

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 88211
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
HOBBS OOD CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-46032
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 325728
7. Lease Name or Unit Agreement Name ADDER 31 STATE
8. Well Number 504H
9. OGRID Number 7377
10. Pool name or Wildcat [97964] WC-025 G-07 S243225C; LWR BONE SPRIN

SUNRISE 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.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator EOG Resources	
3. Address of Operator PO BOX 2267, MIDLAND, TX 79702	
4. Well Location Unit Letter <u>O</u> : <u>311</u> feet from the <u>SOUTH</u> line and <u>1963</u> feet from the <u>East</u> line Section <u>31</u> Township <u>24S</u> Range <u>33E</u> NMPM County <u>LEA COUNTY NM</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3502 GL	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: Changes to original APD ☐		OTHER: ☐	

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 respectfully request an amendment to our approved ADP for this well to reflect the following changes:

BHL change from Sec. 31 T24S R33E 100'FNL & 2370' FEL to SEC 31 T24S R-33E 100' FNL & 2150' FEL

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 Emily Follis TITLE Sr. Regulatory Administrator DATE 07/16/19

Type or print name Emily Follis E-mail address: emily_follis@eog.com PHONE: 432-848-9163

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 07/22/19

Conditions of Approval (if any):

HOBBS OCD

JUL 18 2019

RECEIVED

**Adder 31 State #504H
Lea County, New Mexico**

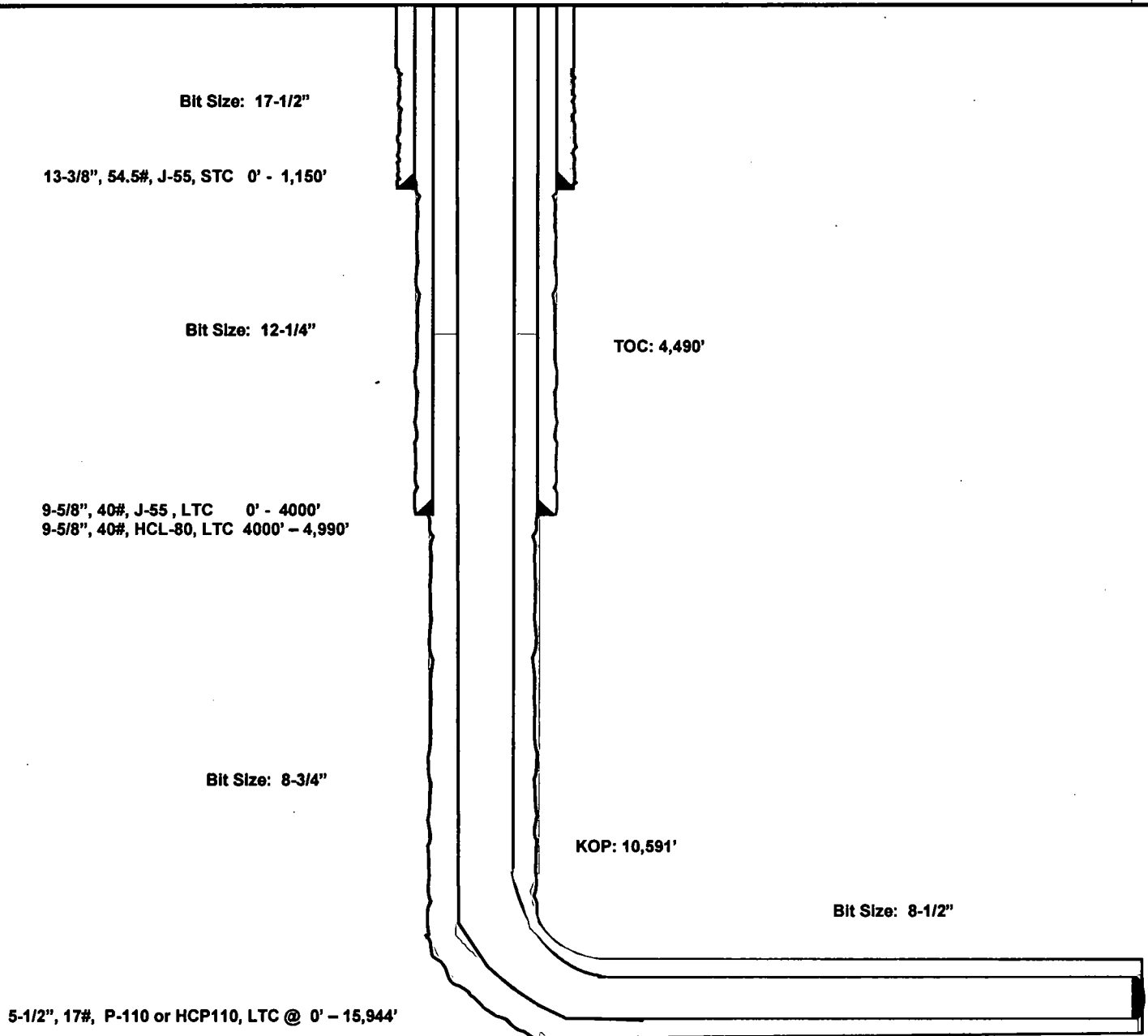
Revised Wellbore 7/11/19

API: 30-025-46032

KB: 3,527'

GL: 3,502'

**311' FSL
1963' FEL
Section 31
T-24-S, R-33-E**



**Lateral: 15,944' MD, 11,064' TVD
BH Location: 100' FNL & 2150' FEL
Section 31
T-24-S, R-33-E**

EOG RESOURCES, INC.**Adder 31 State #504H****Revised Permit Information 7/11/2019:****Well Name: Adder 31 State No. 504H****Location:****SHL: 311' FSL & 1963' FEL, Section 31, T-24-S, R-33-E, Lea Co., N.M.****BHL: 100' FNL & 2150' FEL, Section 31, T-24-S, R-33-E, Lea Co., N.M.****HOBBS OCD****JUL 18 2019****RECEIVED****Casing Program:**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0' - 1,150'	13.375"	54.5#	J-55	STC	1.125	1.25	1.60
12.25"	0' - 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4000' - 4,990'	9.625"	40#	HCL-80	LTC	1.125	1.25	1.60
8.75"	0' - 11,341'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	11,341' - 15,944'	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
1,150'	494	13.5	1.73	Lead: Class C + 4.0% Bentonite + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	157	14.8	1.34	Tail: Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
4,990'	454	9.0	3.5	Lead: Class C + 10% NaCl + 6% Bentonite Gel + 3% MagOx (TOC @ Surface)
	344	14.4	1.20	Tail: Class C + 10% NaCl + 3% MagOx
15,944'	591	11.0	3.21	Lead: Class C + 3% CaCl ₂ + 3% Microbond (TOC @ 4,490')
	1427	14.4	1.2	Tail: Class H + 0.4% Halad-344 + 0.35% HR-601 + 3% Microbond

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0' - 1,150'	Fresh - Gel	8.6-8.8	28-34	N/c
1,150' - 4,990'	Brine	10.0-10.2	28-34	N/c
4,990' - 10,591'	Cut Brine	8.4-9.0	28-34	N/c
10,591' - 15,944' Lateral	Oil Base	9.0-9.5	40-42	8-10



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Adder 31 State

#504H

OH

Plan: Plan #0.1

HOBBS OCD

JUL 18 2019

RECEIVED

Standard Planning Report

16 July, 2019



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #504H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3527.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3527.0usft
Site:	Adder 31 State	North Reference:	Grid
Well:	#504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Adder 31 State		
Site Position:	Northing:	425,513.00 usft	Latitude: 32° 10' 3.867 N
From: Map	Easting:	765,412.00 usft	Longitude: 103° 36' 33.017 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.39 °

Well	#504H		
Well Position	+N/-S	0.0 usft	Northing: 425,513.00 usft
	+E/-W	0.0 usft	Easting: 765,412.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,502.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	3/8/2019	6.78
			Dip Angle (°)
			59.98
			Field Strength (nT)
			47,723.13107135

Design	Plan #0.1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.0	0.0	0.0
			Direction (°)
			357.33

Plan Survey Tool Program	Date 7/16/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name
1	0.0	15,943.5 Plan #0.1 (OH)	MWD
			OWSG MWD - Standard
			Remarks

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	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,387.8	1.76	221.26	1,387.8	-1.0	-0.9	2.00	2.00	0.00	221.26	
10,503.0	1.76	221.26	10,498.7	-211.0	-185.1	0.00	0.00	0.00	0.00	
10,590.8	0.00	0.00	10,586.5	-212.0	-186.0	2.00	-2.00	0.00	180.00	KOP(Adder 31 State #
11,340.8	90.00	359.54	11,064.0	265.4	-189.9	12.00	12.00	-0.06	359.54	
15,943.5	90.00	359.54	11,064.0	4,868.0	-227.0	0.00	0.00	0.00	0.00	PBHL(Adder 31 State



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Adder 31 State
 Well: #504H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #504H
 TVD Reference: KB = 25 @ 3527.0usft
 MD Reference: KB = 25 @ 3527.0usft
 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
1,387.8	1.76	221.26	1,387.8	-1.0	-0.9	-1.0	2.00	2.00	0.00
1,400.0	1.76	221.26	1,400.0	-1.3	-1.1	-1.2	0.00	0.00	0.00
1,500.0	1.76	221.26	1,499.9	-3.6	-3.2	-3.4	0.00	0.00	0.00
1,600.0	1.76	221.26	1,599.9	-5.9	-5.2	-5.7	0.00	0.00	0.00
1,700.0	1.76	221.26	1,699.8	-8.2	-7.2	-7.9	0.00	0.00	0.00
1,800.0	1.76	221.26	1,799.8	-10.5	-9.2	-10.1	0.00	0.00	0.00
1,900.0	1.76	221.26	1,899.7	-12.8	-11.2	-12.3	0.00	0.00	0.00
2,000.0	1.76	221.26	1,999.7	-15.1	-13.3	-14.5	0.00	0.00	0.00
2,100.0	1.76	221.26	2,099.7	-17.4	-15.3	-16.7	0.00	0.00	0.00
2,200.0	1.76	221.26	2,199.6	-19.7	-17.3	-18.9	0.00	0.00	0.00
2,300.0	1.76	221.26	2,299.6	-22.0	-19.3	-21.1	0.00	0.00	0.00
2,400.0	1.76	221.26	2,399.5	-24.3	-21.3	-23.3	0.00	0.00	0.00
2,500.0	1.76	221.26	2,499.5	-26.6	-23.4	-25.5	0.00	0.00	0.00
2,600.0	1.76	221.26	2,599.4	-28.9	-25.4	-27.7	0.00	0.00	0.00
2,700.0	1.76	221.26	2,699.4	-31.2	-27.4	-29.9	0.00	0.00	0.00
2,800.0	1.76	221.26	2,799.3	-33.5	-29.4	-32.1	0.00	0.00	0.00
2,900.0	1.76	221.26	2,899.3	-35.8	-31.5	-34.3	0.00	0.00	0.00
3,000.0	1.76	221.26	2,999.2	-38.1	-33.5	-36.5	0.00	0.00	0.00
3,100.0	1.76	221.26	3,099.2	-40.5	-35.5	-38.8	0.00	0.00	0.00
3,200.0	1.76	221.26	3,199.1	-42.8	-37.5	-41.0	0.00	0.00	0.00
3,300.0	1.76	221.26	3,299.1	-45.1	-39.5	-43.2	0.00	0.00	0.00
3,400.0	1.76	221.26	3,399.0	-47.4	-41.6	-45.4	0.00	0.00	0.00
3,500.0	1.76	221.26	3,499.0	-49.7	-43.6	-47.6	0.00	0.00	0.00
3,600.0	1.76	221.26	3,598.9	-52.0	-45.6	-49.8	0.00	0.00	0.00
3,700.0	1.76	221.26	3,698.9	-54.3	-47.6	-52.0	0.00	0.00	0.00
3,800.0	1.76	221.26	3,798.9	-56.6	-49.6	-54.2	0.00	0.00	0.00
3,900.0	1.76	221.26	3,898.8	-58.9	-51.7	-56.4	0.00	0.00	0.00
4,000.0	1.76	221.26	3,998.8	-61.2	-53.7	-58.6	0.00	0.00	0.00
4,100.0	1.76	221.26	4,098.7	-63.5	-55.7	-60.8	0.00	0.00	0.00
4,200.0	1.76	221.26	4,198.7	-65.8	-57.7	-63.0	0.00	0.00	0.00
4,300.0	1.76	221.26	4,298.6	-68.1	-59.7	-65.2	0.00	0.00	0.00
4,400.0	1.76	221.26	4,398.6	-70.4	-61.8	-67.4	0.00	0.00	0.00
4,500.0	1.76	221.26	4,498.5	-72.7	-63.8	-69.7	0.00	0.00	0.00
4,600.0	1.76	221.26	4,598.5	-75.0	-65.8	-71.9	0.00	0.00	0.00
4,700.0	1.76	221.26	4,698.4	-77.3	-67.8	-74.1	0.00	0.00	0.00
4,800.0	1.76	221.26	4,798.4	-79.6	-69.9	-76.3	0.00	0.00	0.00
4,900.0	1.76	221.26	4,898.3	-81.9	-71.9	-78.5	0.00	0.00	0.00
5,000.0	1.76	221.26	4,998.3	-84.2	-73.9	-80.7	0.00	0.00	0.00
5,100.0	1.76	221.26	5,098.2	-86.5	-75.9	-82.9	0.00	0.00	0.00
5,200.0	1.76	221.26	5,198.2	-88.8	-77.9	-85.1	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #504H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3527.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3527.0usft
Site:	Adder 31 State	North Reference:	Grid
Well:	#504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
5,300.0	1.76	221.26	5,298.1	-91.1	-80.0	-87.3	0.00	0.00	0.00
5,400.0	1.76	221.26	5,398.1	-93.4	-82.0	-89.5	0.00	0.00	0.00
5,500.0	1.76	221.26	5,498.1	-95.7	-84.0	-91.7	0.00	0.00	0.00
5,600.0	1.76	221.26	5,598.0	-98.0	-86.0	-93.9	0.00	0.00	0.00
5,700.0	1.76	221.26	5,698.0	-100.3	-88.0	-96.1	0.00	0.00	0.00
5,800.0	1.76	221.26	5,797.9	-102.7	-90.1	-98.3	0.00	0.00	0.00
5,900.0	1.76	221.26	5,897.9	-105.0	-92.1	-100.6	0.00	0.00	0.00
6,000.0	1.76	221.26	5,997.8	-107.3	-94.1	-102.8	0.00	0.00	0.00
6,100.0	1.76	221.26	6,097.8	-109.6	-96.1	-105.0	0.00	0.00	0.00
6,200.0	1.76	221.26	6,197.7	-111.9	-98.1	-107.2	0.00	0.00	0.00
6,300.0	1.76	221.26	6,297.7	-114.2	-100.2	-109.4	0.00	0.00	0.00
6,400.0	1.76	221.26	6,397.6	-116.5	-102.2	-111.6	0.00	0.00	0.00
6,500.0	1.76	221.26	6,497.6	-118.8	-104.2	-113.8	0.00	0.00	0.00
6,600.0	1.76	221.26	6,597.5	-121.1	-106.2	-116.0	0.00	0.00	0.00
6,700.0	1.76	221.26	6,697.5	-123.4	-108.3	-118.2	0.00	0.00	0.00
6,800.0	1.76	221.26	6,797.4	-125.7	-110.3	-120.4	0.00	0.00	0.00
6,900.0	1.76	221.26	6,897.4	-128.0	-112.3	-122.6	0.00	0.00	0.00
7,000.0	1.76	221.26	6,997.4	-130.3	-114.3	-124.8	0.00	0.00	0.00
7,100.0	1.76	221.26	7,097.3	-132.6	-116.3	-127.0	0.00	0.00	0.00
7,200.0	1.76	221.26	7,197.3	-134.9	-118.4	-129.2	0.00	0.00	0.00
7,300.0	1.76	221.26	7,297.2	-137.2	-120.4	-131.4	0.00	0.00	0.00
7,400.0	1.76	221.26	7,397.2	-139.5	-122.4	-133.7	0.00	0.00	0.00
7,500.0	1.76	221.26	7,497.1	-141.8	-124.4	-135.9	0.00	0.00	0.00
7,600.0	1.76	221.26	7,597.1	-144.1	-126.4	-138.1	0.00	0.00	0.00
7,700.0	1.76	221.26	7,697.0	-146.4	-128.5	-140.3	0.00	0.00	0.00
7,800.0	1.76	221.26	7,797.0	-148.7	-130.5	-142.5	0.00	0.00	0.00
7,900.0	1.76	221.26	7,896.9	-151.0	-132.5	-144.7	0.00	0.00	0.00
8,000.0	1.76	221.26	7,996.9	-153.3	-134.5	-146.9	0.00	0.00	0.00
8,100.0	1.76	221.26	8,096.8	-155.6	-136.5	-149.1	0.00	0.00	0.00
8,200.0	1.76	221.26	8,196.8	-157.9	-138.6	-151.3	0.00	0.00	0.00
8,300.0	1.76	221.26	8,296.7	-160.2	-140.6	-153.5	0.00	0.00	0.00
8,400.0	1.76	221.26	8,396.7	-162.5	-142.6	-155.7	0.00	0.00	0.00
8,500.0	1.76	221.26	8,496.6	-164.8	-144.6	-157.9	0.00	0.00	0.00
8,600.0	1.76	221.26	8,596.6	-167.2	-146.7	-160.1	0.00	0.00	0.00
8,700.0	1.76	221.26	8,696.6	-169.5	-148.7	-162.3	0.00	0.00	0.00
8,800.0	1.76	221.26	8,796.5	-171.8	-150.7	-164.6	0.00	0.00	0.00
8,900.0	1.76	221.26	8,896.5	-174.1	-152.7	-166.8	0.00	0.00	0.00
9,000.0	1.76	221.26	8,996.4	-176.4	-154.7	-169.0	0.00	0.00	0.00
9,100.0	1.76	221.26	9,096.4	-178.7	-156.8	-171.2	0.00	0.00	0.00
9,200.0	1.76	221.26	9,196.3	-181.0	-158.8	-173.4	0.00	0.00	0.00
9,300.0	1.76	221.26	9,296.3	-183.3	-160.8	-175.6	0.00	0.00	0.00
9,400.0	1.76	221.26	9,396.2	-185.6	-162.8	-177.8	0.00	0.00	0.00
9,500.0	1.76	221.26	9,496.2	-187.9	-164.8	-180.0	0.00	0.00	0.00
9,600.0	1.76	221.26	9,596.1	-190.2	-166.9	-182.2	0.00	0.00	0.00
9,700.0	1.76	221.26	9,696.1	-192.5	-168.9	-184.4	0.00	0.00	0.00
9,800.0	1.76	221.26	9,796.0	-194.8	-170.9	-186.6	0.00	0.00	0.00
9,900.0	1.76	221.26	9,896.0	-197.1	-172.9	-188.8	0.00	0.00	0.00
10,000.0	1.76	221.26	9,995.9	-199.4	-174.9	-191.0	0.00	0.00	0.00
10,100.0	1.76	221.26	10,095.9	-201.7	-177.0	-193.2	0.00	0.00	0.00
10,200.0	1.76	221.26	10,195.8	-204.0	-179.0	-195.4	0.00	0.00	0.00
10,300.0	1.76	221.26	10,295.8	-206.3	-181.0	-197.7	0.00	0.00	0.00
10,400.0	1.76	221.26	10,395.8	-208.6	-183.0	-199.9	0.00	0.00	0.00
10,503.0	1.76	221.26	10,498.7	-211.0	-185.1	-202.1	0.00	0.00	0.00
10,590.8	0.00	0.00	10,586.5	-212.0	-186.0	-203.1	2.00	-2.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #504H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3527.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3527.0usft
Site:	Adder 31 State	North Reference:	Grid
Well:	#504H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
KOP(Adder 31 State #504H)									
10,600.0	1.10	359.54	10,595.7	-211.9	-186.0	-203.0	12.00	12.00	0.00
10,625.0	4.10	359.54	10,620.7	-210.8	-186.0	-201.9	12.00	12.00	0.00
10,650.0	7.10	359.54	10,645.5	-208.3	-186.0	-199.4	12.00	12.00	0.00
10,675.0	10.10	359.54	10,670.3	-204.6	-186.1	-195.7	12.00	12.00	0.00
10,700.0	13.10	359.54	10,694.7	-199.6	-186.1	-190.7	12.00	12.00	0.00
10,725.0	16.10	359.54	10,718.9	-193.3	-186.2	-184.4	12.00	12.00	0.00
10,750.0	19.10	359.54	10,742.8	-185.7	-186.2	-176.8	12.00	12.00	0.00
10,775.0	22.10	359.54	10,766.2	-176.9	-186.3	-168.0	12.00	12.00	0.00
10,800.0	25.10	359.54	10,789.1	-166.9	-186.4	-158.0	12.00	12.00	0.00
10,825.0	28.10	359.54	10,811.4	-155.7	-186.5	-146.9	12.00	12.00	0.00
10,850.0	31.10	359.54	10,833.1	-143.4	-186.6	-134.5	12.00	12.00	0.00
10,875.0	34.10	359.54	10,854.2	-129.9	-186.7	-121.1	12.00	12.00	0.00
10,900.0	37.10	359.54	10,874.5	-115.3	-186.8	-106.5	12.00	12.00	0.00
10,925.0	40.10	359.54	10,894.1	-99.7	-186.9	-90.9	12.00	12.00	0.00
10,950.0	43.10	359.54	10,912.8	-83.1	-187.0	-74.3	12.00	12.00	0.00
10,967.2	45.17	359.54	10,925.1	-71.2	-187.1	-62.4	12.00	12.00	0.00
FTP(Adder 31 State #504H)									
10,975.0	46.10	359.54	10,930.6	-65.6	-187.2	-56.8	12.00	12.00	0.00
11,000.0	49.10	359.54	10,947.4	-47.1	-187.3	-38.4	12.00	12.00	0.00
11,025.0	52.10	359.54	10,963.3	-27.8	-187.5	-19.1	12.00	12.00	0.00
11,050.0	55.10	359.54	10,978.1	-7.7	-187.6	1.0	12.00	12.00	0.00
11,075.0	58.10	359.54	10,991.9	13.2	-187.8	21.9	12.00	12.00	0.00
11,100.0	61.10	359.54	11,004.5	34.7	-188.0	43.4	12.00	12.00	0.00
11,125.0	64.10	359.54	11,016.0	56.9	-188.2	65.6	12.00	12.00	0.00
11,150.0	67.10	359.54	11,026.3	79.7	-188.4	88.4	12.00	12.00	0.00
11,175.0	70.10	359.54	11,035.5	103.0	-188.5	111.6	12.00	12.00	0.00
11,200.0	73.10	359.54	11,043.4	126.7	-188.7	135.3	12.00	12.00	0.00
11,225.0	76.10	359.54	11,050.0	150.8	-188.9	159.4	12.00	12.00	0.00
11,250.0	79.10	359.54	11,055.4	175.2	-189.1	183.8	12.00	12.00	0.00
11,275.0	82.10	359.54	11,059.4	199.9	-189.3	208.5	12.00	12.00	0.00
11,300.0	85.10	359.54	11,062.2	224.7	-189.5	233.3	12.00	12.00	0.00
11,325.0	88.10	359.54	11,063.7	249.6	-189.7	258.2	12.00	12.00	0.00
11,340.8	90.00	359.54	11,064.0	265.4	-189.9	274.0	12.00	12.00	0.00
11,400.0	90.00	359.54	11,064.0	324.6	-190.3	333.2	0.00	0.00	0.00
11,500.0	90.00	359.54	11,064.0	424.6	-191.1	433.1	0.00	0.00	0.00
11,600.0	90.00	359.54	11,064.0	524.6	-191.9	533.0	0.00	0.00	0.00
11,700.0	90.00	359.54	11,064.0	624.6	-192.8	632.9	0.00	0.00	0.00
11,800.0	90.00	359.54	11,064.0	724.6	-193.6	732.9	0.00	0.00	0.00
11,900.0	90.00	359.54	11,064.0	824.6	-194.4	832.8	0.00	0.00	0.00
12,000.0	90.00	359.54	11,064.0	924.6	-195.2	932.7	0.00	0.00	0.00
12,100.0	90.00	359.54	11,064.0	1,024.6	-196.0	1,032.6	0.00	0.00	0.00
12,200.0	90.00	359.54	11,064.0	1,124.6	-196.8	1,132.6	0.00	0.00	0.00
12,300.0	90.00	359.54	11,064.0	1,224.6	-197.6	1,232.5	0.00	0.00	0.00
12,400.0	90.00	359.54	11,064.0	1,324.6	-198.4	1,332.4	0.00	0.00	0.00
12,500.0	90.00	359.54	11,064.0	1,424.6	-199.2	1,432.3	0.00	0.00	0.00
12,600.0	90.00	359.54	11,064.0	1,524.6	-200.0	1,532.3	0.00	0.00	0.00
12,700.0	90.00	359.54	11,064.0	1,624.6	-200.8	1,632.2	0.00	0.00	0.00
12,800.0	90.00	359.54	11,064.0	1,724.6	-201.6	1,732.1	0.00	0.00	0.00
12,900.0	90.00	359.54	11,064.0	1,824.6	-202.4	1,832.0	0.00	0.00	0.00
13,000.0	90.00	359.54	11,064.0	1,924.6	-203.2	1,932.0	0.00	0.00	0.00
13,100.0	90.00	359.54	11,064.0	2,024.6	-204.1	2,031.9	0.00	0.00	0.00
13,200.0	90.00	359.54	11,064.0	2,124.6	-204.9	2,131.8	0.00	0.00	0.00
13,300.0	90.00	359.54	11,064.0	2,224.6	-205.7	2,231.7	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Adder 31 State
Well: #504H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25 @ 3527.0usft
MD Reference: KB = 25 @ 3527.0usft
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)
13,400.0	90.00	359.54	11,064.0	2,324.6	-206.5	2,331.7	0.00	0.00	0.00
13,500.0	90.00	359.54	11,064.0	2,424.6	-207.3	2,431.6	0.00	0.00	0.00
13,600.0	90.00	359.54	11,064.0	2,524.6	-208.1	2,531.5	0.00	0.00	0.00
13,700.0	90.00	359.54	11,064.0	2,624.6	-208.9	2,631.4	0.00	0.00	0.00
13,800.0	90.00	359.54	11,064.0	2,724.6	-209.7	2,731.4	0.00	0.00	0.00
13,900.0	90.00	359.54	11,064.0	2,824.6	-210.5	2,831.3	0.00	0.00	0.00
14,000.0	90.00	359.54	11,064.0	2,924.6	-211.3	2,931.2	0.00	0.00	0.00
14,100.0	90.00	359.54	11,064.0	3,024.6	-212.1	3,031.1	0.00	0.00	0.00
14,200.0	90.00	359.54	11,064.0	3,124.5	-212.9	3,131.1	0.00	0.00	0.00
14,300.0	90.00	359.54	11,064.0	3,224.5	-213.7	3,231.0	0.00	0.00	0.00
14,400.0	90.00	359.54	11,064.0	3,324.5	-214.5	3,330.9	0.00	0.00	0.00
14,500.0	90.00	359.54	11,064.0	3,424.5	-215.4	3,430.9	0.00	0.00	0.00
14,600.0	90.00	359.54	11,064.0	3,524.5	-216.2	3,530.8	0.00	0.00	0.00
14,700.0	90.00	359.54	11,064.0	3,624.5	-217.0	3,630.7	0.00	0.00	0.00
14,800.0	90.00	359.54	11,064.0	3,724.5	-217.8	3,730.6	0.00	0.00	0.00
14,900.0	90.00	359.54	11,064.0	3,824.5	-218.6	3,830.6	0.00	0.00	0.00
15,000.0	90.00	359.54	11,064.0	3,924.5	-219.4	3,930.5	0.00	0.00	0.00
15,100.0	90.00	359.54	11,064.0	4,024.5	-220.2	4,030.4	0.00	0.00	0.00
15,200.0	90.00	359.54	11,064.0	4,124.5	-221.0	4,130.3	0.00	0.00	0.00
15,300.0	90.00	359.54	11,064.0	4,224.5	-221.8	4,230.3	0.00	0.00	0.00
15,400.0	90.00	359.54	11,064.0	4,324.5	-222.6	4,330.2	0.00	0.00	0.00
15,500.0	90.00	359.54	11,064.0	4,424.5	-223.4	4,430.1	0.00	0.00	0.00
15,600.0	90.00	359.54	11,064.0	4,524.5	-224.2	4,530.0	0.00	0.00	0.00
15,700.0	90.00	359.54	11,064.0	4,624.5	-225.0	4,630.0	0.00	0.00	0.00
15,800.0	90.00	359.54	11,064.0	4,724.5	-225.8	4,729.9	0.00	0.00	0.00
15,900.0	90.00	359.54	11,064.0	4,824.5	-226.6	4,829.8	0.00	0.00	0.00
15,943.5	90.00	359.54	11,064.0	4,868.0	-227.0	4,873.3	0.00	0.00	0.00

PBHL(Adder 31 State #504H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP(Adder 31 State #504H) - hit/miss target - Shape - Point	0.00	0.00	10,586.5	-212.0	-186.0	425,301.00	765,226.00	32° 10' 1.781 N	103° 36' 35.198 W
PBHL(Adder 31 State #504H) - plan hits target center - Point	0.00	0.00	11,064.0	4,868.0	-227.0	430,381.00	765,185.00	32° 10' 52.052 N	103° 36' 35.277 W
FTP(Adder 31 State #504H) - plan misses target center by 197.8usft at 10967.2usft MD (10925.1 TVD, -71.2 N, -187.1 E) - Point	0.00	0.00	11,064.0	-212.0	-186.0	425,301.00	765,226.00	32° 10' 1.781 N	103° 36' 35.198 W



Lea County, NM (NAD 83 NME)

Adder 31 State #504H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #504H

KB = 25 @ 3527.0ush 3502.0
Northing 425513.00 Easting 765412.00 Latitude 32° 10' 3.867 N Longitude 103° 36' 33.017 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dieg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1387.8	1.76	221.26	1387.8	-1.0	-0.9	2.00	221.26	-1.0	
4	10503.0	1.76	221.26	10498.7	-211.0	-185.1	0.00	0.00	-202.1	
5	10590.8	0.00	0.00	10588.5	-212.0	-186.0	2.00	180.00	-203.1	KOP(Adder 31 State #504H)
6	11340.8	90.00	359.54	11064.0	265.4	-189.9	12.00	359.54	274.0	
7	15943.5	90.00	359.54	11064.0	4868.0	-227.0	0.00	0.00	4873.3	PBHL(Adder 31 State #504H)

CASINO DETAILS

No casing data is available

WELLBORE YARDLEY DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Adder 31 State #504H)	10588.5	-212.0	-186.0	425301.00	765226.00
PBHL(Adder 31 State #504H)	11064.0	4868.0	-227.0	426321.00	765185.00
FTP(Adder 31 State #504H)	11064.0	-212.0	-186.0	425301.00	765226.00

