

Submit 1 Copy To Appropriate District
Office

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103

Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-41821
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG Resources, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 2267 Midland, TX 79702		7. Lease Name or Unit Agreement Name Ruby 2 State Com
4. Well Location Unit Letter M : 220 feet from the South line and 622 feet from the West line Section 2 Township 26S Range 34E NMPM County Lea		8. Well Number 1H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3311' GR		9. OGRID Number 7377
		10. Pool name or Wildcat Hardin Tank; Bone Spring

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: Completion ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources requests a change in the APD for this well to reflect a change in total depth and pool as attached on the revised drill plan.

TD change from 14297' MD, 9640' TVD TO 17157' MD, 12432' TVD.
New Pool: Hardin Tank; Bone Spring (96661)

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 8/26/14

Type or print name Stan Wagner E-mail address: PHONE: 432-686-3689

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 08/29/14

Conditions of Approval (if any):

E-PERMITTING CHNG TD K2
P&A NR P&A R
INT to P&A CHNG POOL K2
CSNG Chng Loc
TA CARRS

SEP 03 2014

Revised Permit Information:

Well Name: Ruby 2 State Com No. 1H

Location:

SL: 220' FSL & 622' FWL, Section 2, T-26-S, R-34-E, Lea Co., N.M.

BHL: 230' FNL & 380' 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

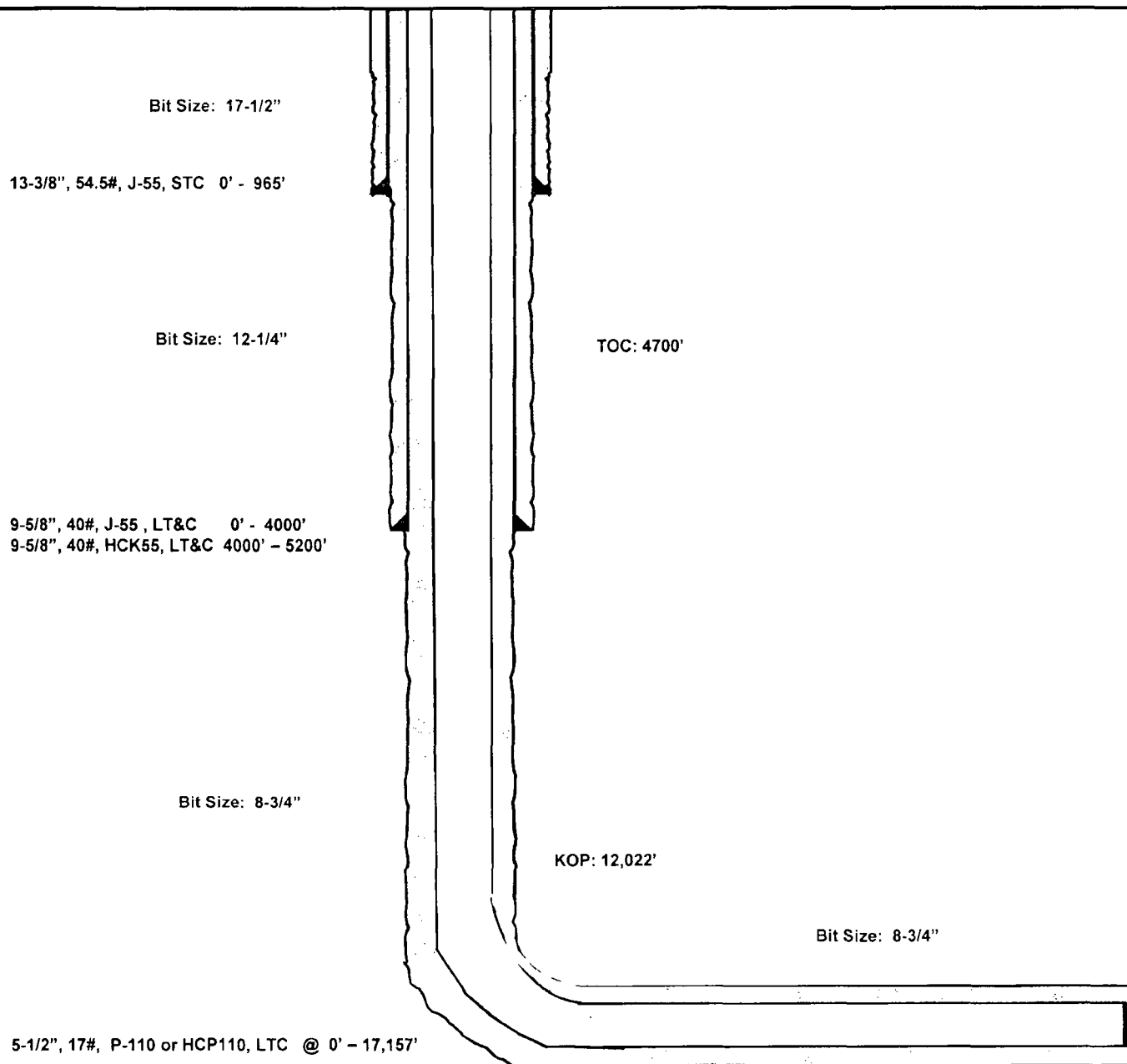
Ruby 2 State Com #1H
Red Hills
Lea County, New Mexico

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 1844
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: 48247.3 nT
Dip Angle: 59.89°
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 Com #1H

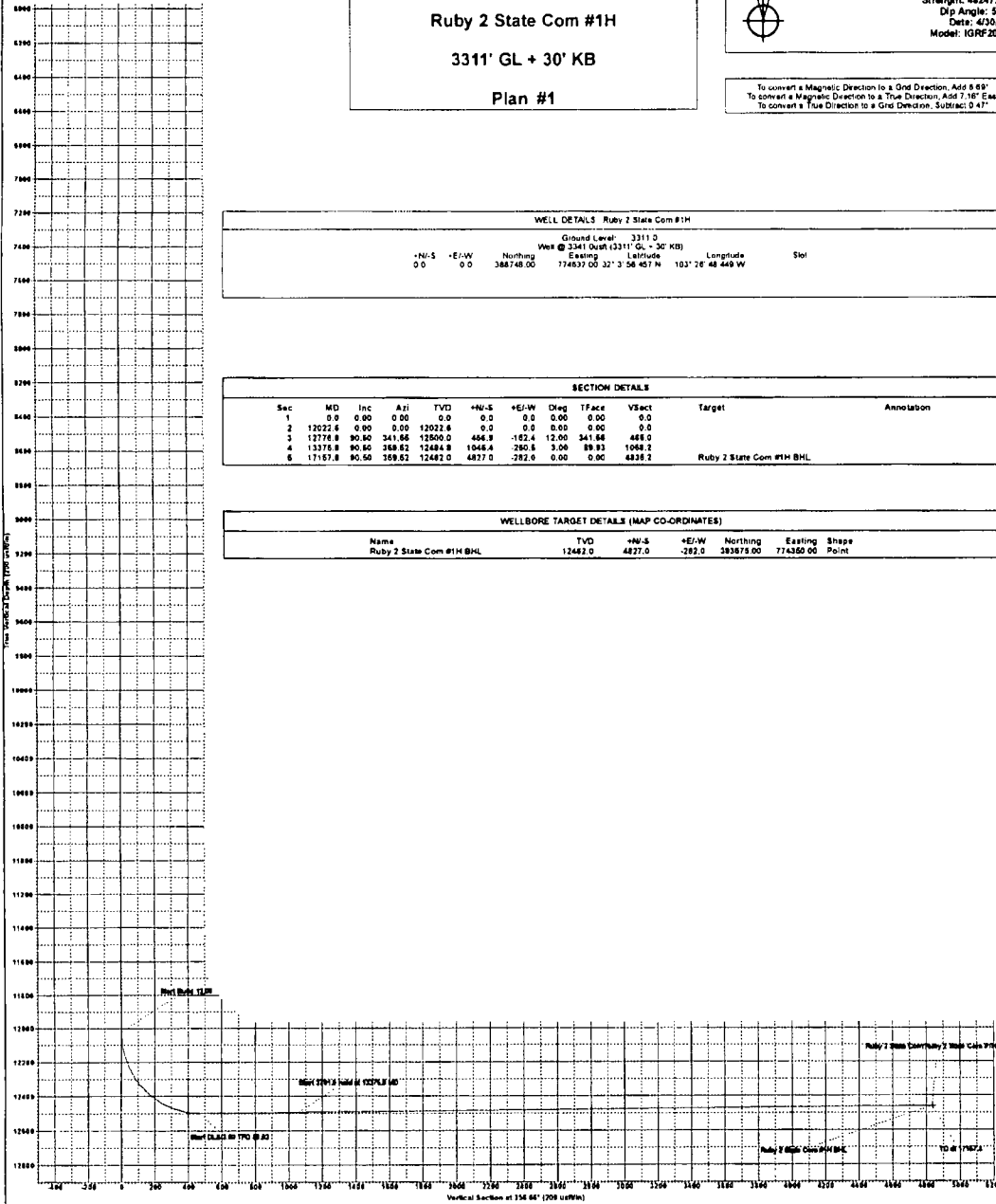
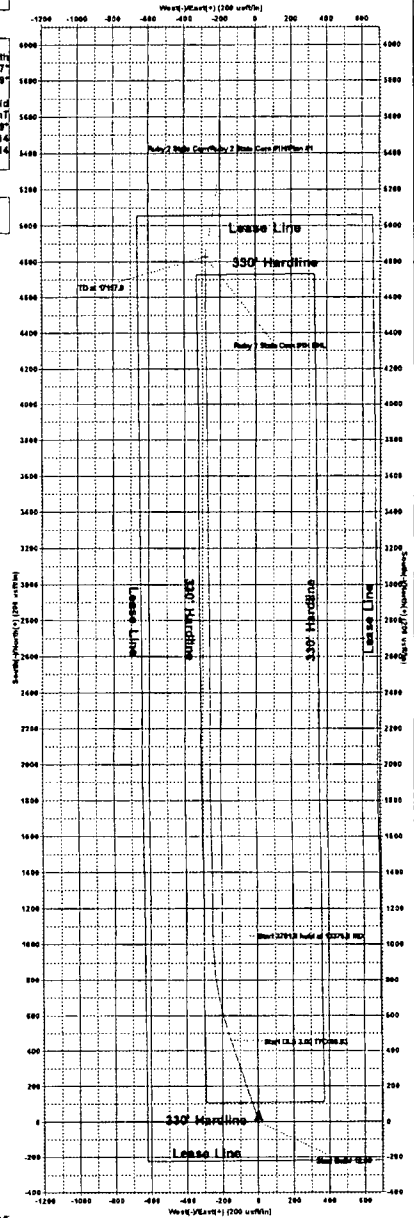
Ground Level: 3311.0
Well @ 3341' Depth (3311' GL + 30' KB)
Northing: 386748.00
Easting: 774637.00
Longitude: 103° 26' 48.449 W
State: NM

SECTION DETAILS

Sec	MD	Inc	ATI	TVD	+N/S	+E/W	Chg	TFace	VSet	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	12022.6	0.00	0.00	12022.6	0.0	0.0	0.00	0.00	0.0		
3	12778.6	90.50	341.96	12960.0	466.9	-162.4	12.00	341.96	485.0		
4	13375.8	90.50	359.52	12884.8	1046.4	-250.5	3.00	89.93	1048.2		
5	17167.8	90.50	359.52	12482.0	4827.0	-282.0	0.00	0.00	4838.2	Ruby 2 State Com #1H BHL	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name: Ruby 2 State Com #1H BHL
TVD: 12482.0
+N/S: 4827.0
+E/W: -282.0
Northing: 393675.00
Easting: 774360.00
Shape: Point





HOBBS CO.

AUG 27 2014

RECEIVED

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
Company: EOG Resources - Midland
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

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
	+E/-W	0.0 usft	Easting:	774,632.00 usft
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

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
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

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
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)
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



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Well: Ruby 2 State Com #1H
Wellbore: OH
Design: Plan #1

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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)
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	458.9	-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



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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)
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									