

JUL 28 2014

Revised Permit Information:

Well Name: Ruby 2 State Com No. 2H

Location:

SL: 220' FSL & 652' FWL, Section 2, T-26-S, R-34-E, Lea Co., N.M.

BHL: 230' FNL & 880' FWL, Section 2, T-26-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 – 965'	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'-17,157'	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
965'	500	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
5,200'	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
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
17,157'	400	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
	550	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
	1350	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:

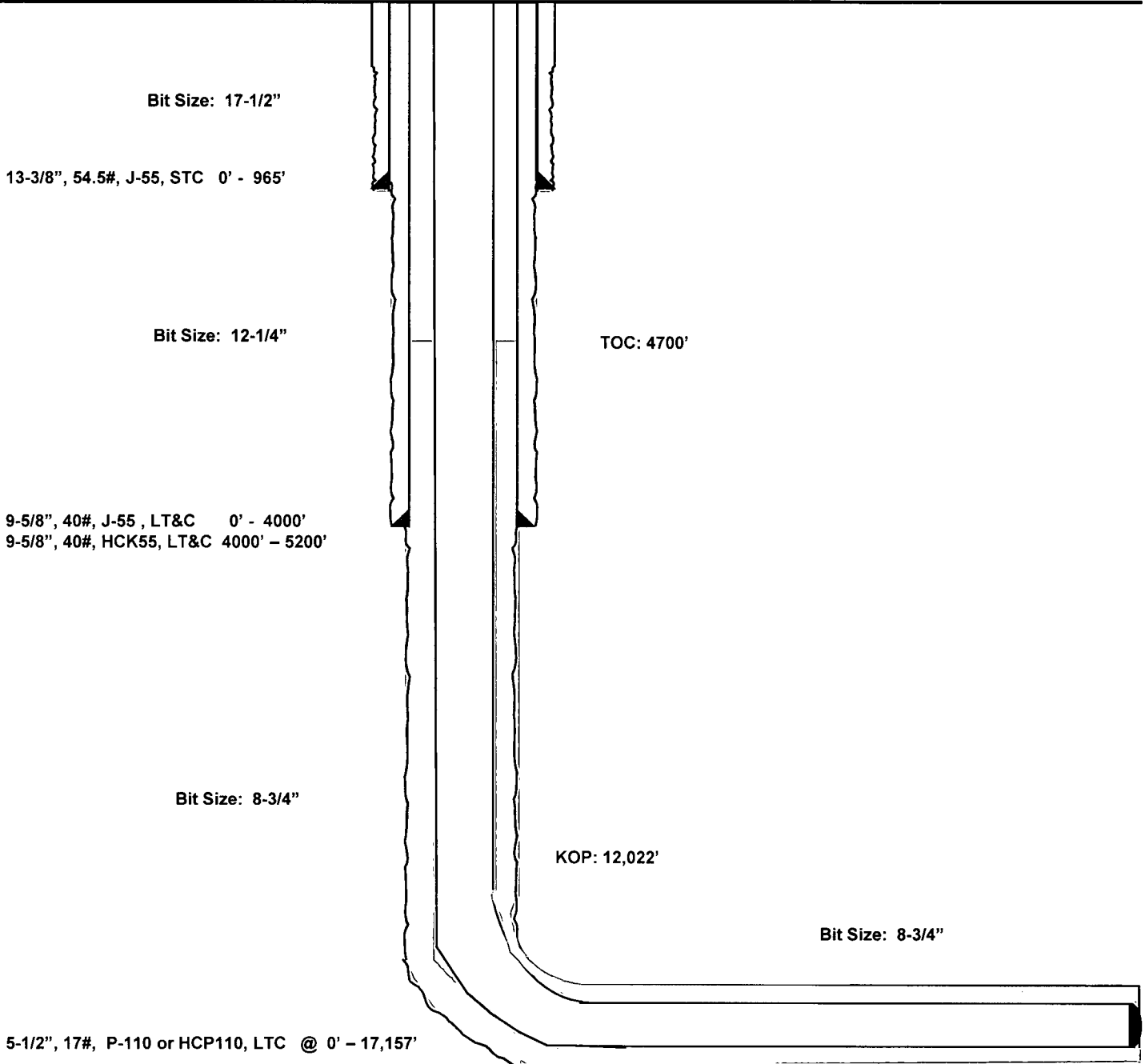
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 965'	Fresh - Gel	8.6-8.8	28-34	N/c
965' – 5,200'	Brine	10.0-10.2	28-34	N/c
5,200' – 12,022'	Cut Brine	8.4-9.0	28-34	N/c
KOP – 17,157' Lateral	Cut Brine	9.0-9.5	40-42	8-10

Ruby 2 State Com #1H
Red Hills
Lea County, New Mexico

220' FSL
622' FWL
Section 2
T-26-S, R-34-E

Revised
Proposed Wellbore
API: 30-025-41821

KB: 3,341'
GL: 3,311'



Lateral: 17,157' MD, 12,432' TVD

BH Location: 230' FNL & 380' FWL
Section 2
T-26-S, R-34-E



Lea County, NM (NAD 27 NME)

Ruby 2 State Com #1H

3311' GL + 30' KB

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 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
 True North: -0.47°
 Magnetic North: 6.69°
 Magnetic Field
 Strength: 48247.3nT
 Dip Angle: 59.99°
 Date: 4/30/2014
 Model: IGRF201014

To convert a Magnetic Direction to a Grid Direction, Add 6.69°
To convert a Magnetic Direction to a True Direction, Add 7.16° East
To convert a True Direction to a Grid Direction, Subtract 0.47°

WELL DETAILS: Ruby 2 State Corn #1H

Ground Level: 3311.0

Well @ 3341.0usft (3311' GL + 30' KB)

+N/-S +E/-W Northin

0.0	0.0	388748.0
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774632.00 32° 3' 56.457 N

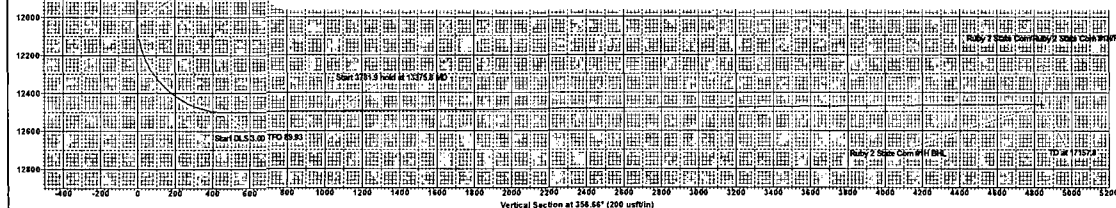
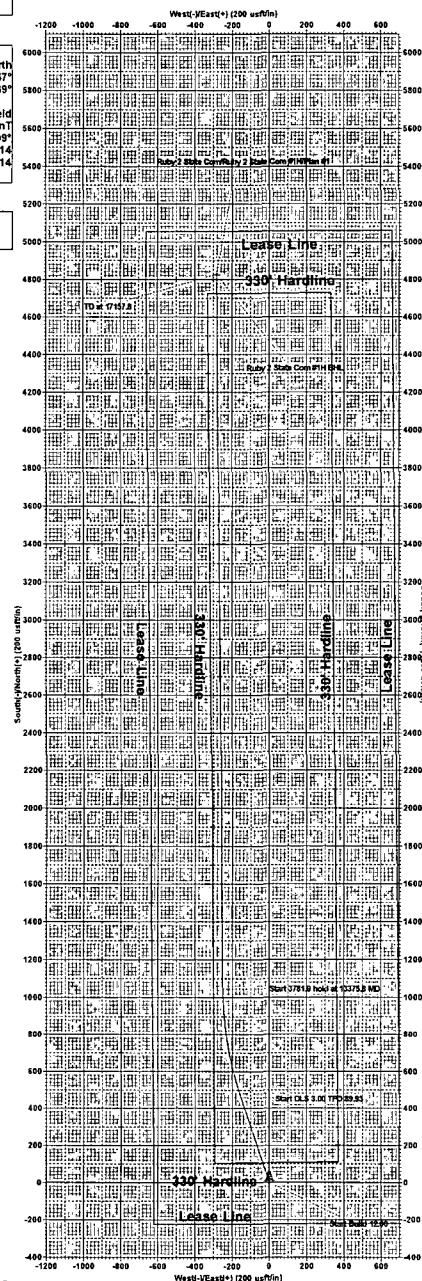
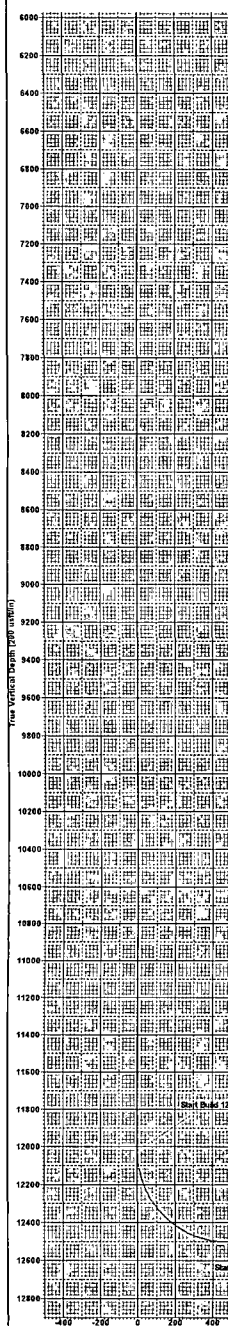
25° 48.449 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	12922.6	0.00	0.00	12922.8	0.0	0.0	0.00	0.00	0.0		
3	12776.8	90.50	341.65	12500.0	456.9	-152.4	12.00	341.95	465.0		
4	13375.8	90.50	359.52	12434.8	1045.4	-250.5	3.00	89.93	1058.2		
5	17157.8	90.50	359.52	12462.0	4827.0	-282.0	0.00	0.00	0.00	Ruby 2 State Conn #1H BHL	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Ruby 2 State Com #1H BHL	12462.0	4827.0	-282.0	393575.00	774350.00	Point



1 + 4 County Hall (p. 21) 27 HME
May 2 State Open
July 2 State Open 27 H
24' 1" DL - 20' 1" H
On
May 21



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Ruby 2 State Com

Ruby 2 State Com #1H

OH

Plan: Plan #1

Standard Planning Report

18 July, 2014



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Ruby 2 State Com #1H
Company:	EOG Resources - Midland	TVD Reference:	Well @ 3341.0usft (3311' GL + 30' KB)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	Well @ 3341.0usft (3311' GL + 30' KB)
Site:	Ruby 2 State Com	North Reference:	Grid
Well:	Ruby 2 State Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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		Ruby 2 State Com			
Site Position:		Northing:	388,748.00 usft	Latitude:	32° 3' 56.457 N
From:	Map	Easting:	774,632.00 usft	Longitude:	103° 26' 48.449 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	Ruby 2 State Com #1H					
Well Position	+N/-S	0.0 usft	Northing:	388,748.00 usft	Latitude:	32° 3' 56.457 N
	+E/-W	0.0 usft	Easting:	774,632.00 usft	Longitude:	103° 26' 48.449 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,311.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	4/30/2014	7.16	59.99	48,247

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	356.66

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	
12,022.6	0.00	0.00	12,022.6	0.0	0.0	0.00	0.00	0.00	0.00	
12,776.8	90.50	341.55	12,500.0	456.9	-152.4	12.00	12.00	0.00	341.55	
13,375.8	90.50	359.52	12,494.8	1,045.4	-250.5	3.00	0.00	3.00	89.93	
17,157.8	90.50	359.52	12,462.0	4,827.0	-282.0	0.00	0.00	0.00	0.00	Ruby 2 State Com #1



EOG Resources, Inc.

Planning Report

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 Project: Lea County, NM (NAD 27 NME)
 Site: Ruby 2 State Com
 Well: Ruby 2 State Com #1H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well Ruby 2 State Com #1H
 TVD Reference: Well @ 3341.0usft (3311' GL + 30' KB)
 MD Reference: Well @ 3341.0usft (3311' GL + 30' KB)
 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



EOG Resources, Inc.

Planning Report

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Wellbore: OH
Design: Plan #1

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Planned Survey

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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
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Ruby 2 State Com #1H
Company:	EOG Resources - Midland	TVD Reference:	Well @ 3341.0usft (3311' GL + 30' KB)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	Well @ 3341.0usft (3311' GL + 30' KB)
Site:	Ruby 2 State Com	North Reference:	Grid
Well:	Ruby 2 State Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	0.00	0.00	0.00
10,900.0	0.00	0.00	10,900.0	0.0	0.0	0.0	0.00	0.00	0.00
11,000.0	0.00	0.00	11,000.0	0.0	0.0	0.0	0.00	0.00	0.00
11,100.0	0.00	0.00	11,100.0	0.0	0.0	0.0	0.00	0.00	0.00
11,200.0	0.00	0.00	11,200.0	0.0	0.0	0.0	0.00	0.00	0.00
11,300.0	0.00	0.00	11,300.0	0.0	0.0	0.0	0.00	0.00	0.00
11,400.0	0.00	0.00	11,400.0	0.0	0.0	0.0	0.00	0.00	0.00
11,500.0	0.00	0.00	11,500.0	0.0	0.0	0.0	0.00	0.00	0.00
11,600.0	0.00	0.00	11,600.0	0.0	0.0	0.0	0.00	0.00	0.00
11,700.0	0.00	0.00	11,700.0	0.0	0.0	0.0	0.00	0.00	0.00
11,800.0	0.00	0.00	11,800.0	0.0	0.0	0.0	0.00	0.00	0.00
11,900.0	0.00	0.00	11,900.0	0.0	0.0	0.0	0.00	0.00	0.00
12,000.0	0.00	0.00	12,000.0	0.0	0.0	0.0	0.00	0.00	0.00
12,022.6	0.00	0.00	12,022.6	0.0	0.0	0.0	0.00	0.00	0.00
12,025.0	0.29	341.55	12,025.0	0.0	0.0	0.0	12.00	12.00	0.00
12,050.0	3.29	341.55	12,050.0	0.7	-0.2	0.8	12.00	12.00	0.00
12,075.0	6.29	341.55	12,074.9	2.7	-0.9	2.8	12.00	12.00	0.00
12,100.0	9.29	341.55	12,099.7	5.9	-2.0	6.0	12.00	12.00	0.00
12,125.0	12.29	341.55	12,124.2	10.4	-3.5	10.6	12.00	12.00	0.00
12,150.0	15.29	341.55	12,148.5	16.0	-5.3	16.3	12.00	12.00	0.00
12,175.0	18.29	341.55	12,172.4	22.9	-7.6	23.3	12.00	12.00	0.00
12,200.0	21.29	341.55	12,195.9	30.9	-10.3	31.5	12.00	12.00	0.00
12,225.0	24.29	341.55	12,219.0	40.1	-13.4	40.8	12.00	12.00	0.00
12,250.0	27.29	341.55	12,241.5	50.4	-16.8	51.3	12.00	12.00	0.00
12,275.0	30.29	341.55	12,263.4	61.8	-20.6	62.9	12.00	12.00	0.00
12,300.0	33.29	341.55	12,284.7	74.3	-24.8	75.6	12.00	12.00	0.00
12,325.0	36.29	341.55	12,305.2	87.8	-29.3	89.4	12.00	12.00	0.00
12,350.0	39.29	341.55	12,324.9	102.4	-34.2	104.2	12.00	12.00	0.00
12,375.0	42.29	341.55	12,343.9	117.9	-39.3	120.0	12.00	12.00	0.00
12,400.0	45.29	341.55	12,361.9	134.3	-44.8	136.7	12.00	12.00	0.00
12,425.0	48.29	341.55	12,379.0	151.6	-50.6	154.2	12.00	12.00	0.00
12,450.0	51.29	341.55	12,395.2	169.7	-56.6	172.7	12.00	12.00	0.00
12,475.0	54.29	341.55	12,410.3	188.5	-62.9	191.9	12.00	12.00	0.00
12,500.0	57.29	341.55	12,424.3	208.2	-69.4	211.9	12.00	12.00	0.00
12,525.0	60.29	341.55	12,437.3	228.4	-76.2	232.5	12.00	12.00	0.00
12,550.0	63.29	341.55	12,449.1	249.3	-83.2	253.8	12.00	12.00	0.00
12,575.0	66.29	341.55	12,459.8	270.8	-90.3	275.6	12.00	12.00	0.00
12,600.0	69.29	341.55	12,469.2	292.7	-97.7	297.9	12.00	12.00	0.00
12,625.0	72.29	341.55	12,477.4	315.1	-105.1	320.7	12.00	12.00	0.00
12,650.0	75.29	341.55	12,484.4	337.9	-112.7	343.9	12.00	12.00	0.00
12,675.0	78.29	341.55	12,490.1	361.0	-120.4	367.4	12.00	12.00	0.00
12,700.0	81.29	341.55	12,494.6	384.3	-128.2	391.1	12.00	12.00	0.00
12,725.0	84.29	341.55	12,497.7	407.8	-136.1	415.1	12.00	12.00	0.00
12,750.0	87.29	341.55	12,499.5	431.5	-144.0	439.2	12.00	12.00	0.00
12,776.8	90.50	341.55	12,500.0	456.9	-152.4	465.0	12.00	12.00	0.00
12,800.0	90.50	342.25	12,499.8	479.0	-159.6	487.5	3.00	0.00	3.00
12,900.0	90.50	345.25	12,499.0	574.9	-187.6	584.9	3.00	0.00	3.00
13,000.0	90.50	348.25	12,498.1	672.3	-210.5	683.4	3.00	0.00	3.00
13,100.0	90.50	351.25	12,497.2	770.7	-228.3	782.7	3.00	0.00	3.00
13,200.0	90.50	354.25	12,496.3	869.8	-241.0	882.4	3.00	0.00	3.00
13,300.0	90.50	357.25	12,495.5	969.6	-248.4	982.4	3.00	0.00	3.00
13,375.8	90.50	359.52	12,494.8	1,045.4	-250.5	1,058.2	3.00	0.00	3.00
13,400.0	90.50	359.52	12,494.6	1,069.5	-250.7	1,082.3	0.00	0.00	0.00
13,500.0	90.50	359.52	12,493.7	1,169.5	-251.6	1,182.2	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Company:	EOG Resources - Midland	TVD Reference:	Well @ 3341.0usft (3311' GL + 30' KB)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	Well @ 3341.0usft (3311' GL + 30' KB)
Site:	Ruby 2 State Com	North Reference:	Grid
Well:	Ruby 2 State Com #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
13,600.0	90.50	359.52	12,492.8	1,269.5	-252.4	1,282.1	0.00	0.00	0.00
13,700.0	90.50	359.52	12,492.0	1,369.5	-253.2	1,381.9	0.00	0.00	0.00
13,800.0	90.50	359.52	12,491.1	1,469.5	-254.0	1,481.8	0.00	0.00	0.00
13,900.0	90.50	359.52	12,490.2	1,569.5	-254.9	1,581.7	0.00	0.00	0.00
14,000.0	90.50	359.52	12,489.4	1,669.5	-255.7	1,681.5	0.00	0.00	0.00
14,100.0	90.50	359.52	12,488.5	1,769.5	-256.5	1,781.4	0.00	0.00	0.00
14,200.0	90.50	359.52	12,487.6	1,869.5	-257.4	1,881.3	0.00	0.00	0.00
14,300.0	90.50	359.52	12,486.8	1,969.4	-258.2	1,981.2	0.00	0.00	0.00
14,400.0	90.50	359.52	12,485.9	2,069.4	-259.0	2,081.0	0.00	0.00	0.00
14,500.0	90.50	359.52	12,485.0	2,169.4	-259.9	2,180.9	0.00	0.00	0.00
14,600.0	90.50	359.52	12,484.2	2,269.4	-260.7	2,280.8	0.00	0.00	0.00
14,700.0	90.50	359.52	12,483.3	2,369.4	-261.5	2,380.6	0.00	0.00	0.00
14,800.0	90.50	359.52	12,482.4	2,469.4	-262.4	2,480.5	0.00	0.00	0.00
14,900.0	90.50	359.52	12,481.6	2,569.4	-263.2	2,580.4	0.00	0.00	0.00
15,000.0	90.50	359.52	12,480.7	2,669.4	-264.0	2,680.3	0.00	0.00	0.00
15,100.0	90.50	359.52	12,479.8	2,769.4	-264.9	2,780.1	0.00	0.00	0.00
15,200.0	90.50	359.52	12,479.0	2,869.4	-265.7	2,880.0	0.00	0.00	0.00
15,300.0	90.50	359.52	12,478.1	2,969.4	-266.5	2,979.9	0.00	0.00	0.00
15,400.0	90.50	359.52	12,477.2	3,069.4	-267.4	3,079.7	0.00	0.00	0.00
15,500.0	90.50	359.52	12,476.4	3,169.4	-268.2	3,179.6	0.00	0.00	0.00
15,600.0	90.50	359.52	12,475.5	3,269.4	-269.0	3,279.5	0.00	0.00	0.00
15,700.0	90.50	359.52	12,474.6	3,369.3	-269.9	3,379.3	0.00	0.00	0.00
15,800.0	90.50	359.52	12,473.8	3,469.3	-270.7	3,479.2	0.00	0.00	0.00
15,900.0	90.50	359.52	12,472.9	3,569.3	-271.5	3,579.1	0.00	0.00	0.00
16,000.0	90.50	359.52	12,472.0	3,669.3	-272.4	3,679.0	0.00	0.00	0.00
16,100.0	90.50	359.52	12,471.2	3,769.3	-273.2	3,778.8	0.00	0.00	0.00
16,200.0	90.50	359.52	12,470.3	3,869.3	-274.0	3,878.7	0.00	0.00	0.00
16,300.0	90.50	359.52	12,469.4	3,969.3	-274.9	3,978.6	0.00	0.00	0.00
16,400.0	90.50	359.52	12,468.6	4,069.3	-275.7	4,078.4	0.00	0.00	0.00
16,500.0	90.50	359.52	12,467.7	4,169.3	-276.5	4,178.3	0.00	0.00	0.00
16,600.0	90.50	359.52	12,466.8	4,269.3	-277.4	4,278.2	0.00	0.00	0.00
16,700.0	90.50	359.52	12,466.0	4,369.3	-278.2	4,378.1	0.00	0.00	0.00
16,800.0	90.50	359.52	12,465.1	4,469.3	-279.0	4,477.9	0.00	0.00	0.00
16,900.0	90.50	359.52	12,464.2	4,569.3	-279.9	4,577.8	0.00	0.00	0.00
17,000.0	90.50	359.52	12,463.4	4,669.3	-280.7	4,677.7	0.00	0.00	0.00
17,100.0	90.50	359.52	12,462.5	4,769.2	-281.5	4,777.5	0.00	0.00	0.00
17,157.8	90.50	359.52	12,462.0	4,827.0	-282.0	4,835.2	0.00	0.00	0.00

Ruby 2 State Com #1H BHL

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ruby 2 State Com #1H I	0.00	0.01	12,462.0	4,827.0	-282.0	393,575.00	774,350.00	32° 4' 44.246 N	103° 26' 51.266 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									