

30-025-42156

Permit Information:

Well Name: Lomas Rojas 26 State Com No. 501H

Location:

SL: 330' FSL & 875' FEL, Section 26, T-25-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 380' FEL, Section 26, T-25-S, R-33-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 - 1075'	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' - 5000'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-15,685'	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
1075'	400	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)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,000'	800	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)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
15,685'	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 @ 4500')
	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 - 1075'	Fresh - Gel	8.6-8.8	28-34	N/c
1075' - 5,000'	Brine	10.0-10.2	28-34	N/c
5,000' - 10,324'	Cut Brine	8.4-9.0	28-34	N/c
10,324' - 15,685' Lateral	Cut Brine	9.0-9.5	40-42	8-10

OCT 01 2014

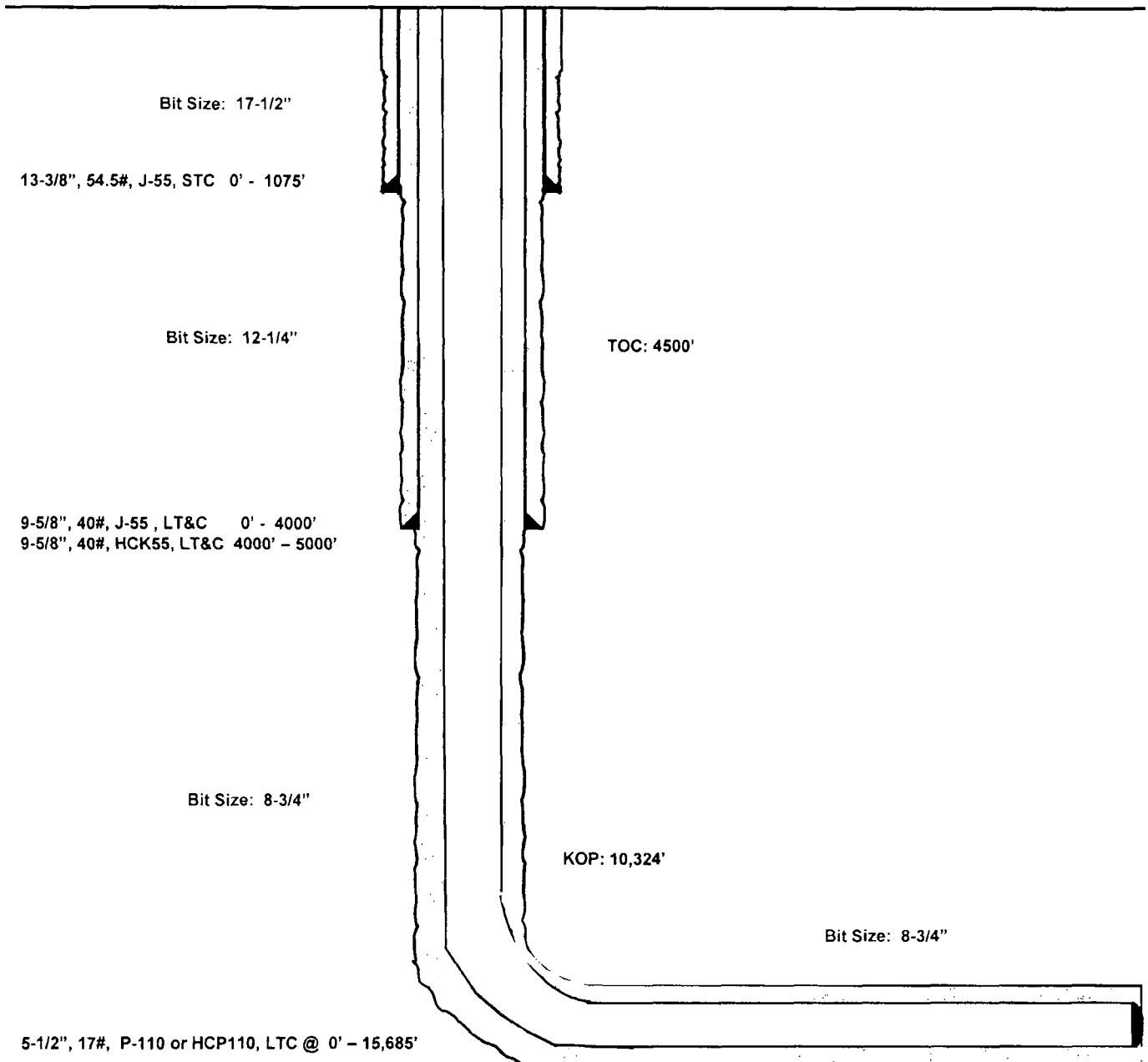
Lomas Rojas 26 State Com #501H
Lea County, New Mexico

330' FSL
875' FEL
Section 26
T-25-S, R-33-E

Proposed Wellbore

API: 30-025-

KB: 3,355'
GL: 3,330'



Lateral: 15,685' MD, 10,900' TVD

BH Location: 230' FNL & 380' FEL
Section 26
T-25-S, R-33-E



Lea County, NM (NAD 27 NME)
Lomas Rojas 26 State #501H
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 1886
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: 0.42°
Magnetic North: 8.73°
Magnetic Field
Strength: 48213.7 nT
Dip Angle: 59.89°
Date: 8/28/2014
Model: IGRF201014

To convert a Magnetic Direction to a Grid Direction, Add 8.73°
To convert a Magnetic Direction to a True Direction, Add 7.16° East
To convert a True Direction to a Grid Direction, Subtract 0.42°

WELL DETAILS: Lomas Rojas 26 State #501H

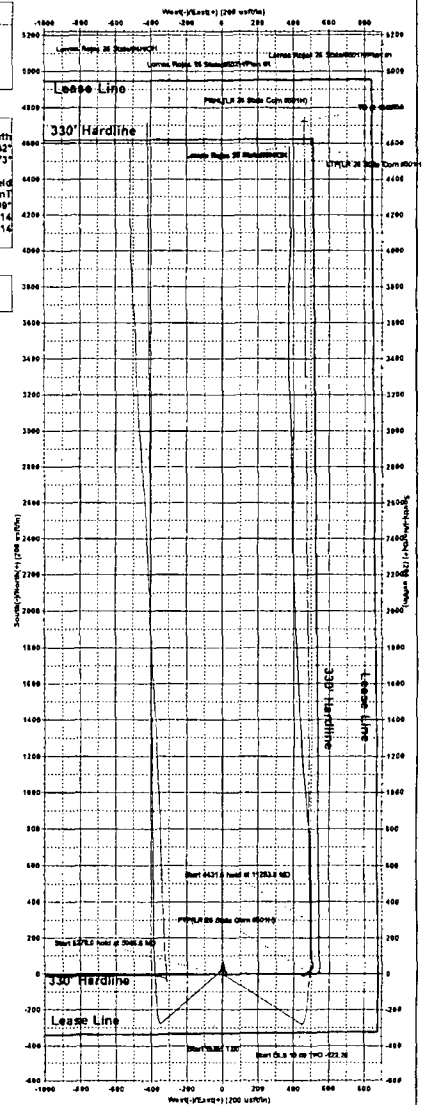
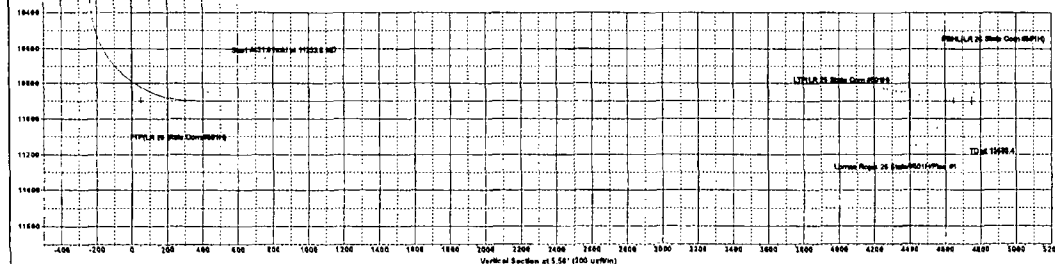
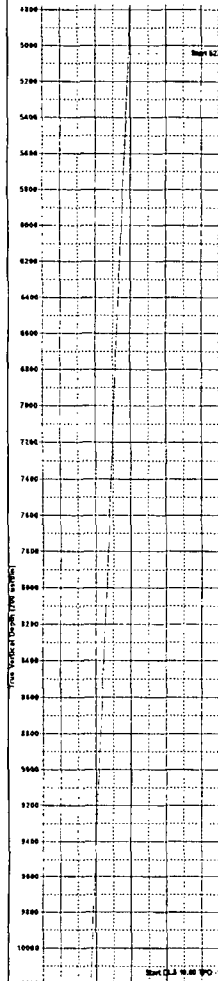
Ground Level: 3330.0
Northing: 399208.00
Easting: 746827.00
Longitude: 103° 52' 13.033 W
Latitude: 32° 5' 42.127 N

SECTION DETAILS

Sec	MD	INC	API	TVD	+N/S	+E/W	Dray	TFace	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0		
3	8044.8	6.47	121.97	8044.8	-15.8	22.1	1.00	121.97	-11.4		
4	10324.6	6.47	121.97	10324.6	-38.0	44.8	0.00	0.00	-236.2		
5	11253.8	90.00	358.56	10900.0	282.6	482.9	10.00	-122.28	338.9		
6	15655.4	90.00	358.56	10900.0	4724.0	480.0	0.00	0.00	4744.3		PEH(LR 26 State Com #501H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting	Shape
FPI(LR 26 State Com #501H)	10900.0	3.0	485.0	399211.00	747117.00	Point
LTP(LR 26 State Com #501H)	10900.0	4824.0	461.0	403832.00	747083.00	Point
PEH(LR 26 State Com #501H)	10900.0	4724.0	480.0	403832.00	747082.00	Point





HOBBS OCD

SEP 30 2014



RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Lomas Rojas 26 State

#501H

OH

Plan: Plan #1

Standard Planning Report

29 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: Lomas Rojas 26 State
Well: #501H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25 @ 3355.0usft
MD Reference: KB = 25 @ 3355.0usft
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	Lomas Rojas 26 State			
Site Position:		Northing:	399,208.00 usft	Latitude: 32° 5' 42.127 N
From:	Map	Easting:	746,622.00 usft	Longitude: 103° 32' 13.033 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.42 °

Well	#501H			
Well Position	+N/-S	0.0 usft	Northing: 399,208.00 usft	Latitude: 32° 5' 42.127 N
	+E/-W	0.0 usft	Easting: 746,622.00 usft	Longitude: 103° 32' 13.033 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,330.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	9/29/2014	7.16	59.99	48,214

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	5.56

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	
5,046.6	5.47	121.97	5,045.8	-13.8	22.1	1.00	1.00	0.00	121.97	
10,324.6	5.47	121.97	10,299.8	-280.0	448.6	0.00	0.00	0.00	0.00	
11,253.8	90.00	359.58	10,900.0	292.5	492.9	10.00	9.10	-13.17	-122.28	
15,685.4	90.00	359.58	10,900.0	4,724.0	460.0	0.00	0.00	0.00	0.00	PBHL(LR 26 State Cc



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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	1.00	121.97	4,600.0	-0.5	0.7	-0.4	1.00	1.00	0.00
4,700.0	2.00	121.97	4,700.0	-1.8	3.0	-1.6	1.00	1.00	0.00
4,800.0	3.00	121.97	4,799.9	-4.2	6.7	-3.5	1.00	1.00	0.00
4,900.0	4.00	121.97	4,899.7	-7.4	11.8	-6.2	1.00	1.00	0.00
5,000.0	5.00	121.97	4,999.4	-11.5	18.5	-9.7	1.00	1.00	0.00
5,046.6	5.47	121.97	5,045.8	-13.8	22.1	-11.6	1.00	1.00	0.00
5,100.0	5.47	121.97	5,098.9	-16.5	26.4	-13.9	0.00	0.00	0.00
5,200.0	5.47	121.97	5,198.5	-21.5	34.5	-18.1	0.00	0.00	0.00



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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	5.47	121.97	5,298.0	-26.6	42.6	-22.3	0.00	0.00	0.00
5,400.0	5.47	121.97	5,397.6	-31.6	50.7	-26.6	0.00	0.00	0.00
5,500.0	5.47	121.97	5,497.1	-36.7	58.7	-30.8	0.00	0.00	0.00
5,600.0	5.47	121.97	5,596.7	-41.7	66.8	-35.0	0.00	0.00	0.00
5,700.0	5.47	121.97	5,696.2	-46.8	74.9	-39.3	0.00	0.00	0.00
5,800.0	5.47	121.97	5,795.7	-51.8	83.0	-43.5	0.00	0.00	0.00
5,900.0	5.47	121.97	5,895.3	-56.8	91.1	-47.8	0.00	0.00	0.00
6,000.0	5.47	121.97	5,994.8	-61.9	99.1	-52.0	0.00	0.00	0.00
6,100.0	5.47	121.97	6,094.4	-66.9	107.2	-56.2	0.00	0.00	0.00
6,200.0	5.47	121.97	6,193.9	-72.0	115.3	-60.5	0.00	0.00	0.00
6,300.0	5.47	121.97	6,293.5	-77.0	123.4	-64.7	0.00	0.00	0.00
6,400.0	5.47	121.97	6,393.0	-82.1	131.5	-68.9	0.00	0.00	0.00
6,500.0	5.47	121.97	6,492.6	-87.1	139.5	-73.2	0.00	0.00	0.00
6,600.0	5.47	121.97	6,592.1	-92.2	147.6	-77.4	0.00	0.00	0.00
6,700.0	5.47	121.97	6,691.7	-97.2	155.7	-81.7	0.00	0.00	0.00
6,800.0	5.47	121.97	6,791.2	-102.2	163.8	-85.9	0.00	0.00	0.00
6,900.0	5.47	121.97	6,890.7	-107.3	171.9	-90.1	0.00	0.00	0.00
7,000.0	5.47	121.97	6,990.3	-112.3	179.9	-94.4	0.00	0.00	0.00
7,100.0	5.47	121.97	7,089.8	-117.4	188.0	-98.6	0.00	0.00	0.00
7,200.0	5.47	121.97	7,189.4	-122.4	196.1	-102.8	0.00	0.00	0.00
7,300.0	5.47	121.97	7,288.9	-127.5	204.2	-107.1	0.00	0.00	0.00
7,400.0	5.47	121.97	7,388.5	-132.5	212.3	-111.3	0.00	0.00	0.00
7,500.0	5.47	121.97	7,488.0	-137.6	220.4	-115.6	0.00	0.00	0.00
7,600.0	5.47	121.97	7,587.6	-142.6	228.4	-119.8	0.00	0.00	0.00
7,700.0	5.47	121.97	7,687.1	-147.6	236.5	-124.0	0.00	0.00	0.00
7,800.0	5.47	121.97	7,786.7	-152.7	244.6	-128.3	0.00	0.00	0.00
7,900.0	5.47	121.97	7,886.2	-157.7	252.7	-132.5	0.00	0.00	0.00
8,000.0	5.47	121.97	7,985.7	-162.8	260.8	-136.7	0.00	0.00	0.00
8,100.0	5.47	121.97	8,085.3	-167.8	268.8	-141.0	0.00	0.00	0.00
8,200.0	5.47	121.97	8,184.8	-172.9	276.9	-145.2	0.00	0.00	0.00
8,300.0	5.47	121.97	8,284.4	-177.9	285.0	-149.5	0.00	0.00	0.00
8,400.0	5.47	121.97	8,383.9	-183.0	293.1	-153.7	0.00	0.00	0.00
8,500.0	5.47	121.97	8,483.5	-188.0	301.2	-157.9	0.00	0.00	0.00
8,600.0	5.47	121.97	8,583.0	-193.0	309.2	-162.2	0.00	0.00	0.00
8,700.0	5.47	121.97	8,682.6	-198.1	317.3	-166.4	0.00	0.00	0.00
8,800.0	5.47	121.97	8,782.1	-203.1	325.4	-170.6	0.00	0.00	0.00
8,900.0	5.47	121.97	8,881.6	-208.2	333.5	-174.9	0.00	0.00	0.00
9,000.0	5.47	121.97	8,981.2	-213.2	341.6	-179.1	0.00	0.00	0.00
9,100.0	5.47	121.97	9,080.7	-218.3	349.6	-183.4	0.00	0.00	0.00
9,200.0	5.47	121.97	9,180.3	-223.3	357.7	-187.6	0.00	0.00	0.00
9,300.0	5.47	121.97	9,279.8	-228.3	365.8	-191.8	0.00	0.00	0.00
9,400.0	5.47	121.97	9,379.4	-233.4	373.9	-196.1	0.00	0.00	0.00
9,500.0	5.47	121.97	9,478.9	-238.4	382.0	-200.3	0.00	0.00	0.00
9,600.0	5.47	121.97	9,578.5	-243.5	390.0	-204.5	0.00	0.00	0.00
9,700.0	5.47	121.97	9,678.0	-248.5	398.1	-208.8	0.00	0.00	0.00
9,800.0	5.47	121.97	9,777.6	-253.6	406.2	-213.0	0.00	0.00	0.00
9,900.0	5.47	121.97	9,877.1	-258.6	414.3	-217.2	0.00	0.00	0.00
10,000.0	5.47	121.97	9,976.6	-263.7	422.4	-221.5	0.00	0.00	0.00
10,100.0	5.47	121.97	10,076.2	-268.7	430.5	-225.7	0.00	0.00	0.00
10,200.0	5.47	121.97	10,175.7	-273.7	438.5	-230.0	0.00	0.00	0.00
10,300.0	5.47	121.97	10,275.3	-278.8	446.6	-234.2	0.00	0.00	0.00
10,324.6	5.47	121.97	10,299.8	-280.0	448.6	-235.2	0.00	0.00	0.00
10,350.0	4.64	94.33	10,325.1	-280.8	450.6	-235.8	10.00	-3.27	-108.75
10,400.0	6.53	44.50	10,374.9	-278.9	454.7	-233.5	10.00	3.78	-99.66



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Lomas Rojas 26 State
Well: #501H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #501H
TVD Reference: KB = 25 @ 3355.0usft
MD Reference: KB = 25 @ 3355.0usft
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	10.66	25.00	10,424.3	-272.7	458.6	-226.9	10.00	8.26	-39.01
10,500.0	15.31	16.74	10,473.0	-262.1	462.5	-216.1	10.00	9.31	-16.52
10,550.0	20.13	12.31	10,520.6	-247.4	466.2	-201.1	10.00	9.64	-8.86
10,600.0	25.02	9.54	10,566.8	-228.6	469.8	-181.9	10.00	9.77	-5.53
10,650.0	29.94	7.64	10,611.1	-205.7	473.2	-158.9	10.00	9.85	-3.81
10,700.0	34.88	6.23	10,653.3	-179.1	476.4	-132.1	10.00	9.89	-2.82
10,750.0	39.84	5.13	10,693.1	-149.0	479.4	-101.8	10.00	9.91	-2.20
10,800.0	44.80	4.24	10,730.0	-115.4	482.1	-68.2	10.00	9.93	-1.78
10,850.0	49.77	3.49	10,763.9	-78.8	484.6	-31.4	10.00	9.94	-1.50
10,900.0	54.75	2.85	10,794.5	-39.3	486.8	8.1	10.00	9.95	-1.29
10,950.0	59.72	2.28	10,821.6	2.7	488.7	50.0	10.00	9.95	-1.14
10,987.1	63.41	1.89	10,839.2	35.2	489.8	82.5	10.00	9.96	-1.04
FTP(LR 26 State Com #501H)									
11,000.0	64.70	1.76	10,844.9	46.9	490.2	94.2	10.00	9.96	-1.00
11,050.0	69.69	1.29	10,864.2	92.9	491.4	140.1	10.00	9.96	-0.95
11,100.0	74.67	0.84	10,879.5	140.5	492.3	187.6	10.00	9.96	-0.89
11,150.0	79.65	0.42	10,890.6	189.2	492.9	236.1	10.00	9.97	-0.85
11,200.0	84.63	0.01	10,897.5	238.8	493.0	285.4	10.00	9.97	-0.82
11,253.8	90.00	359.58	10,900.0	292.5	492.9	338.9	10.00	9.97	-0.81
11,300.0	90.00	359.58	10,900.0	338.7	492.5	384.8	0.00	0.00	0.00
11,400.0	90.00	359.58	10,900.0	438.7	491.8	484.3	0.00	0.00	0.00
11,500.0	90.00	359.58	10,900.0	538.7	491.0	583.7	0.00	0.00	0.00
11,600.0	90.00	359.58	10,900.0	638.7	490.3	683.2	0.00	0.00	0.00
11,700.0	90.00	359.58	10,900.0	738.7	489.5	782.6	0.00	0.00	0.00
11,800.0	90.00	359.58	10,900.0	838.7	488.8	882.1	0.00	0.00	0.00
11,900.0	90.00	359.58	10,900.0	938.7	488.1	981.5	0.00	0.00	0.00
12,000.0	90.00	359.58	10,900.0	1,038.7	487.3	1,081.0	0.00	0.00	0.00
12,100.0	90.00	359.58	10,900.0	1,138.7	486.6	1,180.5	0.00	0.00	0.00
12,200.0	90.00	359.58	10,900.0	1,238.7	485.8	1,279.9	0.00	0.00	0.00
12,300.0	90.00	359.58	10,900.0	1,338.7	485.1	1,379.4	0.00	0.00	0.00
12,400.0	90.00	359.58	10,900.0	1,438.6	484.4	1,478.8	0.00	0.00	0.00
12,500.0	90.00	359.58	10,900.0	1,538.6	483.6	1,578.3	0.00	0.00	0.00
12,600.0	90.00	359.58	10,900.0	1,638.6	482.9	1,677.7	0.00	0.00	0.00
12,700.0	90.00	359.58	10,900.0	1,738.6	482.1	1,777.2	0.00	0.00	0.00
12,800.0	90.00	359.58	10,900.0	1,838.6	481.4	1,876.6	0.00	0.00	0.00
12,900.0	90.00	359.58	10,900.0	1,938.6	480.6	1,976.1	0.00	0.00	0.00
13,000.0	90.00	359.58	10,900.0	2,038.6	479.9	2,075.5	0.00	0.00	0.00
13,100.0	90.00	359.58	10,900.0	2,138.6	479.2	2,175.0	0.00	0.00	0.00
13,200.0	90.00	359.58	10,900.0	2,238.6	478.4	2,274.5	0.00	0.00	0.00
13,300.0	90.00	359.58	10,900.0	2,338.6	477.7	2,373.9	0.00	0.00	0.00
13,400.0	90.00	359.58	10,900.0	2,438.6	476.9	2,473.4	0.00	0.00	0.00
13,500.0	90.00	359.58	10,900.0	2,538.6	476.2	2,572.8	0.00	0.00	0.00
13,600.0	90.00	359.58	10,900.0	2,638.6	475.5	2,672.3	0.00	0.00	0.00
13,700.0	90.00	359.58	10,900.0	2,738.6	474.7	2,771.7	0.00	0.00	0.00
13,800.0	90.00	359.58	10,900.0	2,838.6	474.0	2,871.2	0.00	0.00	0.00
13,900.0	90.00	359.58	10,900.0	2,938.6	473.2	2,970.6	0.00	0.00	0.00
14,000.0	90.00	359.58	10,900.0	3,038.6	472.5	3,070.1	0.00	0.00	0.00
14,100.0	90.00	359.58	10,900.0	3,138.6	471.8	3,169.5	0.00	0.00	0.00
14,200.0	90.00	359.58	10,900.0	3,238.6	471.0	3,269.0	0.00	0.00	0.00
14,300.0	90.00	359.58	10,900.0	3,338.6	470.3	3,368.5	0.00	0.00	0.00
14,400.0	90.00	359.58	10,900.0	3,438.6	469.5	3,467.9	0.00	0.00	0.00
14,500.0	90.00	359.58	10,900.0	3,538.6	468.8	3,567.4	0.00	0.00	0.00
14,600.0	90.00	359.58	10,900.0	3,638.6	468.0	3,666.8	0.00	0.00	0.00



EOG Resources, Inc.

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Wellbore: OH
Design: Plan #1

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TVD Reference: KB = 25 @ 3355.0usft
MD Reference: KB = 25 @ 3355.0usft
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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
14,700.0	90.00	359.58	10,900.0	3,738.6	467.3	3,766.3	0.00	0.00	0.00
14,800.0	90.00	359.58	10,900.0	3,838.6	466.6	3,865.7	0.00	0.00	0.00
14,900.0	90.00	359.58	10,900.0	3,938.6	465.8	3,965.2	0.00	0.00	0.00
15,000.0	90.00	359.58	10,900.0	4,038.6	465.1	4,064.6	0.00	0.00	0.00
15,100.0	90.00	359.58	10,900.0	4,138.6	464.3	4,164.1	0.00	0.00	0.00
15,200.0	90.00	359.58	10,900.0	4,238.6	463.6	4,263.5	0.00	0.00	0.00
15,300.0	90.00	359.58	10,900.0	4,338.6	462.9	4,363.0	0.00	0.00	0.00
15,400.0	90.00	359.58	10,900.0	4,438.6	462.1	4,462.5	0.00	0.00	0.00
15,500.0	90.00	359.58	10,900.0	4,538.6	461.4	4,561.9	0.00	0.00	0.00
15,585.4	90.00	359.58	10,900.0	4,624.0	460.7	4,646.9	0.00	0.00	0.00
LTP(LR 26 State Com #501H)									
15,600.0	90.00	359.58	10,900.0	4,638.6	460.6	4,661.4	0.00	0.00	0.00
15,685.4	90.00	359.58	10,900.0	4,724.0	460.0	4,746.3	0.00	0.00	0.00
PBHL(LR 26 State Com #501H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(LR 26 State Com #	0.00	0.01	10,900.0	3.0	495.0	399,211.00	747,117.00	32° 5' 42.120 N	103° 32' 7.279 W
- hit/miss target									
- Shape									
- plan misses target center by 69.0usft at 10987.1usft MD (10839.2 TVD, 35.2 N, 489.8 E)									
- Point									
PBHL(LR 26 State Com	0.00	0.00	10,900.0	4,724.0	460.0	403,932.00	747,082.00	32° 6' 28.840 N	103° 32' 7.279 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									
LTP(LR 26 State Com #:	0.00	0.00	10,900.0	4,624.0	461.0	403,832.00	747,083.00	32° 6' 27.850 N	103° 32' 7.276 W
- hit/miss target									
- Shape									
- plan misses target center by 0.3usft at 15585.4usft MD (10900.0 TVD, 4624.0 N, 460.7 E)									
- Point									