51.0	10.00	10.00	0.02
10,600.0	28.88	179.47	10,583.8	28.8	0.1	-28.8	10.00	10.00	0.01
10,650.0	33.88	179.47	10,626.5	2.8	0.3	-2.8	10.00	10.00	0.01
10,700.0	38.88	179.47	10,666.7	-26.9	0.6	26.9	10.00	10.00	0.01
10,750.0	43.88	179.48	10,704.2	-59.9	0.9	59.9	10.00	10.00	0.01
10,800.0	48.88	179.48	10,738.7	-96.1	1.2	96.1	10.00	10.00	0.00
10,850.0	53.88	179.48	10,769.9	-135.2	1.6	135.2	10.00	10.00	0.00
10,900.0	58.88	179.48	10,797.6	-176.8	2.0	176.8	10.00	10.00	0.00
10,942.3	63.11	179.48	10,818.1	-213.8	2.3	213.8	10.00	10.00	0.00
FTP(JR16S#503H)									
10,950.0	63.88	179.48	10,821.5	-220.7	2.3	220.7	10.00	10.00	0.00
11,000.0	68.88	179.48	10,841.5	-266.5	2.8	266.5	10.00	10.00	0.00
11,050.0	73.88	179.49	10,857.5	-313.8	3.2	313.9	10.00	10.00	0.00
11,100.0	78.88	179.49	10,869.3	-362.4	3.6	362.4	10.00	10.00	0.00
11,150.0	83.88	179.49	10,876.7	-411.8	4.1	411.9	10.00	10.00	0.00
11,200.0	88.88	179.49	10,879.9	-461.7	4.5	461.7	10.00	10.00	0.00
11,211.2	90.00	179.49	10,880.0	-472.9	4.6	472.9	10.00	10.00	0.00
11,300.0	90.00	179.49	10,880.0	-561.7	5.4	561.7	0.00	0.00	0.00
11,400.0	90.00	179.49	10,880.0	-661.7	6.3	661.7	0.00	0.00	0.00
11,500.0	90.00	179.49	10,880.0	-761.7	7.2	761.7	0.00	0.00	0.00
11,600.0	90.00	179.49	10,880.0	-861.7	8.1	861.7	0.00	0.00	0.00
11,700.0	90.00	179.49	10,880.0	-961.7	9.0	961.7	0.00	0.00	0.00
11,800.0	90.00	179.49	10,880.0	-1,061.7	9.8	1,061.7	0.00	0.00	0.00
11,900.0	90.00	179.49	10,880.0	-1,161.7	10.7	1,161.7	0.00	0.00	0.00
12,000.0	90.00	179.49	10,880.0	-1,261.7	11.6	1,261.7	0.00	0.00	0.00
12,100.0	90.00	179.49	10,880.0	-1,361.7	12.5	1,361.7	0.00	0.00	0.00
12,200.0	90.00	179.49	10,880.0	-1,461.7	13.4	1,461.7	0.00	0.00	0.00
12,300.0	90.00	179.49	10,880.0	-1,561.7	14.3	1,561.7	0.00	0.00	0.00
12,400.0	90.00	179.49	10,880.0	-1,661.7	15.2	1,661.7	0.00	0.00	0.00
12,500.0	90.00	179.49	10,880.0	-1,761.7	16.1	1,761.7	0.00	0.00	0.00
12,600.0	90.00	179.49	10,880.0	-1,861.7	17.0	1,861.7	0.00	0.00	0.00
12,700.0	90.00	179.49	10,880.0	-1,961.7	17.9	1,961.7	0.00	0.00	0.00
12,800.0	90.00	179.49	10,880.0	-2,061.7	18.8	2,061.7	0.00	0.00	0.00
12,900.0	90.00	179.49	10,880.0	-2,161.7	19.6	2,161.7	0.00	0.00	0.00
13,000.0	90.00	179.49	10,880.0	-2,261.6	20.5	2,261.7	0.00	0.00	0.00
13,100.0	90.00	179.49	10,880.0	-2,361.6	21.4	2,361.7	0.00	0.00	0.00
13,200.0	90.00	179.49	10,880.0	-2,461.6	22.3	2,461.7	0.00	0.00	0.00
13,300.0	90.00	179.49	10,880.0	-2,561.6	23.2	2,561.7	0.00	0.00	0.00
13,400.0	90.00	179.49	10,880.0	-2,661.6	24.1	2,661.7	0.00	0.00	0.00
13,500.0	90.00	179.49	10,880.0	-2,761.6	25.0	2,761.7	0.00	0.00	0.00
13,600.0	90.00	179.49	10,880.0	-2,861.6	25.9	2,861.7	0.00	0.00	0.00
13,700.0	90.00	179.49	10,880.0	-2,961.6	26.8	2,961.7	0.00	0.00	0.00
13,800.0	90.00	179.49	10,880.0	-3,061.6	27.7	3,061.7	0.00	0.00	0.00
13,900.0	90.00	179.49	10,880.0	-3,161.6	28.5	3,161.7	0.00	0.00	0.00
14,000.0	90.00	179.49	10,880.0	-3,261.6	29.4	3,261.7	0.00	0.00	0.00
14,100.0	90.00	179.49	10,880.0	-3,361.6	30.3	3,361.7	0.00	0.00	0.00
14,200.0	90.00	179.49	10,880.0	-3,461.6	31.2	3,461.7	0.00	0.00	0.00
14,300.0	90.00	179.49	10,880.0	-3,561.6	32.1	3,561.7	0.00	0.00	0.00
14,400.0	90.00	179.49	10,880.0	-3,661.6	33.0	3,661.7	0.00	0.00	0.00
14,500.0	90.00	179.49	10,880.0	-3,761.6	33.9	3,761.7	0.00	0.00	0.00



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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
14,600.0	90.00	179.49	10,880.0	-3,861.6	34.8	3,861.7	0.00	0.00	0.00
14,700.0	90.00	179.49	10,880.0	-3,961.6	35.7	3,961.7	0.00	0.00	0.00
14,800.0	90.00	179.49	10,880.0	-4,061.6	36.6	4,061.7	0.00	0.00	0.00
14,900.0	90.00	179.49	10,880.0	-4,161.6	37.4	4,161.7	0.00	0.00	0.00
15,000.0	90.00	179.49	10,880.0	-4,261.6	38.3	4,261.7	0.00	0.00	0.00
15,100.0	90.00	179.49	10,880.0	-4,361.6	39.2	4,361.7	0.00	0.00	0.00
15,200.0	90.00	179.49	10,880.0	-4,461.6	40.1	4,461.7	0.00	0.00	0.00
15,300.0	90.00	179.49	10,880.0	-4,561.6	41.0	4,561.7	0.00	0.00	0.00
15,400.0	90.00	179.49	10,880.0	-4,661.6	41.9	4,661.7	0.00	0.00	0.00
15,500.0	90.00	179.49	10,880.0	-4,761.5	42.8	4,761.7	0.00	0.00	0.00
15,536.5	90.00	179.49	10,880.0	-4,798.0	43.1	4,798.2	0.00	0.00	0.00
LTP(JR16S#503H)									
15,600.0	90.00	179.49	10,880.0	-4,861.5	43.7	4,861.7	0.00	0.00	0.00
15,636.5	90.00	179.49	10,880.0	-4,898.0	44.0	4,898.2	0.00	0.00	0.00
PBHL(JR16S#603H)									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL(JR16S#503H) - plan hits target center - Point	0.00	0.00	10,880.0	-4,898.0	44.0	441,464.00	764,026.00	32° 12' 38.950 N	103° 28' 46.836 W
FTP(JR16S#503H) - plan misses target center by 70.5usft at 10942.3usft MD (10818.1 TVD, -213.8 N, 2.3 E) - Point	0.00	0.00	10,880.0	-180.0	2.0	446,182.00	763,984.00	32° 13' 25.639 N	103° 28' 46.889 W
LTP(JR16S#503H) - plan misses target center by 0.1usft at 15536.5usft MD (10880.0 TVD, -4798.0 N, 43.1 E) - Point	0.00	0.00	10,880.0	-4,798.0	43.0	441,564.00	764,025.00	32° 12' 39.939 N	103° 28' 46.839 W