

Permit Information:

Well Name: Jolly Roger 16 State No. 504H

30-025-42160

Location:

SL: 150' FNL & 986' FWL, Section 16, T-24-S, R-34-E, Lea Co., N.M.

BHL: 230' FSL & 401' 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'-15,664'	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
15,664'	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' - 10,324'	Cut Brine	8.4-9.0	28-34	N/c
10,324' - 15,664' Lateral	Cut Brine	9.0-9.5	40-42	8-10

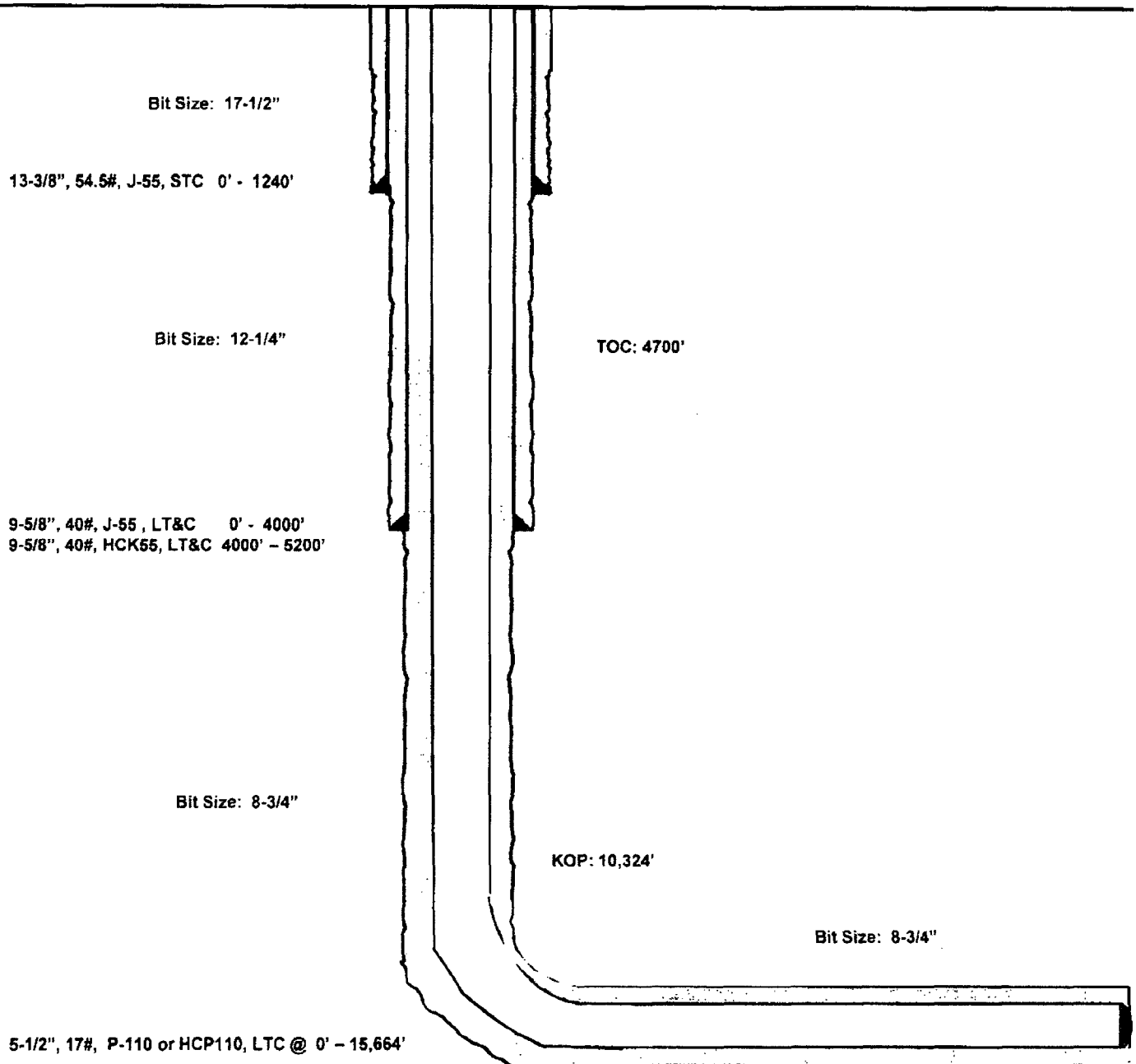
Jolly Roger 16 State #504H
Lea County, New Mexico

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

Proposed Wellbore

API: 30-025-

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



Lateral: 15,664' MD, 10,880' TVD

BH Location: 230' FSL & 401' FWL
Section 16
T-24-S, R-34-E



Lea County, NM (NAD 27 NME)

Jolly Roger 16 State #504H

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)

Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1868

Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North

True North: -0.46°

Magnetic North: 6.65°

Magnetic Field

Strength: 45295.6 mT

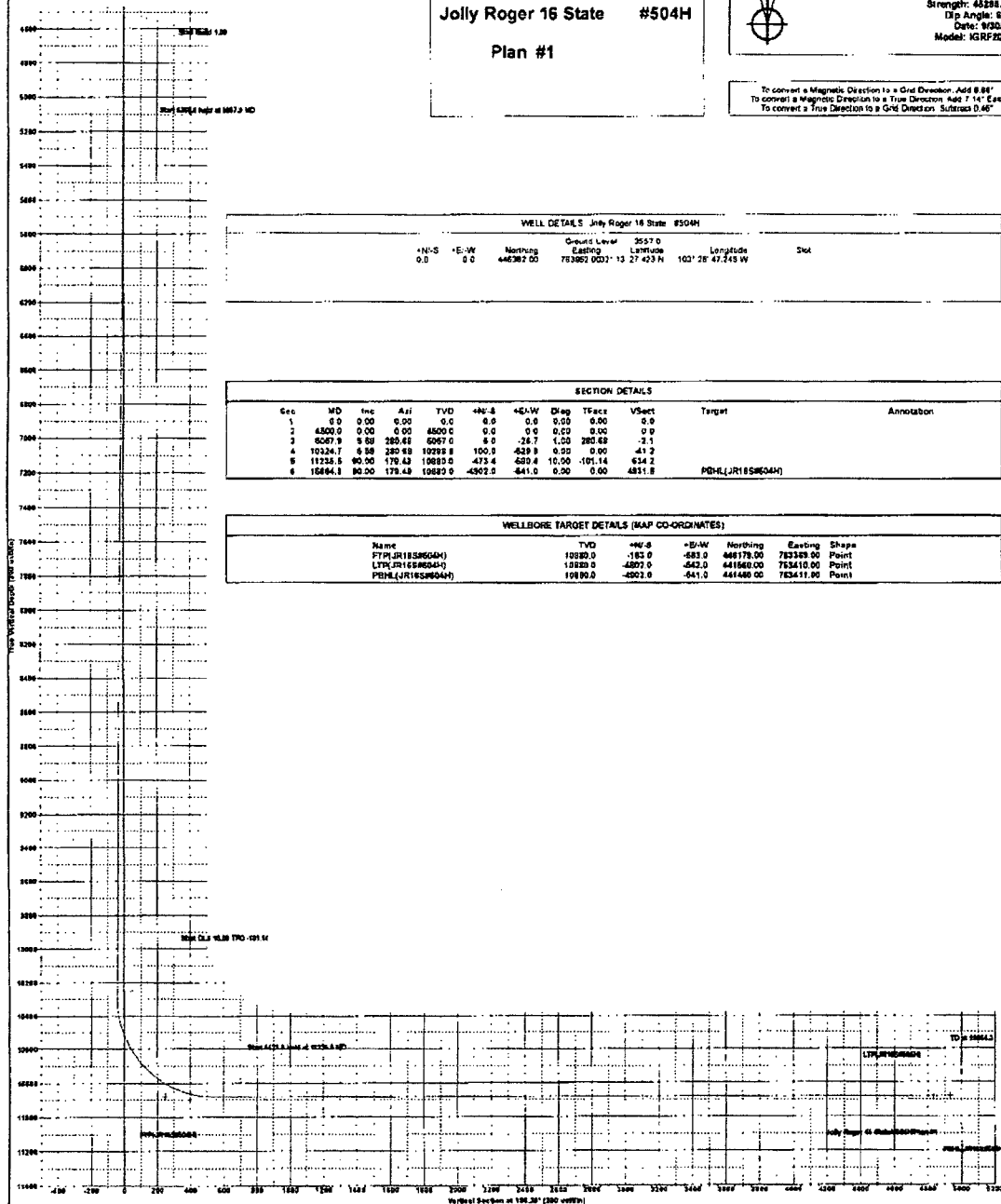
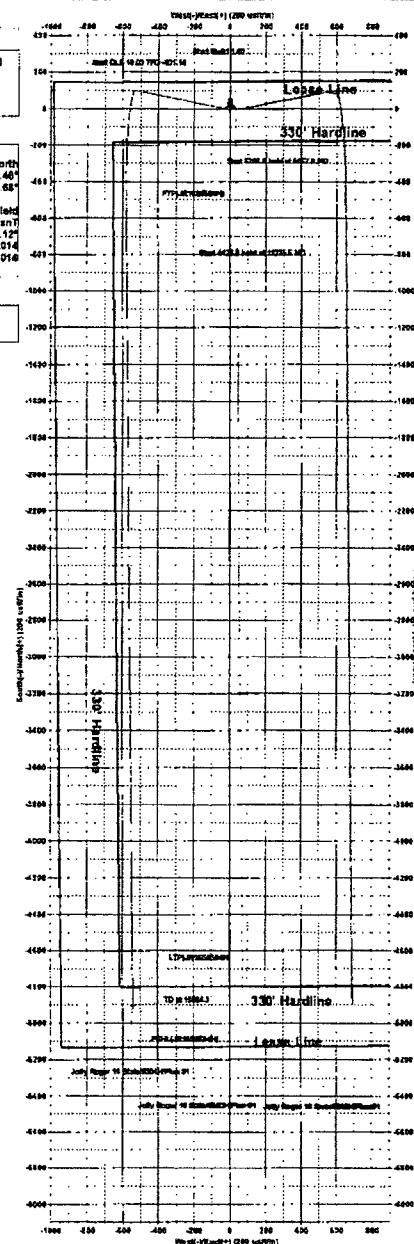
Dip Angle: 60.12°

To convert a Magnetic Direction to a Grid Direction, Add 8.84°
To convert a Magnetic Direction to a True Direction, Add 7 14' East
To convert a True Direction to a Grid Direction, Subtract 0.66°

WELL DETAILS Jinky Roger 16 State #504H					
*N-S	*E-W	Northng	Ground Level	3557 0	
0.0	0.0	446302 00	Easting	Latitude	Skot
			783952 0002 13	27 423 N	
				103 28 47.24 S W	

SECTION DETAILS											
Sec	MD	Inc	Asl	TVD	+N+ S	+E+W	Diag	Tface	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4300.0	0.00	0.00	6500.0	0.0	0.0	0.00	0.00	0.0		
3	9067.9	9.88	280.61	6067.0	0.0	-26.7	1.00	280.63	-2.1		
4	10234.6	9.88	280.98	10234.8	100.0	-62.9	0.00	0.00	-41.2		
5	11235.5	90.00	170.43	10810.0	473.4	-650.4	10.00	-101.14	60.0		
6	16664.1	90.00	170.43	10810.0	-4902.0	-641.0	0.00	-1.00	4811.8		PHILLIPS (RISMAN)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TYD	-40-S	-15-W	Horning	Existing	Shape
FTPLJRI16SR004H	15830.0	-165.0	-68.0	446178.00	753339.00	
LYPLJRI16SR004J	15830.0	-1397.0	-543.0	441560.00	753610.00	Point
PEMLJRI16SR004H	15830.0	-1392.0	-541.0	441480.00	753611.00	Point





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Jolly Roger 16 State

#504H

OH

Plan: Plan #1

Standard Planning Report

30 September, 2014

HOBB

SEP 30 2014

RECEIVED

HOBBS OOD

SEP 30 2014

RECEIVED



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: #504H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #504H
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	#504H			
Well Position	+N-S	-8.0 usft	Northing:	446,362.00 usft
	+E-W	-1,264.0 usft	Easting:	763,952.00 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 (°)	Field Strength (nT)
	IGRF201014	9/30/2014	7.14	60.12	48,296

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.0	0.0	0.0	186.30

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,057.9	5.58	280.68	5,057.0	5.0	-26.7	1.00	1.00	0.00	280.68	
10,324.7	5.58	280.68	10,298.9	100.0	-529.8	0.00	0.00	0.00	0.00	
11,235.5	90.00	179.49	10,880.0	-473.4	-580.4	10.00	9.27	-11.11	-101.14	
15,684.3	90.00	179.49	10,880.0	-4,902.0	-541.0	0.00	0.00	0.00	0.00	PBHL(JR16S#504H)



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: #504H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #504H
 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)
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	1.00	280.68	4,600.0	0.2	-0.9	-0.1	1.00	1.00	0.00
4,700.0	2.00	280.68	4,700.0	0.6	-3.4	-0.3	1.00	1.00	0.00
4,800.0	3.00	280.68	4,799.9	1.5	-7.7	-0.6	1.00	1.00	0.00
4,900.0	4.00	280.68	4,899.7	2.6	-13.7	-1.1	1.00	1.00	0.00
5,000.0	5.00	280.68	4,999.4	4.0	-21.4	-1.7	1.00	1.00	0.00
5,057.9	5.58	280.68	5,057.0	5.0	-26.7	-2.1	1.00	1.00	0.00
5,100.0	5.58	280.68	5,098.9	5.8	-30.7	-2.4	0.00	0.00	0.00
5,200.0	5.58	280.68	5,198.4	7.6	-40.2	-3.1	0.00	0.00	0.00



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: #504H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #504H
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)
5,300.0	5.58	280.68	5,298.0	9.4	-49.8	-3.9	0.00	0.00	0.00
5,400.0	5.58	280.68	5,397.5	11.2	-59.4	-4.6	0.00	0.00	0.00
5,500.0	5.58	280.68	5,497.0	13.0	-68.9	-5.4	0.00	0.00	0.00
5,600.0	5.58	280.68	5,596.6	14.8	-78.5	-6.1	0.00	0.00	0.00
5,700.0	5.58	280.68	5,696.1	16.6	-88.0	-6.8	0.00	0.00	0.00
5,800.0	5.58	280.68	5,795.6	18.4	-97.6	-7.6	0.00	0.00	0.00
5,900.0	5.58	280.68	5,895.1	20.2	-107.1	-8.3	0.00	0.00	0.00
6,000.0	5.58	280.68	5,994.7	22.0	-116.7	-9.1	0.00	0.00	0.00
6,100.0	5.58	280.68	6,094.2	23.8	-126.2	-9.8	0.00	0.00	0.00
6,200.0	5.58	280.68	6,193.7	25.6	-135.8	-10.6	0.00	0.00	0.00
6,300.0	5.58	280.68	6,293.2	27.4	-145.3	-11.3	0.00	0.00	0.00
6,400.0	5.58	280.68	6,392.8	29.2	-154.9	-12.1	0.00	0.00	0.00
6,500.0	5.58	280.68	6,492.3	31.0	-164.4	-12.8	0.00	0.00	0.00
6,600.0	5.58	280.68	6,591.8	32.8	-174.0	-13.5	0.00	0.00	0.00
6,700.0	5.58	280.68	6,691.3	34.6	-183.5	-14.3	0.00	0.00	0.00
6,800.0	5.58	280.68	6,790.9	36.4	-193.1	-15.0	0.00	0.00	0.00
6,900.0	5.58	280.68	6,890.4	38.2	-202.7	-15.8	0.00	0.00	0.00
7,000.0	5.58	280.68	6,989.9	40.0	-212.2	-16.5	0.00	0.00	0.00
7,100.0	5.58	280.68	7,089.4	41.8	-221.8	-17.3	0.00	0.00	0.00
7,200.0	5.58	280.68	7,189.0	43.6	-231.3	-18.0	0.00	0.00	0.00
7,300.0	5.58	280.68	7,288.5	45.4	-240.9	-18.7	0.00	0.00	0.00
7,400.0	5.58	280.68	7,388.0	47.2	-250.4	-19.5	0.00	0.00	0.00
7,500.0	5.58	280.68	7,487.6	49.0	-260.0	-20.2	0.00	0.00	0.00
7,600.0	5.58	280.68	7,587.1	50.8	-269.5	-21.0	0.00	0.00	0.00
7,700.0	5.58	280.68	7,686.6	52.6	-279.1	-21.7	0.00	0.00	0.00
7,800.0	5.58	280.68	7,786.1	54.5	-288.6	-22.5	0.00	0.00	0.00
7,900.0	5.58	280.68	7,885.7	56.3	-298.2	-23.2	0.00	0.00	0.00
8,000.0	5.58	280.68	7,985.2	58.1	-307.7	-24.0	0.00	0.00	0.00
8,100.0	5.58	280.68	8,084.7	59.9	-317.3	-24.7	0.00	0.00	0.00
8,200.0	5.58	280.68	8,184.2	61.7	-326.8	-25.4	0.00	0.00	0.00
8,300.0	5.58	280.68	8,283.8	63.5	-336.4	-26.2	0.00	0.00	0.00
8,400.0	5.58	280.68	8,383.3	65.3	-346.0	-26.9	0.00	0.00	0.00
8,500.0	5.58	280.68	8,482.8	67.1	-355.5	-27.7	0.00	0.00	0.00
8,600.0	5.58	280.68	8,582.3	68.9	-365.1	-28.4	0.00	0.00	0.00
8,700.0	5.58	280.68	8,681.9	70.7	-374.6	-29.2	0.00	0.00	0.00
8,800.0	5.58	280.68	8,781.4	72.5	-384.2	-29.9	0.00	0.00	0.00
8,900.0	5.58	280.68	8,880.9	74.3	-393.7	-30.6	0.00	0.00	0.00
9,000.0	5.58	280.68	8,980.4	76.1	-403.3	-31.4	0.00	0.00	0.00
9,100.0	5.58	280.68	9,080.0	77.9	-412.8	-32.1	0.00	0.00	0.00
9,200.0	5.58	280.68	9,179.5	79.7	-422.4	-32.9	0.00	0.00	0.00
9,300.0	5.58	280.68	9,279.0	81.5	-431.9	-33.6	0.00	0.00	0.00
9,400.0	5.58	280.68	9,378.6	83.3	-441.5	-34.4	0.00	0.00	0.00
9,500.0	5.58	280.68	9,478.1	85.1	-451.0	-35.1	0.00	0.00	0.00
9,600.0	5.58	280.68	9,577.6	86.9	-460.6	-35.8	0.00	0.00	0.00
9,700.0	5.58	280.68	9,677.1	88.7	-470.1	-36.6	0.00	0.00	0.00
9,800.0	5.58	280.68	9,776.7	90.5	-479.7	-37.3	0.00	0.00	0.00
9,900.0	5.58	280.68	9,876.2	92.3	-489.3	-38.1	0.00	0.00	0.00
10,000.0	5.58	280.68	9,975.7	94.1	-498.8	-38.8	0.00	0.00	0.00
10,100.0	5.58	280.68	10,075.2	95.9	-508.4	-39.6	0.00	0.00	0.00
10,200.0	5.58	280.68	10,174.8	97.7	-517.9	-40.3	0.00	0.00	0.00
10,300.0	5.58	280.68	10,274.3	99.5	-527.5	-41.1	0.00	0.00	0.00
10,324.7	5.58	280.68	10,298.9	100.0	-529.8	-41.2	0.00	0.00	0.00
10,350.0	5.66	254.66	10,324.1	99.9	-532.2	-40.9	10.00	0.32	-102.94
10,400.0	8.45	219.66	10,373.7	96.4	-537.0	-36.9	10.00	5.58	-70.00



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: #504H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #504H
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)
10,450.0	12.67	204.71	10,422.8	88.6	-541.6	-28.6	10.00	8.45	-29.89
10,500.0	17.31	197.40	10,471.1	76.5	-546.1	-16.1	10.00	9.27	-14.64
10,550.0	22.10	193.14	10,518.2	60.2	-550.5	0.5	10.00	9.58	-8.52
10,600.0	26.97	190.35	10,563.7	39.9	-554.7	21.2	10.00	9.73	-5.59
10,650.0	31.87	188.38	10,607.2	15.6	-558.6	45.7	10.00	9.81	-3.98
10,700.0	36.80	186.85	10,648.5	-12.3	-562.3	73.9	10.00	9.86	-3.01
10,750.0	41.74	185.66	10,687.2	-43.8	-565.8	105.5	10.00	9.89	-2.39
10,800.0	46.69	184.67	10,723.0	-78.5	-568.9	140.4	10.00	9.91	-1.97
10,850.0	51.65	183.84	10,755.7	-116.2	-571.7	178.2	10.00	9.92	-1.67
10,900.0	56.62	183.11	10,785.0	-156.6	-574.1	218.7	10.00	9.93	-1.45
10,950.0	61.59	182.46	10,810.6	-199.5	-576.2	261.5	10.00	9.94	-1.30
10,965.8	63.16	182.27	10,817.9	-213.4	-576.8	275.4	10.00	9.94	-1.22
FTP(JR16S#504H)									
11,000.0	66.56	181.87	10,832.5	-244.4	-577.9	306.3	10.00	9.94	-1.16
11,050.0	71.53	181.32	10,850.4	-291.0	-579.2	352.8	10.00	9.95	-1.09
11,100.0	76.51	180.81	10,864.1	-339.1	-580.1	400.7	10.00	9.95	-1.03
11,150.0	81.49	180.31	10,873.7	-388.2	-580.6	449.5	10.00	9.95	-0.99
11,200.0	86.46	179.83	10,878.9	-437.9	-580.6	498.9	10.00	9.95	-0.97
11,235.5	90.00	179.49	10,880.0	-473.4	-580.4	534.2	10.00	9.95	-0.96
11,300.0	90.00	179.49	10,880.0	-537.8	-579.8	588.2	0.00	0.00	0.00
11,400.0	90.00	179.49	10,880.0	-637.8	-579.0	697.5	0.00	0.00	0.00
11,500.0	90.00	179.49	10,880.0	-737.8	-578.1	796.8	0.00	0.00	0.00
11,600.0	90.00	179.49	10,880.0	-837.8	-577.2	896.1	0.00	0.00	0.00
11,700.0	90.00	179.49	10,880.0	-937.8	-576.3	995.4	0.00	0.00	0.00
11,800.0	90.00	179.49	10,880.0	-1,037.8	-575.4	1,094.7	0.00	0.00	0.00
11,900.0	90.00	179.49	10,880.0	-1,137.8	-574.5	1,194.0	0.00	0.00	0.00
12,000.0	90.00	179.49	10,880.0	-1,237.8	-573.6	1,293.3	0.00	0.00	0.00
12,100.0	90.00	179.49	10,880.0	-1,337.8	-572.7	1,392.6	0.00	0.00	0.00
12,200.0	90.00	179.49	10,880.0	-1,437.8	-571.8	1,491.8	0.00	0.00	0.00
12,300.0	90.00	179.49	10,880.0	-1,537.8	-570.9	1,591.1	0.00	0.00	0.00
12,400.0	90.00	179.49	10,880.0	-1,637.8	-570.1	1,690.4	0.00	0.00	0.00
12,500.0	90.00	179.49	10,880.0	-1,737.8	-569.2	1,789.7	0.00	0.00	0.00
12,600.0	90.00	179.49	10,880.0	-1,837.8	-568.3	1,889.0	0.00	0.00	0.00
12,700.0	90.00	179.49	10,880.0	-1,937.8	-567.4	1,988.3	0.00	0.00	0.00
12,800.0	90.00	179.49	10,880.0	-2,037.8	-566.5	2,087.6	0.00	0.00	0.00
12,900.0	90.00	179.49	10,880.0	-2,137.8	-565.6	2,186.9	0.00	0.00	0.00
13,000.0	90.00	179.49	10,880.0	-2,237.8	-564.7	2,286.2	0.00	0.00	0.00
13,100.0	90.00	179.49	10,880.0	-2,337.8	-563.8	2,385.5	0.00	0.00	0.00
13,200.0	90.00	179.49	10,880.0	-2,437.8	-562.9	2,484.8	0.00	0.00	0.00
13,300.0	90.00	179.49	10,880.0	-2,537.8	-562.0	2,584.1	0.00	0.00	0.00
13,400.0	90.00	179.49	10,880.0	-2,637.8	-561.2	2,683.4	0.00	0.00	0.00
13,500.0	90.00	179.49	10,880.0	-2,737.8	-560.3	2,782.7	0.00	0.00	0.00
13,600.0	90.00	179.49	10,880.0	-2,837.7	-559.4	2,882.0	0.00	0.00	0.00
13,700.0	90.00	179.49	10,880.0	-2,937.7	-558.5	2,981.3	0.00	0.00	0.00
13,800.0	90.00	179.49	10,880.0	-3,037.7	-557.6	3,080.6	0.00	0.00	0.00
13,900.0	90.00	179.49	10,880.0	-3,137.7	-556.7	3,179.9	0.00	0.00	0.00
14,000.0	90.00	179.49	10,880.0	-3,237.7	-555.8	3,279.2	0.00	0.00	0.00
14,100.0	90.00	179.49	10,880.0	-3,337.7	-554.9	3,378.5	0.00	0.00	0.00
14,200.0	90.00	179.49	10,880.0	-3,437.7	-554.0	3,477.8	0.00	0.00	0.00
14,300.0	90.00	179.49	10,880.0	-3,537.7	-553.1	3,577.0	0.00	0.00	0.00
14,400.0	90.00	179.49	10,880.0	-3,637.7	-552.3	3,676.3	0.00	0.00	0.00
14,500.0	90.00	179.49	10,880.0	-3,737.7	-551.4	3,775.6	0.00	0.00	0.00
14,600.0	90.00	179.49	10,880.0	-3,837.7	-550.5	3,874.9	0.00	0.00	0.00



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: #504H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #504H
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)
14,700.0	90.00	179.49	10,880.0	-3,937.7	-549.6	3,974.2	0.00	0.00	0.00
14,800.0	90.00	179.49	10,880.0	-4,037.7	-548.7	4,073.5	0.00	0.00	0.00
14,900.0	90.00	179.49	10,880.0	-4,137.7	-547.8	4,172.8	0.00	0.00	0.00
15,000.0	90.00	179.49	10,880.0	-4,237.7	-546.9	4,272.1	0.00	0.00	0.00
15,100.0	90.00	179.49	10,880.0	-4,337.7	-546.0	4,371.4	0.00	0.00	0.00
15,200.0	90.00	179.49	10,880.0	-4,437.7	-545.1	4,470.7	0.00	0.00	0.00
15,300.0	90.00	179.49	10,880.0	-4,537.7	-544.2	4,570.0	0.00	0.00	0.00
15,400.0	90.00	179.49	10,880.0	-4,637.7	-543.4	4,669.3	0.00	0.00	0.00
15,500.0	90.00	179.49	10,880.0	-4,737.7	-542.5	4,768.6	0.00	0.00	0.00
15,564.3	90.00	179.49	10,880.0	-4,802.0	-541.9	4,832.5	0.00	0.00	0.00
LTP(JR16S#504H)									
15,600.0	90.00	179.49	10,880.0	-4,837.7	-541.6	4,867.9	0.00	0.00	0.00
15,664.3	90.00	179.49	10,880.0	-4,902.0	-541.0	4,931.8	0.00	0.00	0.00
PBHL(JR16S#504H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP(JR16S#504H)	0.00	0.00	10,880.0	-183.0	-583.0	446,179.00	763,369.00	32° 13' 25.658 N	103° 28' 54.048 W
- plan misses target center by 69.4usft at 10965.8usft MD (10817.9 TVD, -213.4 N, -576.8 E)									
- Point									
LTP(JR16S#504H)	0.00	0.00	10,880.0	-4,802.0	-542.0	441,560.00	763,410.00	32° 12' 39.948 N	103° 28' 53.997 W
- plan misses target center by 0.1usft at 15564.3usft MD (10880.0 TVD, -4802.0 N, -541.9 E)									
- Point									
PBHL(JR16S#504H)	0.00	0.00	10,880.0	-4,902.0	-541.0	441,460.00	763,411.00	32° 12' 38.959 N	103° 28' 53.994 W
- plan hits target center									
- Point									