

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 87411
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.) 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>1930</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.) 35021GL		WELL API NO 3002546033
		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 505H 9. OGRID Number 7377 10. Pool name or Wildcat [97964] WC-025 G-07 S243225C; LWR BONE SPRIN

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 requests an amendment to our approved APD for this well to reflect the following changes:
BHL change from Sec. 31 T-24-S R-33-E 100' FNL 1730' FEL to Sec. 31 T-24-S R-33-E 100' FNL 1300' 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):

Adder 31 State #505H
Lea County, New Mexico

HOBBS OCD

Revised Wellbore 7/11/2019

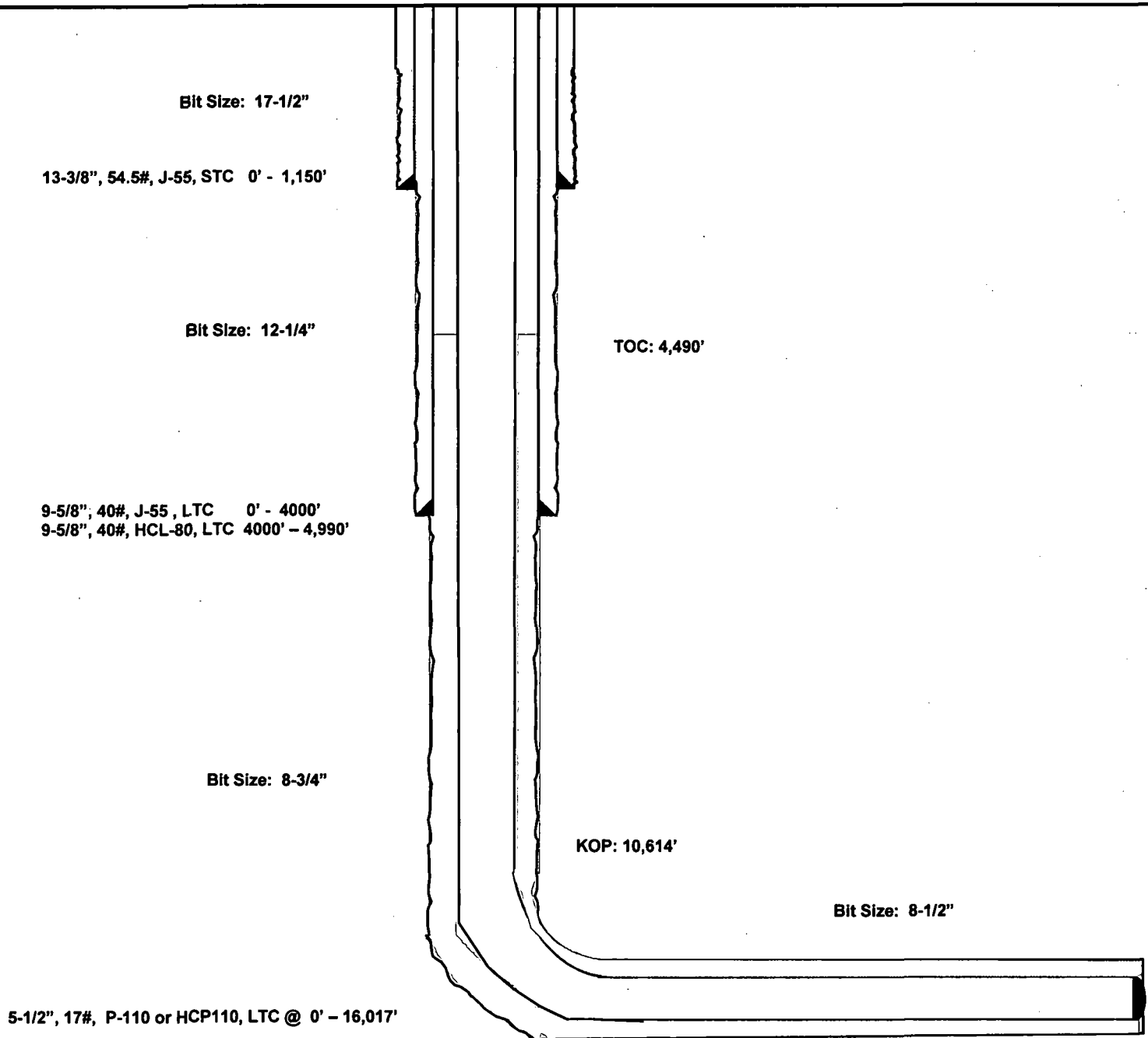
JUL 18 2019

311' FSL
1930' FEL
Section 31
T-24-S, R-33-E

API: 30-025-46033

RECEIVED

KB: 3,526'
GL: 3,501'



Lateral: 16,017' MD, 11,066' TVD
BH Location: 100' FNL & 1300' FEL
Section 31
T-24-S, R-33-E

EOG RESOURCES, INC.

Adder 31 State #505H

HOBBS OCD

Revised Permit Information 7/11/2019:

JUL 18 2019

Well Name: Adder 31 State No. 505H

RECEIVED

Location:

SHL: 311' FSL & 1930' FEL, Section 31, T-24-S, R-33-E, Lea Co., N.M.

BHL: 100' FNL & 1300' FEL, Section 31, T-24-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' - 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' - 11,364'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60
8.5"	11,364' - 16,017'	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
16,017'	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' - 10,614'	Cut Brine	8.4-9.0	28-34	N/c
10,614' - 16,017' Lateral	Oil Base	9.0-9.5	40-42	8-10



HOBBS OCD

JUL 18 2019

RECEIVED

EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Adder 31 State

#505H

OH

Plan: Plan #0.1

Standard Planning Report

16 July, 2019



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #505H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3526.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3526.0usft
Site:	Adder 31 State	North Reference:	Grid
Well:	#505H	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	#505H					
Well Position	+N/-S	0.0 usft	Northing:	425,513.00 usft	Latitude:	32° 10' 3.865 N
	+E/-W	33.0 usft	Easting:	765,445.00 usft	Longitude:	103° 36' 32.633 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,501.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/11/2019	6.78	59.98	47,722.30291526

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)	Direction (°)
	0.0	0.0	0.0	6.90

Plan Survey Tool Program	Date 7/16/2019			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,016.5 Plan #0.1 (OH)	MWD	
			OWSG MWD - Standard	

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	
1,514.7	4.29	112.16	1,514.5	-3.0	7.4	2.00	2.00	0.00	112.16	
10,399.1	4.29	112.16	10,374.0	-254.0	623.6	0.00	0.00	0.00	0.00	
10,613.8	0.00	0.00	10,588.5	-257.0	631.0	2.00	-2.00	0.00	180.00	KOP(Adder 31 State /
11,363.8	90.00	359.54	11,066.0	220.4	627.2	12.00	12.00	-0.06	359.54	
16,016.5	90.00	359.54	11,066.0	4,873.0	590.0	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: #505H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #505H
TVD Reference: KB = 25 @ 3526.0usft
MD Reference: KB = 25 @ 3526.0usft
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	2.00	112.16	1,400.0	-0.7	1.6	-0.5	2.00	2.00	0.00
1,500.0	4.00	112.16	1,499.8	-2.6	6.5	-1.8	2.00	2.00	0.00
1,514.7	4.29	112.16	1,514.5	-3.0	7.4	-2.1	2.00	2.00	0.00
1,600.0	4.29	112.16	1,599.6	-5.4	13.4	-3.8	0.00	0.00	0.00
1,700.0	4.29	112.16	1,699.3	-8.3	20.3	-5.8	0.00	0.00	0.00
1,800.0	4.29	112.16	1,799.0	-11.1	27.2	-7.7	0.00	0.00	0.00
1,900.0	4.29	112.16	1,898.7	-13.9	34.2	-9.7	0.00	0.00	0.00
2,000.0	4.29	112.16	1,998.4	-16.7	41.1	-11.7	0.00	0.00	0.00
2,100.0	4.29	112.16	2,098.2	-19.6	48.0	-13.6	0.00	0.00	0.00
2,200.0	4.29	112.16	2,197.9	-22.4	55.0	-15.6	0.00	0.00	0.00
2,300.0	4.29	112.16	2,297.6	-25.2	61.9	-17.6	0.00	0.00	0.00
2,400.0	4.29	112.16	2,397.3	-28.0	68.8	-19.6	0.00	0.00	0.00
2,500.0	4.29	112.16	2,497.0	-30.9	75.8	-21.5	0.00	0.00	0.00
2,600.0	4.29	112.16	2,596.8	-33.7	82.7	-23.5	0.00	0.00	0.00
2,700.0	4.29	112.16	2,696.5	-36.5	89.6	-25.5	0.00	0.00	0.00
2,800.0	4.29	112.16	2,796.2	-39.3	96.6	-27.4	0.00	0.00	0.00
2,900.0	4.29	112.16	2,895.9	-42.2	103.5	-29.4	0.00	0.00	0.00
3,000.0	4.29	112.16	2,995.6	-45.0	110.4	-31.4	0.00	0.00	0.00
3,100.0	4.29	112.16	3,095.3	-47.8	117.4	-33.4	0.00	0.00	0.00
3,200.0	4.29	112.16	3,195.1	-50.6	124.3	-35.3	0.00	0.00	0.00
3,300.0	4.29	112.16	3,294.8	-53.5	131.3	-37.3	0.00	0.00	0.00
3,400.0	4.29	112.16	3,394.5	-56.3	138.2	-39.3	0.00	0.00	0.00
3,500.0	4.29	112.16	3,494.2	-59.1	145.1	-41.2	0.00	0.00	0.00
3,600.0	4.29	112.16	3,593.9	-61.9	152.1	-43.2	0.00	0.00	0.00
3,700.0	4.29	112.16	3,693.7	-64.8	159.0	-45.2	0.00	0.00	0.00
3,800.0	4.29	112.16	3,793.4	-67.6	165.9	-47.1	0.00	0.00	0.00
3,900.0	4.29	112.16	3,893.1	-70.4	172.9	-49.1	0.00	0.00	0.00
4,000.0	4.29	112.16	3,992.8	-73.2	179.8	-51.1	0.00	0.00	0.00
4,100.0	4.29	112.16	4,092.5	-76.1	186.7	-53.1	0.00	0.00	0.00
4,200.0	4.29	112.16	4,192.3	-78.9	193.7	-55.0	0.00	0.00	0.00
4,300.0	4.29	112.16	4,292.0	-81.7	200.6	-57.0	0.00	0.00	0.00
4,400.0	4.29	112.16	4,391.7	-84.5	207.5	-59.0	0.00	0.00	0.00
4,500.0	4.29	112.16	4,491.4	-87.4	214.5	-60.9	0.00	0.00	0.00
4,600.0	4.29	112.16	4,591.1	-90.2	221.4	-62.9	0.00	0.00	0.00
4,700.0	4.29	112.16	4,690.9	-93.0	228.3	-64.9	0.00	0.00	0.00
4,800.0	4.29	112.16	4,790.6	-95.8	235.3	-66.8	0.00	0.00	0.00
4,900.0	4.29	112.16	4,890.3	-98.6	242.2	-68.8	0.00	0.00	0.00
5,000.0	4.29	112.16	4,990.0	-101.5	249.1	-70.8	0.00	0.00	0.00
5,100.0	4.29	112.16	5,089.7	-104.3	256.1	-72.8	0.00	0.00	0.00
5,200.0	4.29	112.16	5,189.5	-107.1	263.0	-74.7	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: #505H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #505H
 TVD Reference: KB = 25 @ 3526.0usft
 MD Reference: KB = 25 @ 3526.0usft
 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)
5,300.0	4.29	112.16	5,289.2	-109.9	269.9	-76.7	0.00	0.00	0.00
5,400.0	4.29	112.16	5,388.9	-112.8	276.9	-78.7	0.00	0.00	0.00
5,500.0	4.29	112.16	5,488.6	-115.6	283.8	-80.6	0.00	0.00	0.00
5,600.0	4.29	112.16	5,588.3	-118.4	290.7	-82.6	0.00	0.00	0.00
5,700.0	4.29	112.16	5,688.0	-121.2	297.7	-84.6	0.00	0.00	0.00
5,800.0	4.29	112.16	5,787.8	-124.1	304.6	-86.6	0.00	0.00	0.00
5,900.0	4.29	112.16	5,887.5	-126.9	311.6	-88.5	0.00	0.00	0.00
6,000.0	4.29	112.16	5,987.2	-129.7	318.5	-90.5	0.00	0.00	0.00
6,100.0	4.29	112.16	6,086.9	-132.5	325.4	-92.5	0.00	0.00	0.00
6,200.0	4.29	112.16	6,186.6	-135.4	332.4	-94.4	0.00	0.00	0.00
6,300.0	4.29	112.16	6,286.4	-138.2	339.3	-96.4	0.00	0.00	0.00
6,400.0	4.29	112.16	6,386.1	-141.0	346.2	-98.4	0.00	0.00	0.00
6,500.0	4.29	112.16	6,485.8	-143.8	353.2	-100.3	0.00	0.00	0.00
6,600.0	4.29	112.16	6,585.5	-146.7	360.1	-102.3	0.00	0.00	0.00
6,700.0	4.29	112.16	6,685.2	-149.5	367.0	-104.3	0.00	0.00	0.00
6,800.0	4.29	112.16	6,785.0	-152.3	374.0	-106.3	0.00	0.00	0.00
6,900.0	4.29	112.16	6,884.7	-155.1	380.9	-108.2	0.00	0.00	0.00
7,000.0	4.29	112.16	6,984.4	-158.0	387.8	-110.2	0.00	0.00	0.00
7,100.0	4.29	112.16	7,084.1	-160.8	394.8	-112.2	0.00	0.00	0.00
7,200.0	4.29	112.16	7,183.8	-163.6	401.7	-114.1	0.00	0.00	0.00
7,300.0	4.29	112.16	7,283.6	-166.4	408.6	-116.1	0.00	0.00	0.00
7,400.0	4.29	112.16	7,383.3	-169.3	415.6	-118.1	0.00	0.00	0.00
7,500.0	4.29	112.16	7,483.0	-172.1	422.5	-120.1	0.00	0.00	0.00
7,600.0	4.29	112.16	7,582.7	-174.9	429.4	-122.0	0.00	0.00	0.00
7,700.0	4.29	112.16	7,682.4	-177.7	436.4	-124.0	0.00	0.00	0.00
7,800.0	4.29	112.16	7,782.2	-180.6	443.3	-126.0	0.00	0.00	0.00
7,900.0	4.29	112.16	7,881.9	-183.4	450.2	-127.9	0.00	0.00	0.00
8,000.0	4.29	112.16	7,981.6	-186.2	457.2	-129.9	0.00	0.00	0.00
8,100.0	4.29	112.16	8,081.3	-189.0	464.1	-131.9	0.00	0.00	0.00
8,200.0	4.29	112.16	8,181.0	-191.9	471.0	-133.8	0.00	0.00	0.00
8,300.0	4.29	112.16	8,280.8	-194.7	478.0	-135.8	0.00	0.00	0.00
8,400.0	4.29	112.16	8,380.5	-197.5	484.9	-137.8	0.00	0.00	0.00
8,500.0	4.29	112.16	8,480.2	-200.3	491.9	-139.8	0.00	0.00	0.00
8,600.0	4.29	112.16	8,579.9	-203.2	498.8	-141.7	0.00	0.00	0.00
8,700.0	4.29	112.16	8,679.6	-206.0	505.7	-143.7	0.00	0.00	0.00
8,800.0	4.29	112.16	8,779.3	-208.8	512.7	-145.7	0.00	0.00	0.00
8,900.0	4.29	112.16	8,879.1	-211.6	519.6	-147.6	0.00	0.00	0.00
9,000.0	4.29	112.16	8,978.8	-214.4	526.5	-149.6	0.00	0.00	0.00
9,100.0	4.29	112.16	9,078.5	-217.3	533.5	-151.6	0.00	0.00	0.00
9,200.0	4.29	112.16	9,178.2	-220.1	540.4	-153.5	0.00	0.00	0.00
9,300.0	4.29	112.16	9,277.9	-222.9	547.3	-155.5	0.00	0.00	0.00
9,400.0	4.29	112.16	9,377.7	-225.7	554.3	-157.5	0.00	0.00	0.00
9,500.0	4.29	112.16	9,477.4	-228.6	561.2	-159.5	0.00	0.00	0.00
9,600.0	4.29	112.16	9,577.1	-231.4	568.1	-161.4	0.00	0.00	0.00
9,700.0	4.29	112.16	9,676.8	-234.2	575.1	-163.4	0.00	0.00	0.00
9,800.0	4.29	112.16	9,776.5	-237.0	582.0	-165.4	0.00	0.00	0.00
9,900.0	4.29	112.16	9,876.3	-239.9	588.9	-167.3	0.00	0.00	0.00
10,000.0	4.29	112.16	9,976.0	-242.7	595.9	-169.3	0.00	0.00	0.00
10,100.0	4.29	112.16	10,075.7	-245.5	602.8	-171.3	0.00	0.00	0.00
10,200.0	4.29	112.16	10,175.4	-248.3	609.7	-173.3	0.00	0.00	0.00
10,300.0	4.29	112.16	10,275.1	-251.2	616.7	-175.2	0.00	0.00	0.00
10,399.1	4.29	112.16	10,374.0	-254.0	623.6	-177.2	0.00	0.00	0.00
10,500.0	2.28	112.16	10,474.7	-256.1	628.9	-178.7	2.00	-2.00	0.00
10,600.0	0.28	112.16	10,574.7	-257.0	631.0	-179.3	2.00	-2.00	0.00



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Adder 31 State
Well: #505H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #505H
TVD Reference: KB = 25 @ 3526.0usft
MD Reference: KB = 25 @ 3526.0usft
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)
10,613.8	0.00	0.00	10,588.5	-257.0	631.0	-179.3	2.00	-2.00	0.00
KOP(Adder 31 State #505H)									
10,625.0	1.34	359.54	10,599.7	-256.9	631.0	-179.2	12.00	12.00	0.00
10,650.0	4.34	359.54	10,624.6	-255.6	631.0	-177.9	12.00	12.00	0.00
10,675.0	7.34	359.54	10,649.5	-253.1	631.0	-175.4	12.00	12.00	0.00
10,700.0	10.34	359.54	10,674.2	-249.2	630.9	-171.6	12.00	12.00	0.00
10,725.0	13.34	359.54	10,698.7	-244.1	630.9	-166.5	12.00	12.00	0.00
10,750.0	16.34	359.54	10,722.8	-237.7	630.8	-160.2	12.00	12.00	0.00
10,775.0	19.34	359.54	10,746.6	-230.1	630.8	-152.6	12.00	12.00	0.00
10,800.0	22.34	359.54	10,770.0	-221.2	630.7	-143.8	12.00	12.00	0.00
10,825.0	25.34	359.54	10,792.8	-211.1	630.6	-133.7	12.00	12.00	0.00
10,850.0	28.34	359.54	10,815.1	-199.8	630.5	-122.5	12.00	12.00	0.00
10,875.0	31.34	359.54	10,836.8	-187.3	630.4	-110.2	12.00	12.00	0.00
10,900.0	34.34	359.54	10,857.8	-173.8	630.3	-96.8	12.00	12.00	0.00
10,925.0	37.34	359.54	10,878.1	-159.2	630.2	-82.2	12.00	12.00	0.00
10,950.0	40.34	359.54	10,897.6	-143.5	630.1	-66.7	12.00	12.00	0.00
10,975.0	43.34	359.54	10,916.2	-126.8	630.0	-50.2	12.00	12.00	0.00
11,000.0	46.34	359.54	10,933.9	-109.2	629.8	-32.7	12.00	12.00	0.00
11,016.1	48.28	359.54	10,944.9	-97.3	629.7	-20.9	12.00	12.00	0.00
FTP(Adder 31 State #505H)									
11,025.0	49.34	359.54	10,950.7	-90.6	629.7	-14.3	12.00	12.00	0.00
11,050.0	52.34	359.54	10,966.5	-71.3	629.5	4.9	12.00	12.00	0.00
11,075.0	55.34	359.54	10,981.2	-51.1	629.4	24.9	12.00	12.00	0.00
11,100.0	58.34	359.54	10,994.9	-30.2	629.2	45.7	12.00	12.00	0.00
11,125.0	61.34	359.54	11,007.5	-8.5	629.0	67.1	12.00	12.00	0.00
11,150.0	64.34	359.54	11,018.9	13.7	628.8	89.2	12.00	12.00	0.00
11,175.0	67.34	359.54	11,029.1	36.5	628.7	111.8	12.00	12.00	0.00
11,200.0	70.34	359.54	11,038.1	59.8	628.5	134.9	12.00	12.00	0.00
11,225.0	73.34	359.54	11,045.9	83.6	628.3	158.5	12.00	12.00	0.00
11,250.0	76.34	359.54	11,052.5	107.7	628.1	182.4	12.00	12.00	0.00
11,275.0	79.34	359.54	11,057.7	132.1	627.9	206.6	12.00	12.00	0.00
11,300.0	82.34	359.54	11,061.7	156.8	627.7	231.1	12.00	12.00	0.00
11,325.0	85.34	359.54	11,064.4	181.7	627.5	255.8	12.00	12.00	0.00
11,350.0	88.34	359.54	11,065.8	206.6	627.3	280.5	12.00	12.00	0.00
11,363.8	90.00	359.54	11,066.0	220.4	627.2	294.2	12.00	12.00	0.00
11,400.0	90.00	359.54	11,066.0	256.6	626.9	330.1	0.00	0.00	0.00
11,500.0	90.00	359.54	11,066.0	356.6	626.1	429.3	0.00	0.00	0.00
11,600.0	90.00	359.54	11,066.0	456.6	625.3	528.4	0.00	0.00	0.00
11,700.0	90.00	359.54	11,066.0	556.6	624.5	627.6	0.00	0.00	0.00
11,800.0	90.00	359.54	11,066.0	656.6	623.7	726.8	0.00	0.00	0.00
11,900.0	90.00	359.54	11,066.0	756.6	622.9	826.0	0.00	0.00	0.00
12,000.0	90.00	359.54	11,066.0	856.6	622.1	925.2	0.00	0.00	0.00
12,100.0	90.00	359.54	11,066.0	956.6	621.3	1,024.3	0.00	0.00	0.00
12,200.0	90.00	359.54	11,066.0	1,056.6	620.5	1,123.5	0.00	0.00	0.00
12,300.0	90.00	359.54	11,066.0	1,156.6	619.7	1,222.7	0.00	0.00	0.00
12,400.0	90.00	359.54	11,066.0	1,256.6	618.9	1,321.9	0.00	0.00	0.00
12,500.0	90.00	359.54	11,066.0	1,356.6	618.1	1,421.0	0.00	0.00	0.00
12,600.0	90.00	359.54	11,066.0	1,456.6	617.3	1,520.2	0.00	0.00	0.00
12,700.0	90.00	359.54	11,066.0	1,556.6	616.5	1,619.4	0.00	0.00	0.00
12,800.0	90.00	359.54	11,066.0	1,656.6	615.7	1,718.6	0.00	0.00	0.00
12,900.0	90.00	359.54	11,066.0	1,756.6	614.9	1,817.7	0.00	0.00	0.00
13,000.0	90.00	359.54	11,066.0	1,856.6	614.1	1,916.9	0.00	0.00	0.00
13,100.0	90.00	359.54	11,066.0	1,956.6	613.3	2,016.1	0.00	0.00	0.00
13,200.0	90.00	359.54	11,066.0	2,056.5	612.5	2,115.3	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #505H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3526.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3526.0usft
Site:	Adder 31 State	North Reference:	Grid
Well:	#505H	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)
13,300.0	90.00	359.54	11,066.0	2,156.5	611.7	2,214.4	0.00	0.00	0.00
13,400.0	90.00	359.54	11,066.0	2,256.5	610.9	2,313.6	0.00	0.00	0.00
13,500.0	90.00	359.54	11,066.0	2,356.5	610.1	2,412.8	0.00	0.00	0.00
13,600.0	90.00	359.54	11,066.0	2,456.5	609.3	2,512.0	0.00	0.00	0.00
13,700.0	90.00	359.54	11,066.0	2,556.5	608.5	2,611.1	0.00	0.00	0.00
13,800.0	90.00	359.54	11,066.0	2,656.5	607.7	2,710.3	0.00	0.00	0.00
13,900.0	90.00	359.54	11,066.0	2,756.5	606.9	2,809.5	0.00	0.00	0.00
14,000.0	90.00	359.54	11,066.0	2,856.5	606.1	2,908.7	0.00	0.00	0.00
14,100.0	90.00	359.54	11,066.0	2,956.5	605.3	3,007.8	0.00	0.00	0.00
14,200.0	90.00	359.54	11,066.0	3,056.5	604.5	3,107.0	0.00	0.00	0.00
14,300.0	90.00	359.54	11,066.0	3,156.5	603.7	3,206.2	0.00	0.00	0.00
14,400.0	90.00	359.54	11,066.0	3,256.5	602.9	3,305.4	0.00	0.00	0.00
14,500.0	90.00	359.54	11,066.0	3,356.5	602.1	3,404.5	0.00	0.00	0.00
14,600.0	90.00	359.54	11,066.0	3,456.5	601.3	3,503.7	0.00	0.00	0.00
14,700.0	90.00	359.54	11,066.0	3,556.5	600.5	3,602.9	0.00	0.00	0.00
14,800.0	90.00	359.54	11,066.0	3,656.5	599.7	3,702.1	0.00	0.00	0.00
14,900.0	90.00	359.54	11,066.0	3,756.5	598.9	3,801.2	0.00	0.00	0.00
15,000.0	90.00	359.54	11,066.0	3,856.5	598.1	3,900.4	0.00	0.00	0.00
15,100.0	90.00	359.54	11,066.0	3,956.5	597.3	3,999.6	0.00	0.00	0.00
15,200.0	90.00	359.54	11,066.0	4,056.5	596.5	4,098.8	0.00	0.00	0.00
15,300.0	90.00	359.54	11,066.0	4,156.5	595.7	4,198.0	0.00	0.00	0.00
15,400.0	90.00	359.54	11,066.0	4,256.5	594.9	4,297.1	0.00	0.00	0.00
15,500.0	90.00	359.54	11,066.0	4,356.5	594.1	4,396.3	0.00	0.00	0.00
15,600.0	90.00	359.54	11,066.0	4,456.5	593.3	4,495.5	0.00	0.00	0.00
15,700.0	90.00	359.54	11,066.0	4,556.5	592.5	4,594.7	0.00	0.00	0.00
15,800.0	90.00	359.54	11,066.0	4,656.5	591.7	4,693.8	0.00	0.00	0.00
15,900.0	90.00	359.54	11,066.0	4,756.5	590.9	4,793.0	0.00	0.00	0.00
16,000.0	90.00	359.54	11,066.0	4,856.5	590.1	4,892.2	0.00	0.00	0.00
16,016.5	90.00	359.54	11,066.0	4,873.0	590.0	4,908.6	0.00	0.00	0.00

PBHL(Adder 31 State #505H)

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 #505H) - hit/miss target - Shape - Point	0.00	0.00	10,588.5	-257.0	631.0	425,256.00	766,076.00	32° 10' 1.279 N	103° 36' 25.313 W
PBHL(Adder 31 State #505H) - plan hits target center - Point	0.00	0.00	11,066.0	4,873.0	590.0	430,386.00	766,035.00	32° 10' 52.045 N	103° 36' 25.387 W
FTP(Adder 31 State #505H) - plan misses target center by 163.4usft at 11016.1usft MD (10944.9 TVD, -97.3 N, 629.7 E) - Point	0.00	0.00	11,066.0	-207.0	631.0	425,306.00	766,076.00	32° 10' 1.774 N	103° 36' 25.309 W



Lea County, NM (NAD 83 NME)

Adder 31 State #505H

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: #505H

KB = 25 @ 3426.0usft 3501.0
Northing 425913.00 Easting 765445.00 Latitude 32° 10' 3.663 N Longitude 103° 36' 32.633 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	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	1514.7	4.29	112.16	1514.5	-3.0	7.4	2.00	112.16	-2.1	
4	10399.1	4.29	112.16	10374.0	-254.0	623.6	0.00	0.00	-177.2	
5	10613.8	0.00	0.00	10588.5	-257.0	631.0	2.00	180.00	-179.3	KOP(Adder 31 State #505H)
6	11363.8	90.00	359.54	11066.0	220.4	627.2	12.00	359.54	294.2	
7	16016.5	90.00	359.54	11066.0	4873.0	590.0	0.00	0.00	4908.6	PBHL(Adder 31 State #505H)

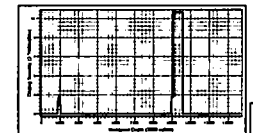
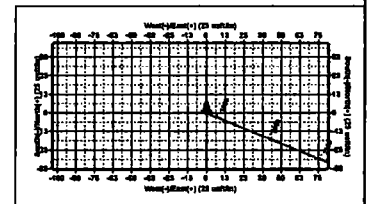
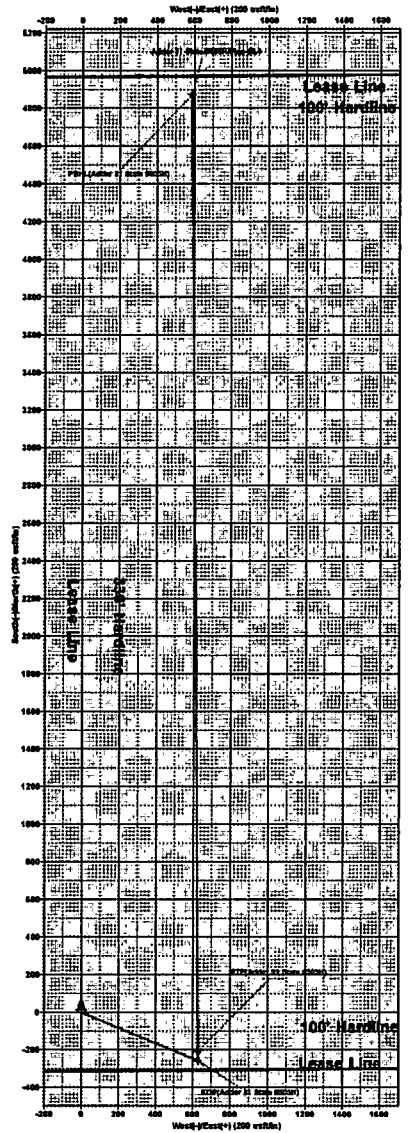
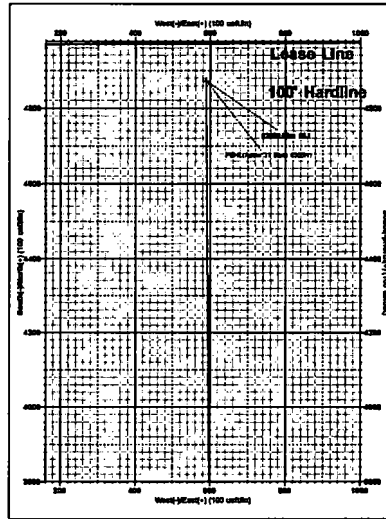
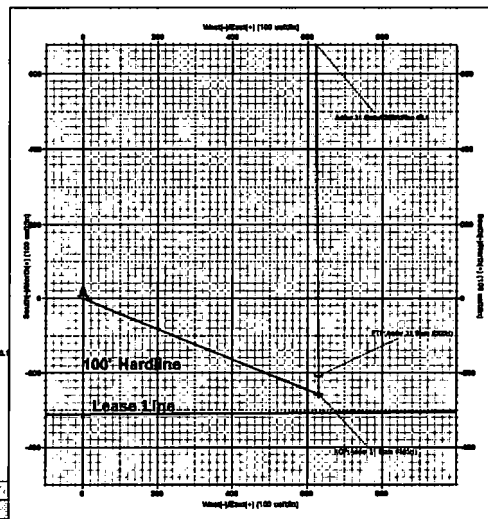
To convert a Magnetic Direction to a Grid Direction, Add 6.39°
To convert a Magnetic Direction to a True Direction, Add 6.70° East
To convert a True Direction to a Grid Direction, Subtract 0.39°

CASING DETAILS

No casing data is available

WELLBORE TARDRY DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP(Adder 31 State #505H)	10528.5	-287.0	631.0	425338.00	766074.00
PBHL(Adder 31 State #505H)	11066.0	4873.0	630.0	425338.00	766074.00
FTP(Adder 31 State #505H)	11066.0	-207.0	631.0	425338.00	766074.00



Lea County, NM (NAD 83 NME)
Adder 31 State #505H
Plan #0.1