

Permit Information:

30-025-42158

Well Name: Jolly Roger 16 State No. 502H

Location:

SL: 150' FNL & 1046' FWL, Section 16, T-24-S, R-34-E, Lea Co., N.M.
 BHL: 230' FSL & 1631' 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'-15,658'	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
15,658'	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' - 10,325'	Cut Brine	8.4-9.0	28-34	N/c
10,325' - 15,658' Lateral	Cut Brine	9.0-9.5	40-42	8-10

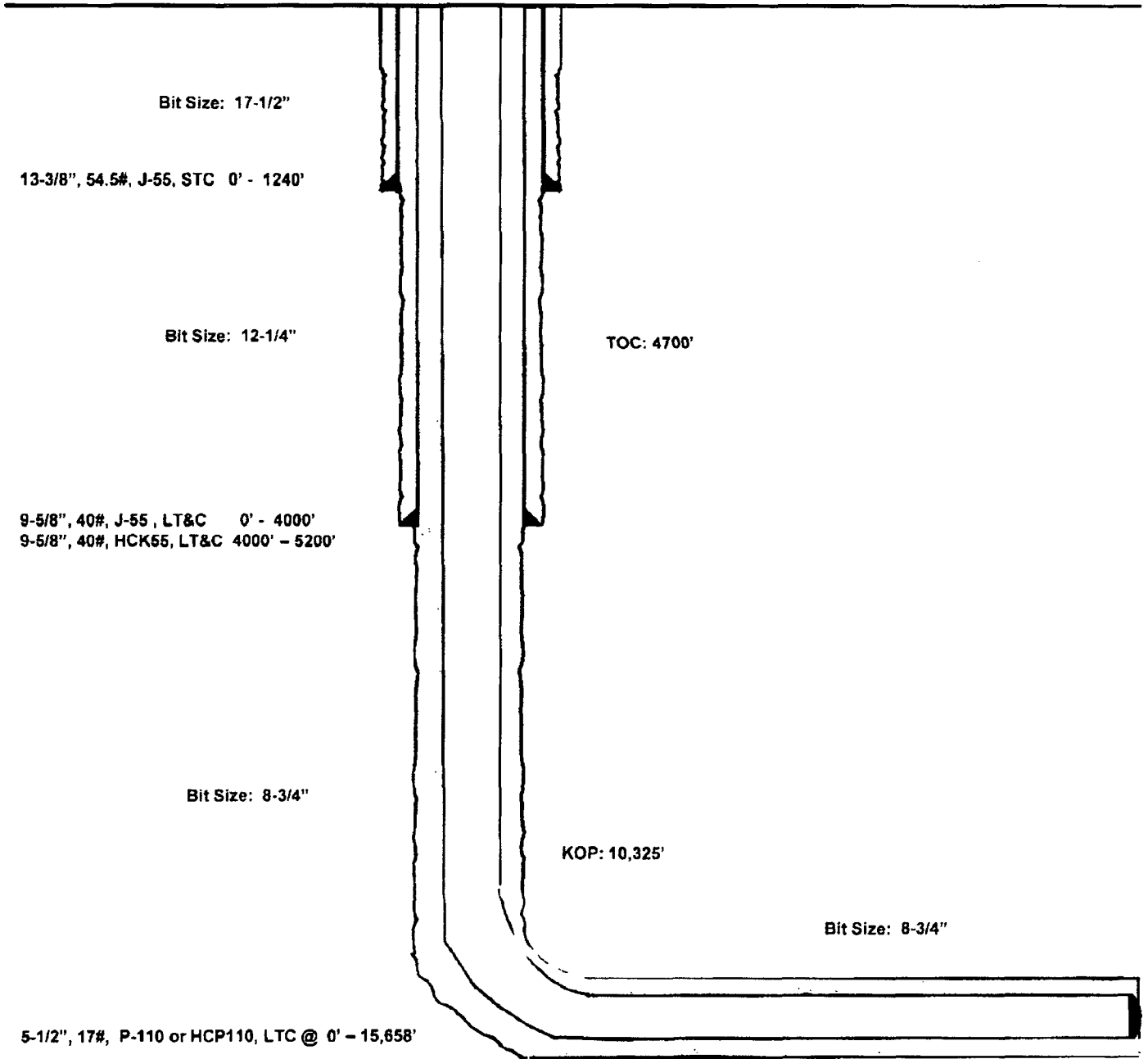
Jolly Roger 16 State #502H
Lea County, New Mexico

150' FNL
1046' FWL
Section 16
T-24-S, R-34-E

Proposed Wellbore

API: 30-025-

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



Lateral: 15,658' MD, 10,880' TVD
BH Location: 230' FSL & 1631' FWL
Section 16
T-24-S, R-34-E

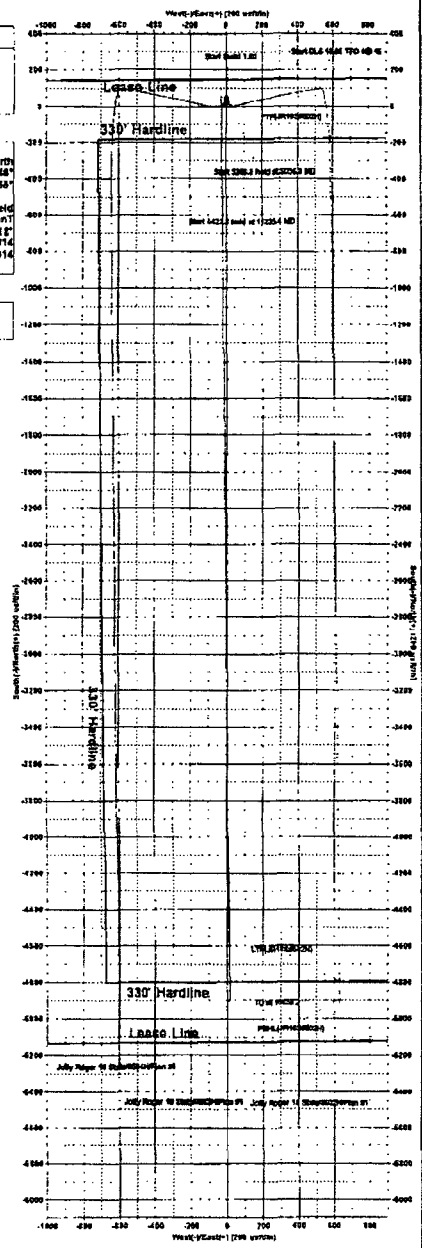
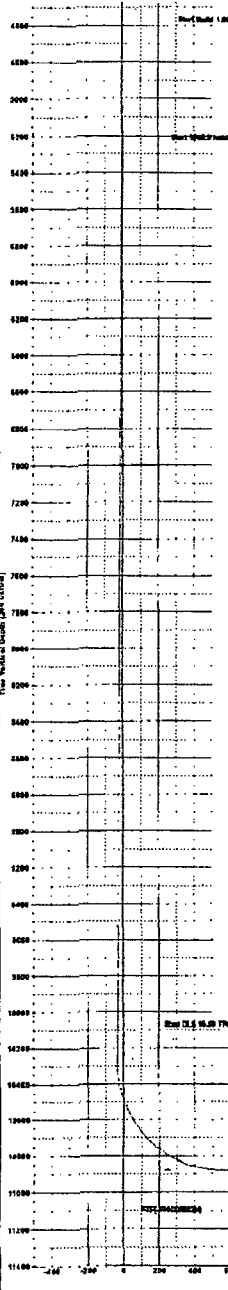


PROJECT DETAILS: Lea County, NM (NAD 27 NME)
 Geodetic System: US State Plane 1027 (Exact solution)
 Datum: NAD 1987 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 1001
 System Datum: Mean Sea Level

Lea County, NM (NAD 27 NME)
Jolly Roger 16 State #502H
Plan #1

Alignments to Grid North
 True North: -4.48°
 Magnetic North: 6.63°
 Magnetic Field Strength: 48255.5anT
 Dip Angle: 61.13°
 Date: 9/20/2016
 Model: IGRF201014

To convert a Magnetic Direction to a Grid Direction Add 6.63°
 To convert a Magnetic Direction to a True Direction Add 1.15° East
 To convert a True Direction to a Grid Direction Subtract 0.48°



WELL DETAILS: Jolly Roger 16 State #502H

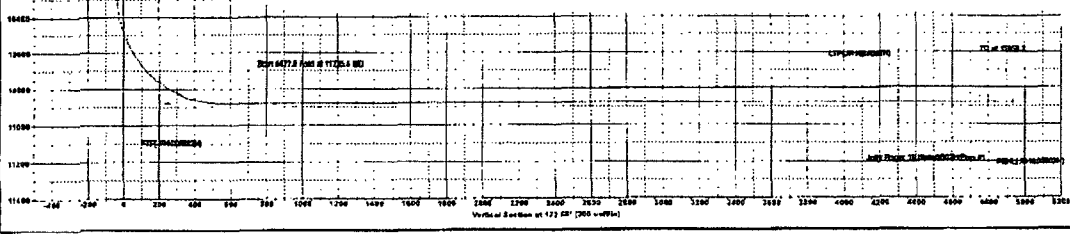
+	N	-E	-W	Northing	Ground Level	3557.0	Longitude	Dist
0.0	0.0	0.0	0.0	44833.00	784017.0007	13 27 423 N	102° 28' 48.548 W	

SECTION DETAILS

Ser	MD	Inc	Azi	TVD	+W-S	+E-W	Dleg	Tface	Vsect	Target	Alteration
1	0.0	0.00	0.00	3.0	0.0	0.0	0.00	0.00	0.0		
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0		
3	5096.8	5.87	73.29	8200.9	0.0	25.6	1.00	78.22	-1.6		
4	10328.6	8.87	78.29	10289.9	100.0	828.8	0.05	0.00	-31.8		
5	11238.4	90.00	178.48	10589.0	-472.6	829.8	16.00	100.18	343.7		
6	16458.2	90.00	178.48	12852.0	-4286.0	829.0	0.00	0.00	4339.2		FBI(LJRI16SR502H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	4N-S	+E-W	Northing	Easting	Shape
FTP(LJRI16SR502H)	10280.0	-177.0	687.0	444198.00	784209.00	Point
LTP(LJRI16SR502H)	10880.0	-4786.0	638.0	441688.00	784540.00	Point
PB(LJRI16SR502H)	10900.0	-4586.0	629.0	441448.00	784641.00	Point



HOBBS OCD

SEP 30 2014

RECEIVED



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Jolly Roger 16 State

#502H

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: #502H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #502H
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	#502H					
Well Position	+N/-S	-7.0 usft	Northing:	446,363.00 usft	Latitude:	32° 13' 27.428 N
	+E/-W	-1,204.0 usft	Easting:	764,012.00 usft	Longitude:	103° 28' 46.546 W
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) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	172.68	

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	
5,056.8	5.57	79.29	5,055.9	5.0	26.6	1.00	1.00	0.00	79.29	
10,325.6	5.57	79.29	10,299.9	100.0	528.9	0.00	0.00	0.00	0.00	
11,235.4	90.00	179.49	10,880.0	-472.4	589.6	10.00	9.28	11.01	100.15	
15,658.2	90.00	179.49	10,880.0	-4,895.0	629.0	0.00	0.00	0.00	0.00	PBHL(JR16S#502H)



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Design: Plan #1

Local Co-ordinate Reference: Well #502H
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	79.29	4,600.0	0.2	0.9	-0.1	1.00	1.00	0.00
4,700.0	2.00	79.29	4,700.0	0.6	3.4	-0.2	1.00	1.00	0.00
4,800.0	3.00	79.29	4,799.9	1.5	7.7	-0.5	1.00	1.00	0.00
4,900.0	4.00	79.29	4,899.7	2.6	13.7	-0.8	1.00	1.00	0.00
5,000.0	5.00	79.29	4,999.4	4.0	21.4	-1.3	1.00	1.00	0.00
5,056.8	5.57	79.29	5,055.9	5.0	26.6	-1.6	1.00	1.00	0.00
5,100.0	5.57	79.29	5,098.9	5.8	30.7	-1.8	0.00	0.00	0.00
5,200.0	5.57	79.29	5,198.4	7.6	40.2	-2.4	0.00	0.00	0.00



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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	5.57	79.29	5,298.0	9.4	49.7	-3.0	0.00	0.00	0.00
5,400.0	5.57	79.29	5,397.5	11.2	59.3	-3.6	0.00	0.00	0.00
5,500.0	5.57	79.29	5,497.0	13.0	68.8	-4.1	0.00	0.00	0.00
5,600.0	5.57	79.29	5,596.6	14.8	78.3	-4.7	0.00	0.00	0.00
5,700.0	5.57	79.29	5,696.1	16.6	87.9	-5.3	0.00	0.00	0.00
5,800.0	5.57	79.29	5,795.6	18.4	97.4	-5.9	0.00	0.00	0.00
5,900.0	5.57	79.29	5,895.1	20.2	107.0	-6.4	0.00	0.00	0.00
6,000.0	5.57	79.29	5,994.7	22.0	116.5	-7.0	0.00	0.00	0.00
6,100.0	5.57	79.29	6,094.2	23.8	126.0	-7.6	0.00	0.00	0.00
6,200.0	5.57	79.29	6,193.7	25.6	135.6	-8.1	0.00	0.00	0.00
6,300.0	5.57	79.29	6,293.3	27.4	145.1	-8.7	0.00	0.00	0.00
6,400.0	5.57	79.29	6,392.8	29.2	154.6	-9.3	0.00	0.00	0.00
6,500.0	5.57	79.29	6,492.3	31.0	164.2	-9.9	0.00	0.00	0.00
6,600.0	5.57	79.29	6,591.8	32.8	173.7	-10.4	0.00	0.00	0.00
6,700.0	5.57	79.29	6,691.4	34.6	183.2	-11.0	0.00	0.00	0.00
6,800.0	5.57	79.29	6,790.9	36.4	192.8	-11.6	0.00	0.00	0.00
6,900.0	5.57	79.29	6,890.4	38.2	202.3	-12.1	0.00	0.00	0.00
7,000.0	5.57	79.29	6,990.0	40.0	211.8	-12.7	0.00	0.00	0.00
7,100.0	5.57	79.29	7,089.5	41.8	221.4	-13.3	0.00	0.00	0.00
7,200.0	5.57	79.29	7,189.0	43.6	230.9	-13.9	0.00	0.00	0.00
7,300.0	5.57	79.29	7,288.5	45.5	240.4	-14.4	0.00	0.00	0.00
7,400.0	5.57	79.29	7,388.1	47.3	250.0	-15.0	0.00	0.00	0.00
7,500.0	5.57	79.29	7,487.6	49.1	259.5	-15.6	0.00	0.00	0.00
7,600.0	5.57	79.29	7,587.1	50.9	269.0	-16.2	0.00	0.00	0.00
7,700.0	5.57	79.29	7,686.7	52.7	278.6	-16.7	0.00	0.00	0.00
7,800.0	5.57	79.29	7,786.2	54.5	288.1	-17.3	0.00	0.00	0.00
7,900.0	5.57	79.29	7,885.7	56.3	297.6	-17.9	0.00	0.00	0.00
8,000.0	5.57	79.29	7,985.2	58.1	307.2	-18.4	0.00	0.00	0.00
8,100.0	5.57	79.29	8,084.8	59.9	316.7	-19.0	0.00	0.00	0.00
8,200.0	5.57	79.29	8,184.3	61.7	326.2	-19.6	0.00	0.00	0.00
8,300.0	5.57	79.29	8,283.8	63.5	335.8	-20.2	0.00	0.00	0.00
8,400.0	5.57	79.29	8,383.4	65.3	345.3	-20.7	0.00	0.00	0.00
8,500.0	5.57	79.29	8,482.9	67.1	354.8	-21.3	0.00	0.00	0.00
8,600.0	5.57	79.29	8,582.4	68.9	364.4	-21.9	0.00	0.00	0.00
8,700.0	5.57	79.29	8,681.9	70.7	373.9	-22.5	0.00	0.00	0.00
8,800.0	5.57	79.29	8,781.5	72.5	383.4	-23.0	0.00	0.00	0.00
8,900.0	5.57	79.29	8,881.0	74.3	393.0	-23.6	0.00	0.00	0.00
9,000.0	5.57	79.29	8,980.5	76.1	402.5	-24.2	0.00	0.00	0.00
9,100.0	5.57	79.29	9,080.0	77.9	412.0	-24.7	0.00	0.00	0.00
9,200.0	5.57	79.29	9,179.6	79.7	421.6	-25.3	0.00	0.00	0.00
9,300.0	5.57	79.29	9,279.1	81.5	431.1	-25.9	0.00	0.00	0.00
9,400.0	5.57	79.29	9,378.6	83.3	440.6	-26.5	0.00	0.00	0.00
9,500.0	5.57	79.29	9,478.2	85.1	450.2	-27.0	0.00	0.00	0.00
9,600.0	5.57	79.29	9,577.7	86.9	459.7	-27.6	0.00	0.00	0.00
9,700.0	5.57	79.29	9,677.2	88.7	469.2	-28.2	0.00	0.00	0.00
9,800.0	5.57	79.29	9,776.7	90.5	478.8	-28.8	0.00	0.00	0.00
9,900.0	5.57	79.29	9,876.3	92.3	488.3	-29.3	0.00	0.00	0.00
10,000.0	5.57	79.29	9,975.8	94.1	497.8	-29.9	0.00	0.00	0.00
10,100.0	5.57	79.29	10,075.3	95.9	507.4	-30.5	0.00	0.00	0.00
10,200.0	5.57	79.29	10,174.9	97.7	516.9	-31.0	0.00	0.00	0.00
10,300.0	5.57	79.29	10,274.4	99.5	526.4	-31.6	0.00	0.00	0.00
10,325.6	5.57	79.29	10,299.9	100.0	528.9	-31.8	0.00	0.00	0.00
10,350.0	5.67	104.39	10,324.2	99.9	531.2	-31.4	10.00	0.42	102.86
10,400.0	8.46	139.32	10,373.8	96.5	536.0	-27.4	10.00	5.58	69.87



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: #502H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #502H
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	12.68	154.26	10,422.9	88.8	540.8	-19.1	10.00	8.45	29.86
10,500.0	17.32	161.57	10,471.2	76.7	545.5	-6.6	10.00	9.27	14.63
10,550.0	22.11	165.83	10,518.3	60.5	550.2	10.1	10.00	9.58	8.52
10,600.0	26.98	168.63	10,563.8	40.3	554.7	30.7	10.00	9.73	5.59
10,650.0	31.88	170.62	10,607.3	16.1	559.1	55.3	10.00	9.81	3.98
10,700.0	36.81	172.12	10,648.6	-11.8	563.3	83.4	10.00	9.85	3.01
10,750.0	41.75	173.32	10,687.2	-43.1	567.3	115.1	10.00	9.89	2.39
10,800.0	46.70	174.30	10,723.1	-77.8	571.1	149.9	10.00	9.91	1.97
10,850.0	51.66	175.14	10,755.7	-115.5	574.5	187.8	10.00	9.92	1.67
10,900.0	56.63	175.87	10,785.0	-155.9	577.7	228.2	10.00	9.93	1.46
10,950.0	61.60	176.52	10,810.7	-198.7	580.5	271.0	10.00	9.94	1.30
10,961.2	62.71	176.65	10,815.9	-208.5	581.1	280.9	10.00	9.94	1.22
FTP(JR16S#502H)									
11,000.0	66.57	177.11	10,832.5	-243.6	583.0	315.9	10.00	9.94	1.17
11,050.0	71.54	177.65	10,850.4	-290.2	585.2	362.4	10.00	9.95	1.10
11,100.0	76.52	178.17	10,864.1	-338.2	586.9	410.2	10.00	9.95	1.03
11,150.0	81.50	178.67	10,873.7	-387.3	588.3	459.1	10.00	9.95	0.99
11,200.0	86.47	179.15	10,878.9	-437.0	589.2	508.5	10.00	9.95	0.97
11,235.4	90.00	179.49	10,880.0	-472.4	589.6	543.7	10.00	9.95	0.96
11,300.0	90.00	179.49	10,880.0	-536.9	590.2	607.8	0.00	0.00	0.00
11,400.0	90.00	179.49	10,880.0	-636.9	591.1	707.1	0.00	0.00	0.00
11,500.0	90.00	179.49	10,880.0	-736.9	592.0	806.4	0.00	0.00	0.00
11,600.0	90.00	179.49	10,880.0	-836.9	592.9	905.7	0.00	0.00	0.00
11,700.0	90.00	179.49	10,880.0	-936.9	593.8	1,004.9	0.00	0.00	0.00
11,800.0	90.00	179.49	10,880.0	-1,036.9	594.7	1,104.2	0.00	0.00	0.00
11,900.0	90.00	179.49	10,880.0	-1,136.9	595.5	1,203.5	0.00	0.00	0.00
12,000.0	90.00	179.49	10,880.0	-1,236.9	596.4	1,302.8	0.00	0.00	0.00
12,100.0	90.00	179.49	10,880.0	-1,336.9	597.3	1,402.1	0.00	0.00	0.00
12,200.0	90.00	179.49	10,880.0	-1,436.9	598.2	1,501.4	0.00	0.00	0.00
12,300.0	90.00	179.49	10,880.0	-1,536.9	599.1	1,600.7	0.00	0.00	0.00
12,400.0	90.00	179.49	10,880.0	-1,636.9	600.0	1,700.0	0.00	0.00	0.00
12,500.0	90.00	179.49	10,880.0	-1,736.9	600.9	1,799.3	0.00	0.00	0.00
12,600.0	90.00	179.49	10,880.0	-1,836.9	601.8	1,898.6	0.00	0.00	0.00
12,700.0	90.00	179.49	10,880.0	-1,936.9	602.7	1,997.9	0.00	0.00	0.00
12,800.0	90.00	179.49	10,880.0	-2,036.9	603.6	2,097.2	0.00	0.00	0.00
12,900.0	90.00	179.49	10,880.0	-2,136.9	604.4	2,196.5	0.00	0.00	0.00
13,000.0	90.00	179.49	10,880.0	-2,236.9	605.3	2,295.8	0.00	0.00	0.00
13,100.0	90.00	179.49	10,880.0	-2,336.9	606.2	2,395.1	0.00	0.00	0.00
13,200.0	90.00	179.49	10,880.0	-2,436.9	607.1	2,494.4	0.00	0.00	0.00
13,300.0	90.00	179.49	10,880.0	-2,536.9	608.0	2,593.7	0.00	0.00	0.00
13,400.0	90.00	179.49	10,880.0	-2,636.8	608.9	2,692.9	0.00	0.00	0.00
13,500.0	90.00	179.49	10,880.0	-2,736.8	609.8	2,792.2	0.00	0.00	0.00
13,600.0	90.00	179.49	10,880.0	-2,836.8	610.7	2,891.5	0.00	0.00	0.00
13,700.0	90.00	179.49	10,880.0	-2,936.8	611.6	2,990.8	0.00	0.00	0.00
13,800.0	90.00	179.49	10,880.0	-3,036.8	612.5	3,090.1	0.00	0.00	0.00
13,900.0	90.00	179.49	10,880.0	-3,136.8	613.3	3,189.4	0.00	0.00	0.00
14,000.0	90.00	179.49	10,880.0	-3,236.8	614.2	3,288.7	0.00	0.00	0.00
14,100.0	90.00	179.49	10,880.0	-3,336.8	615.1	3,388.0	0.00	0.00	0.00
14,200.0	90.00	179.49	10,880.0	-3,436.8	616.0	3,487.3	0.00	0.00	0.00
14,300.0	90.00	179.49	10,880.0	-3,536.8	616.9	3,586.6	0.00	0.00	0.00
14,400.0	90.00	179.49	10,880.0	-3,636.8	617.8	3,685.9	0.00	0.00	0.00
14,500.0	90.00	179.49	10,880.0	-3,736.8	618.7	3,785.2	0.00	0.00	0.00
14,600.0	90.00	179.49	10,880.0	-3,836.8	619.6	3,884.5	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #502H
 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	-3,936.8	620.5	3,983.8	0.00	0.00	0.00	
14,800.0	90.00	179.49	10,880.0	-4,036.8	621.4	4,083.1	0.00	0.00	0.00	
14,900.0	90.00	179.49	10,880.0	-4,136.8	622.3	4,182.4	0.00	0.00	0.00	
15,000.0	90.00	179.49	10,880.0	-4,236.8	623.1	4,281.7	0.00	0.00	0.00	
15,100.0	90.00	179.49	10,880.0	-4,336.8	624.0	4,380.9	0.00	0.00	0.00	
15,200.0	90.00	179.49	10,880.0	-4,436.8	624.9	4,480.2	0.00	0.00	0.00	
15,300.0	90.00	179.49	10,880.0	-4,536.8	625.8	4,579.5	0.00	0.00	0.00	
15,400.0	90.00	179.49	10,880.0	-4,636.8	626.7	4,678.8	0.00	0.00	0.00	
15,500.0	90.00	179.49	10,880.0	-4,736.8	627.6	4,778.1	0.00	0.00	0.00	
15,558.2	90.00	179.49	10,880.0	-4,795.0	628.1	4,835.9	0.00	0.00	0.00	
LTP(JR16S#502H)										
15,600.0	90.00	179.49	10,880.0	-4,836.8	628.5	4,877.4	0.00	0.00	0.00	
15,658.2	90.00	179.49	10,880.0	-4,895.0	629.0	4,935.2	0.00	0.00	0.00	
PBHL(JR16S#802H)										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP(JR16S#502H)	0.00	0.00	10,880.0	-4,795.0	628.0	441,568.00	764,640.00	32° 12' 39.931 N	103° 28' 39.680 W	
- hit/miss target										
- plan misses target center by 0.1usft at 15558.2usft MD (10880.0 TVD, -4795.0 N, 628.1 E)										
- Point										
PBHL(JR16S#502H)	0.00	0.00	10,880.0	-4,895.0	629.0	441,468.00	764,641.00	32° 12' 38.941 N	103° 28' 39.678 W	
- plan hits target center										
- Point										
FTP(JR16S#502H)	0.00	0.00	10,880.0	-177.0	587.0	446,166.00	764,599.00	32° 13' 25.630 N	103° 28' 39.730 W	
- plan misses target center by 71.7usft at 10961.2usft MD (10815.9 TVD, -208.5 N, 581.1 E)										
- Point										