

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. 30-015-46278
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG RESOURCES		6. State Oil & Gas Lease No. 325170
3. Address of Operator P O BOX 2267, MIDLAND TX 79702		7. Lease Name or Unit Agreement Name QUAIL 2 STATE
4. Well Location Unit Letter <u>D</u> : <u>485</u> feet from the <u>NORTH</u> line and <u>273</u> feet from the <u>WEST</u> line Section <u>2</u> Township <u>26S</u> Range <u>30E</u> NMPM County <u>EDDY CO, NM</u>		8. Well Number 768H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3207 GL		9. OGRID Number 7377
		10. Pool name or Wildcat [98220] PURPLE SAGE; WOLFCAMP (GAS)

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: ☐	NAME CHANGE ☒	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:
Change name to Quail 2 State Com #768H

NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 09 2019

RECEIVED

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 09/19/19

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

For State Use Only

APPROVED BY: Raymond R. Edrington TITLE Geologist DATE 10-9-19
Conditions of Approval (if any):

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NM OIL CONSERVATION
ARTESIA DISTRICT
State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

OCT 09 2019

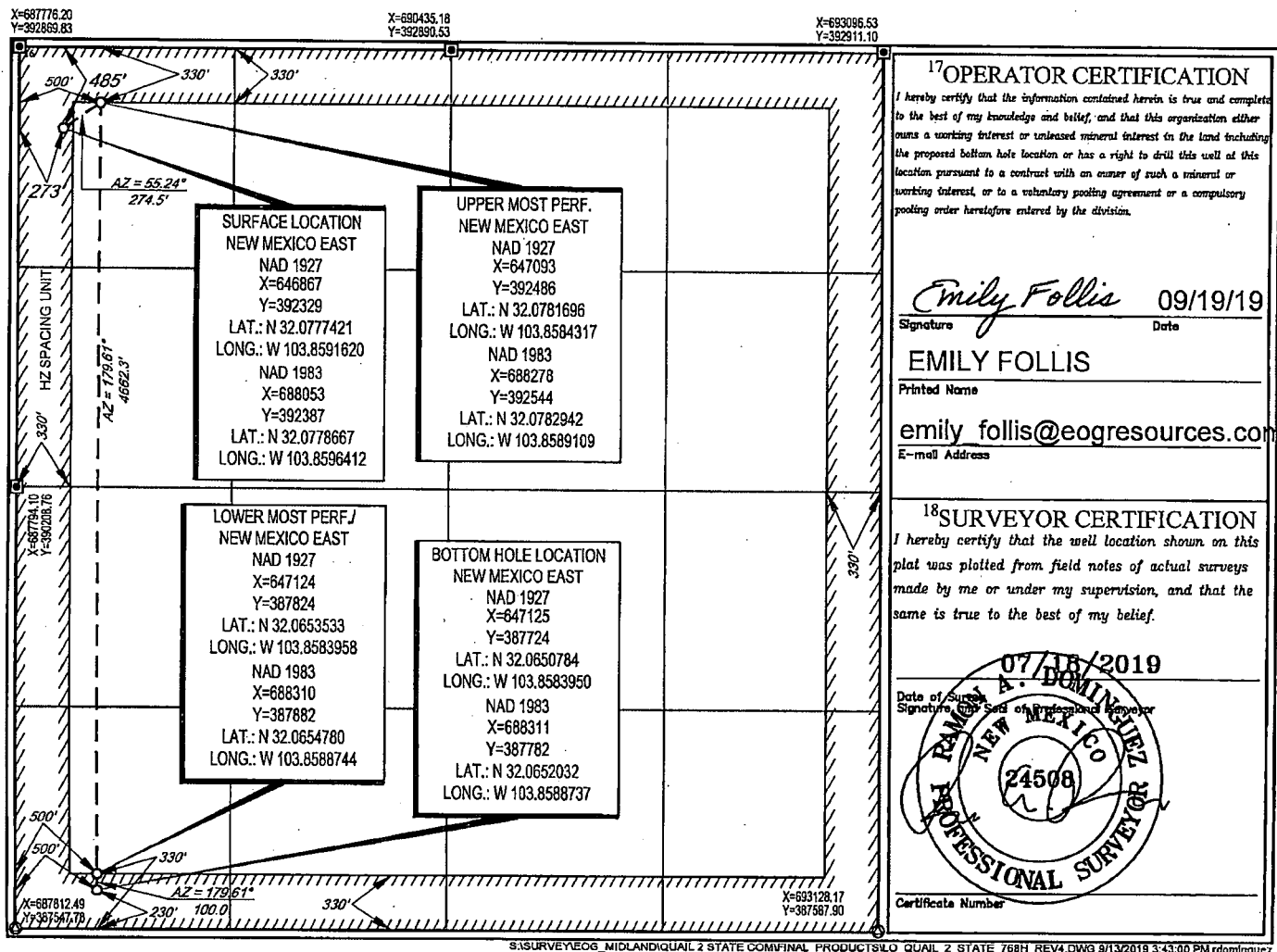
FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46278		² Pool Code 98220		³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)	
⁴ Property Code 325170		⁵ Property Name QUAIL 2 STATE COM			⁶ Well Number 768H
⁷ GRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3207'
¹⁰ Surface Location					
UL or lot no. D	Section 2	Township 26-S	Range 30-E	Lot Idn -	Feet from the 485'
		North/South line NORTH		Feet from the 273'	East/West line WEST
				County EDDY	
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. M	Section 2	Township 26-S	Range 30-E	Lot Idn -	Feet from the 230'
		North/South line SOUTH		Feet from the 500'	East/West line WEST
				County EDDY	
¹² Dedicated Acres 640.00		¹³ Joint or Infill		¹⁴ Order No.	

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.





NM OIL CONSERVATION
ARTESIA DISTRICT

OCT 09 2019

RECEIVED

EOG Resources - Midland

Eddy County, NM (NAD 83 NME)

Quail 2 State

#768H

OH

Plan: Plan #0.1

Standard Planning Report

27 August, 2019



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #768H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3232.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3232.0usft
Site:	Quail 2 State	North Reference:	Grid
Well:	#768H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project:	Eddy 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:	Quail 2 State		
Site Position:	Northings:	392,582.00 usft	Latitude: 32° 4' 42.190 N
From: Map	Eastings:	689,374.00 usft	Longitude: 103° 51' 19.344 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.25 °

Well:	#768H		
Well Position	+N/-S	-195.0 usft	Northings: 392,387.00 usft
	+E/-W	-1,321.0 usft	Eastings: 688,053.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,207.0 usft

Wellbore:	OH		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/27/2019	6.84	59.85	47,597.52488186

Design:	Plan #0.1		
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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	176.79

Plan Survey Tool Program			Date: 8/27/2019	
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,948.4	Plan #0.1 (OH)	MWD
			OWSG MWD - Standard	

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,513.2	6.26	27.24	1,512.6	15.2	7.8	2.00	2.00	0.00	27.24	
5,704.0	6.26	27.24	5,678.4	421.8	217.2	0.00	0.00	0.00	0.00	
6,017.3	0.00	0.00	5,991.0	437.0	225.0	2.00	-2.00	0.00	180.00	
11,633.8	0.00	0.00	11,607.5	437.0	225.0	0.00	0.00	0.00	0.00	KOP(Quail 2 State #7
12,383.8	90.00	179.63	12,085.0	-40.5	228.1	12.00	12.00	23.95	179.63	
16,948.4	90.00	179.63	12,085.0	-4,605.0	258.0	0.00	0.00	0.00	0.00	PBHL(Quail 2 State #



Planning Report

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Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3232.0usft
Site:	Quail 2 State	North Reference:	Grid
Well:	#768H	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)
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	2.00	27.24	1,300.0	1.6	0.8	-1.5	2.00	2.00	0.00
1,400.0	4.00	27.24	1,399.8	6.2	3.2	-6.0	2.00	2.00	0.00
1,500.0	6.00	27.24	1,499.5	14.0	7.2	-13.5	2.00	2.00	0.00
1,513.2	6.26	27.24	1,512.6	15.2	7.8	-14.7	2.00	2.00	0.00
1,600.0	6.26	27.24	1,598.9	23.6	12.2	-22.9	0.00	0.00	0.00
1,700.0	6.26	27.24	1,698.3	33.3	17.2	-32.3	0.00	0.00	0.00
1,800.0	6.26	27.24	1,797.7	43.0	22.2	-41.7	0.00	0.00	0.00
1,900.0	6.26	27.24	1,897.1	52.7	27.2	-51.1	0.00	0.00	0.00
2,000.0	6.26	27.24	1,996.5	62.4	32.1	-60.5	0.00	0.00	0.00
2,100.0	6.26	27.24	2,095.9	72.1	37.1	-69.9	0.00	0.00	0.00
2,200.0	6.26	27.24	2,195.3	81.8	42.1	-79.4	0.00	0.00	0.00
2,300.0	6.26	27.24	2,294.7	91.5	47.1	-88.8	0.00	0.00	0.00
2,400.0	6.26	27.24	2,394.1	101.2	52.1	-98.2	0.00	0.00	0.00
2,500.0	6.26	27.24	2,493.5	110.9	57.1	-107.6	0.00	0.00	0.00
2,600.0	6.26	27.24	2,592.9	120.6	62.1	-117.0	0.00	0.00	0.00
2,700.0	6.26	27.24	2,692.3	130.3	67.1	-126.4	0.00	0.00	0.00
2,800.0	6.26	27.24	2,791.7	140.0	72.1	-135.8	0.00	0.00	0.00
2,900.0	6.26	27.24	2,891.1	149.7	77.1	-145.2	0.00	0.00	0.00
3,000.0	6.26	27.24	2,990.5	159.5	82.1	-154.6	0.00	0.00	0.00
3,100.0	6.26	27.24	3,089.9	169.2	87.1	-164.0	0.00	0.00	0.00
3,200.0	6.26	27.24	3,189.3	178.9	92.1	-173.4	0.00	0.00	0.00
3,300.0	6.26	27.24	3,288.7	188.6	97.1	-182.8	0.00	0.00	0.00
3,400.0	6.26	27.24	3,388.1	198.3	102.1	-192.2	0.00	0.00	0.00
3,500.0	6.26	27.24	3,487.5	208.0	107.1	-201.6	0.00	0.00	0.00
3,600.0	6.26	27.24	3,586.9	217.7	112.1	-211.1	0.00	0.00	0.00
3,700.0	6.26	27.24	3,686.3	227.4	117.1	-220.5	0.00	0.00	0.00
3,800.0	6.26	27.24	3,785.7	237.1	122.1	-229.9	0.00	0.00	0.00
3,900.0	6.26	27.24	3,885.1	246.8	127.1	-239.3	0.00	0.00	0.00
4,000.0	6.26	27.24	3,984.5	256.5	132.0	-248.7	0.00	0.00	0.00
4,100.0	6.26	27.24	4,083.9	266.2	137.0	-258.1	0.00	0.00	0.00
4,200.0	6.26	27.24	4,183.3	275.9	142.0	-267.5	0.00	0.00	0.00
4,300.0	6.26	27.24	4,282.7	285.6	147.0	-276.9	0.00	0.00	0.00
4,400.0	6.26	27.24	4,382.1	295.3	152.0	-286.3	0.00	0.00	0.00
4,500.0	6.26	27.24	4,481.5	305.0	157.0	-295.7	0.00	0.00	0.00
4,600.0	6.26	27.24	4,580.9	314.7	162.0	-305.1	0.00	0.00	0.00
4,700.0	6.26	27.24	4,680.3	324.4	167.0	-314.5	0.00	0.00	0.00
4,800.0	6.26	27.24	4,779.7	334.1	172.0	-323.9	0.00	0.00	0.00
4,900.0	6.26	27.24	4,879.2	343.8	177.0	-333.3	0.00	0.00	0.00
5,000.0	6.26	27.24	4,978.6	353.5	182.0	-342.8	0.00	0.00	0.00
5,100.0	6.26	27.24	5,078.0	363.2	187.0	-352.2	0.00	0.00	0.00
5,200.0	6.26	27.24	5,177.4	372.9	192.0	-361.6	0.00	0.00	0.00



Planning Report

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Site:	Quail 2 State	North Reference:	Grid
Well:	#768H	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	6.26	27.24	5,276.8	382.6	197.0	-371.0	0.00	0.00	0.00
5,400.0	6.26	27.24	5,376.2	392.3	202.0	-380.4	0.00	0.00	0.00
5,500.0	6.26	27.24	5,475.6	402.0	207.0	-389.8	0.00	0.00	0.00
5,600.0	6.26	27.24	5,575.0	411.7	212.0	-399.2	0.00	0.00	0.00
5,704.0	6.26	27.24	5,678.4	421.8	217.2	-409.0	0.00	0.00	0.00
5,800.0	4.35	27.24	5,773.9	429.7	221.2	-416.6	2.00	-2.00	0.00
5,900.0	2.35	27.24	5,873.8	434.9	223.9	-421.7	2.00	-2.00	0.00
6,000.0	0.35	27.24	5,973.7	437.0	225.0	-423.7	2.00	-2.00	0.00
6,017.3	0.00	0.00	5,991.0	437.0	225.0	-423.7	2.00	-2.00	0.00
6,100.0	0.00	0.00	6,073.7	437.0	225.0	-423.7	0.00	0.00	0.00
6,200.0	0.00	0.00	6,173.7	437.0	225.0	-423.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,273.7	437.0	225.0	-423.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,373.7	437.0	225.0	-423.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,473.7	437.0	225.0	-423.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,573.7	437.0	225.0	-423.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,673.7	437.0	225.0	-423.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,773.7	437.0	225.0	-423.7	0.00	0.00	0.00
6,900.0	0.00	0.00	6,873.7	437.0	225.0	-423.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,973.7	437.0	225.0	-423.7	0.00	0.00	0.00
7,100.0	0.00	0.00	7,073.7	437.0	225.0	-423.7	0.00	0.00	0.00
7,200.0	0.00	0.00	7,173.7	437.0	225.0	-423.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,273.7	437.0	225.0	-423.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,373.7	437.0	225.0	-423.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,473.7	437.0	225.0	-423.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,573.7	437.0	225.0	-423.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,673.7	437.0	225.0	-423.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,773.7	437.0	225.0	-423.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,873.7	437.0	225.0	-423.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,973.7	437.0	225.0	-423.7	0.00	0.00	0.00
8,100.0	0.00	0.00	8,073.7	437.0	225.0	-423.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,173.7	437.0	225.0	-423.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,273.7	437.0	225.0	-423.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,373.7	437.0	225.0	-423.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,473.7	437.0	225.0	-423.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,573.7	437.0	225.0	-423.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,673.7	437.0	225.0	-423.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,773.7	437.0	225.0	-423.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,873.7	437.0	225.0	-423.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,973.7	437.0	225.0	-423.7	0.00	0.00	0.00
9,100.0	0.00	0.00	9,073.7	437.0	225.0	-423.7	0.00	0.00	0.00
9,200.0	0.00	0.00	9,173.7	437.0	225.0	-423.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,273.7	437.0	225.0	-423.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,373.7	437.0	225.0	-423.7	0.00	0.00	0.00
9,500.0	0.00	0.00	9,473.7	437.0	225.0	-423.7	0.00	0.00	0.00
9,600.0	0.00	0.00	9,573.7	437.0	225.0	-423.7	0.00	0.00	0.00
9,700.0	0.00	0.00	9,673.7	437.0	225.0	-423.7	0.00	0.00	0.00
9,800.0	0.00	0.00	9,773.7	437.0	225.0	-423.7	0.00	0.00	0.00
9,900.0	0.00	0.00	9,873.7	437.0	225.0	-423.7	0.00	0.00	0.00
10,000.0	0.00	0.00	9,973.7	437.0	225.0	-423.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,073.7	437.0	225.0	-423.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,173.7	437.0	225.0	-423.7	0.00	0.00	0.00
10,300.0	0.00	0.00	10,273.7	437.0	225.0	-423.7	0.00	0.00	0.00
10,400.0	0.00	0.00	10,373.7	437.0	225.0	-423.7	0.00	0.00	0.00
10,500.0	0.00	0.00	10,473.7	437.0	225.0	-423.7	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #768H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3232.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3232.0usft
Site:	Quail 2 State	North Reference:	Grid
Well:	#768H	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)	
10,600.0	0.00	0.00	10,573.7	437.0	225.0	-423.7	0.00	0.00	0.00	
10,700.0	0.00	0.00	10,673.7	437.0	225.0	-423.7	0.00	0.00	0.00	
10,800.0	0.00	0.00	10,773.7	437.0	225.0	-423.7	0.00	0.00	0.00	
10,900.0	0.00	0.00	10,873.7	437.0	225.0	-423.7	0.00	0.00	0.00	
11,000.0	0.00	0.00	10,973.7	437.0	225.0	-423.7	0.00	0.00	0.00	
11,100.0	0.00	0.00	11,073.7	437.0	225.0	-423.7	0.00	0.00	0.00	
11,200.0	0.00	0.00	11,173.7	437.0	225.0	-423.7	0.00	0.00	0.00	
11,300.0	0.00	0.00	11,273.7	437.0	225.0	-423.7	0.00	0.00	0.00	
11,400.0	0.00	0.00	11,373.7	437.0	225.0	-423.7	0.00	0.00	0.00	
11,500.0	0.00	0.00	11,473.7	437.0	225.0	-423.7	0.00	0.00	0.00	
11,600.0	0.00	0.00	11,573.7	437.0	225.0	-423.7	0.00	0.00	0.00	
11,633.8	0.00	0.00	11,607.5	437.0	225.0	-423.7	0.00	0.00	0.00	
KOP(Quail 2 State #768H)										
11,650.0	1.95	179.63	11,623.7	436.7	225.0	-423.5	12.00	12.00	0.00	
11,675.0	4.95	179.63	11,648.7	435.2	225.0	-422.0	12.00	12.00	0.00	
11,700.0	7.95	179.63	11,673.5	432.4	225.0	-419.1	12.00	12.00	0.00	
11,725.0	10.95	179.63	11,698.2	428.3	225.1	-415.1	12.00	12.00	0.00	
11,750.0	13.95	179.63	11,722.6	422.9	225.1	-409.7	12.00	12.00	0.00	
11,775.0	16.95	179.63	11,746.7	416.3	225.1	-403.0	12.00	12.00	0.00	
11,800.0	19.95	179.63	11,770.4	408.4	225.2	-395.1	12.00	12.00	0.00	
11,825.0	22.95	179.63	11,793.7	399.2	225.2	-386.0	12.00	12.00	0.00	
11,850.0	25.95	179.63	11,816.4	388.9	225.3	-375.7	12.00	12.00	0.00	
11,875.0	28.95	179.63	11,838.6	377.3	225.4	-364.2	12.00	12.00	0.00	
11,900.0	31.95	179.63	11,860.1	364.7	225.5	-351.5	12.00	12.00	0.00	
11,925.0	34.95	179.63	11,881.0	350.9	225.6	-337.7	12.00	12.00	0.00	
11,950.0	37.95	179.63	11,901.1	336.1	225.7	-322.9	12.00	12.00	0.00	
11,975.0	40.95	179.63	11,920.4	320.2	225.8	-307.0	12.00	12.00	0.00	
12,000.0	43.95	179.63	11,938.9	303.3	225.9	-290.2	12.00	12.00	0.00	
12,025.0	46.95	179.63	11,956.4	285.5	226.0	-272.4	12.00	12.00	0.00	
12,050.0	49.95	179.63	11,973.0	266.8	226.1	-253.7	12.00	12.00	0.00	
12,075.0	52.95	179.63	11,988.6	247.2	226.2	-234.2	12.00	12.00	0.00	
12,100.0	55.95	179.63	12,003.1	226.9	226.4	-213.9	12.00	12.00	0.00	
12,125.0	58.95	179.63	12,016.5	205.8	226.5	-192.8	12.00	12.00	0.00	
12,150.0	61.95	179.63	12,028.9	184.1	226.7	-171.1	12.00	12.00	0.00	
12,175.0	64.95	179.63	12,040.0	161.7	226.8	-148.8	12.00	12.00	0.00	
12,197.3	67.62	179.63	12,049.0	141.3	226.9	-128.4	12.00	12.00	0.00	
FTP(Quail 2 State #768H)										
12,200.0	67.95	179.63	12,050.0	138.8	227.0	-125.9	12.00	12.00	0.00	
12,225.0	70.95	179.63	12,058.8	115.4	227.1	-102.5	12.00	12.00	0.00	
12,250.0	73.95	179.63	12,066.3	91.6	227.3	-78.7	12.00	12.00	0.00	
12,275.0	76.95	179.63	12,072.6	67.4	227.4	-54.6	12.00	12.00	0.00	
12,300.0	79.95	179.63	12,077.6	42.9	227.6	-30.1	12.00	12.00	0.00	
12,325.0	82.95	179.63	12,081.4	18.2	227.7	-5.4	12.00	12.00	0.00	
12,350.0	85.95	179.63	12,083.8	-6.7	227.9	19.4	12.00	12.00	0.00	
12,375.0	88.95	179.63	12,084.9	-31.7	228.1	44.4	12.00	12.00	0.00	
12,383.8	90.00	179.63	12,085.0	-40.5	228.1	53.1	12.00	12.00	0.00	
12,400.0	90.00	179.63	12,085.0	-56.7	228.2	69.4	0.00	0.00	0.00	
12,500.0	90.00	179.63	12,085.0	-156.7	228.9	169.2	0.00	0.00	0.00	
12,600.0	90.00	179.63	12,085.0	-256.7	229.5	269.1	0.00	0.00	0.00	
12,700.0	90.00	179.63	12,085.0	-356.7	230.2	369.0	0.00	0.00	0.00	
12,800.0	90.00	179.63	12,085.0	-456.7	230.8	468.9	0.00	0.00	0.00	
12,900.0	90.00	179.63	12,085.0	-556.7	231.5	568.7	0.00	0.00	0.00	
13,000.0	90.00	179.63	12,085.0	-656.7	232.2	668.6	0.00	0.00	0.00	
13,100.0	90.00	179.63	12,085.0	-756.7	232.8	768.5	0.00	0.00	0.00	



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #768H.
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3232.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3232.0usft
Site:	Quail 2 State	North Reference:	Grid
Well:	#768H	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)	
13,200.0	90.00	179.63	12,085.0	-856.7	233.5	868.4	0.00	0.00	0.00	
13,300.0	90.00	179.63	12,085.0	-956.7	234.1	968.3	0.00	0.00	0.00	
13,400.0	90.00	179.63	12,085.0	-1,056.7	234.8	1,068.1	0.00	0.00	0.00	
13,500.0	90.00	179.63	12,085.0	-1,156.7	235.4	1,168.0	0.00	0.00	0.00	
13,600.0	90.00	179.63	12,085.0	-1,256.7	236.1	1,267.9	0.00	0.00	0.00	
13,700.0	90.00	179.63	12,085.0	-1,356.7	236.7	1,367.8	0.00	0.00	0.00	
13,800.0	90.00	179.63	12,085.0	-1,456.7	237.4	1,467.6	0.00	0.00	0.00	
13,900.0	90.00	179.63	12,085.0	-1,556.6	238.0	1,567.5	0.00	0.00	0.00	
14,000.0	90.00	179.63	12,085.0	-1,656.6	238.7	1,667.4	0.00	0.00	0.00	
14,100.0	90.00	179.63	12,085.0	-1,756.6	239.4	1,767.3	0.00	0.00	0.00	
14,200.0	90.00	179.63	12,085.0	-1,856.6	240.0	1,867.2	0.00	0.00	0.00	
14,300.0	90.00	179.63	12,085.0	-1,956.6	240.7	1,967.0	0.00	0.00	0.00	
14,400.0	90.00	179.63	12,085.0	-2,056.6	241.3	2,066.9	0.00	0.00	0.00	
14,500.0	90.00	179.63	12,085.0	-2,156.6	242.0	2,166.8	0.00	0.00	0.00	
14,600.0	90.00	179.63	12,085.0	-2,256.6	242.6	2,266.7	0.00	0.00	0.00	
14,700.0	90.00	179.63	12,085.0	-2,356.6	243.3	2,366.6	0.00	0.00	0.00	
14,800.0	90.00	179.63	12,085.0	-2,456.6	243.9	2,466.4	0.00	0.00	0.00	
14,900.0	90.00	179.63	12,085.0	-2,556.6	244.6	2,566.3	0.00	0.00	0.00	
15,000.0	90.00	179.63	12,085.0	-2,656.6	245.2	2,666.2	0.00	0.00	0.00	
15,100.0	90.00	179.63	12,085.0	-2,756.6	245.9	2,766.1	0.00	0.00	0.00	
15,200.0	90.00	179.63	12,085.0	-2,856.6	246.6	2,865.9	0.00	0.00	0.00	
15,300.0	90.00	179.63	12,085.0	-2,956.6	247.2	2,965.8	0.00	0.00	0.00	
15,400.0	90.00	179.63	12,085.0	-3,056.6	247.9	3,065.7	0.00	0.00	0.00	
15,500.0	90.00	179.63	12,085.0	-3,156.6	248.5	3,165.6	0.00	0.00	0.00	
15,600.0	90.00	179.63	12,085.0	-3,256.6	249.2	3,265.5	0.00	0.00	0.00	
15,700.0	90.00	179.63	12,085.0	-3,356.6	249.8	3,365.3	0.00	0.00	0.00	
15,800.0	90.00	179.63	12,085.0	-3,456.6	250.5	3,465.2	0.00	0.00	0.00	
15,900.0	90.00	179.63	12,085.0	-3,556.6	251.1	3,565.1	0.00	0.00	0.00	
16,000.0	90.00	179.63	12,085.0	-3,656.6	251.8	3,665.0	0.00	0.00	0.00	
16,100.0	90.00	179.63	12,085.0	-3,756.6	252.4	3,764.8	0.00	0.00	0.00	
16,200.0	90.00	179.63	12,085.0	-3,856.6	253.1	3,864.7	0.00	0.00	0.00	
16,300.0	90.00	179.63	12,085.0	-3,956.6	253.8	3,964.6	0.00	0.00	0.00	
16,400.0	90.00	179.63	12,085.0	-4,056.6	254.4	4,064.5	0.00	0.00	0.00	
16,500.0	90.00	179.63	12,085.0	-4,156.6	255.1	4,164.4	0.00	0.00	0.00	
16,600.0	90.00	179.63	12,085.0	-4,256.6	255.7	4,264.2	0.00	0.00	0.00	
16,700.0	90.00	179.63	12,085.0	-4,356.6	256.4	4,364.1	0.00	0.00	0.00	
16,800.0	90.00	179.63	12,085.0	-4,456.6	257.0	4,464.0	0.00	0.00	0.00	
16,900.0	90.00	179.63	12,085.0	-4,556.6	257.7	4,563.9	0.00	0.00	0.00	
16,948.4	90.00	179.63	12,085.0	-4,605.0	258.0	4,612.2	0.00	0.00	0.00	
PBHL(Quail 2 State #768H)										



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #768H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3232.0usft
Project:	Eddy County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3232.0usft
Site:	Quail 2 State	North Reference:	Grid
Well:	#768H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
KOP(Quail 2 State #768 - plan hits target center - Point	0.00	0.00	11,607.5	437.0	225.0	392,824.00	688,278.00	32° 4' 44.633 N	103° 51' 32.070 W
FTP(Quail 2 State #768 - plan misses target center by 39.3usft at 12197.3usft MD (12049.0 TVD, 141.3 N, 226.9 E) - Point	0.00	0.00	12,085.0	157.0	225.0	392,544.00	688,278.00	32° 4' 41.862 N	103° 51' 32.084 W
PBHL(Quail 2 State #76 - plan hits target center - Point	0.00	0.00	12,085.0	-4,605.0	258.0	387,782.00	688,311.00	32° 3' 54.736 N	103° 51' 31.944 W



Eddy County, NM (NAD 83 NME)

Quail 2 State #768H

Plan #0.1

PROJECT DETAILS: Eddy 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: #768H

KB = 25 @ 3332.0' depth
Northing 392387.00 Easting 688033.00
Latitude 32° 4' 40.318 N Longitude 103° 51' 34.707 W

Azimuths to Grid North
True North: -0.25°
Magnetic North: 0.59°
Magnetic Field
Strength: 47597.5anT
Dip Angle: 58.85°
Date: 8/27/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 0.59°
To convert a Magnetic Direction to a True Direction, Add 0.54° East
To convert a True Direction to a Grid Direction, Subtract 0.25°

SECTION DETAILS

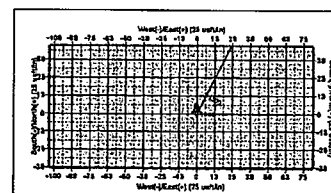
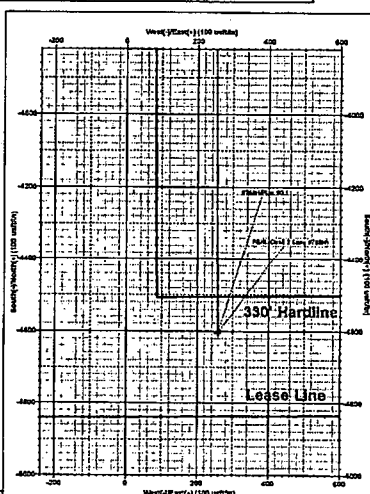
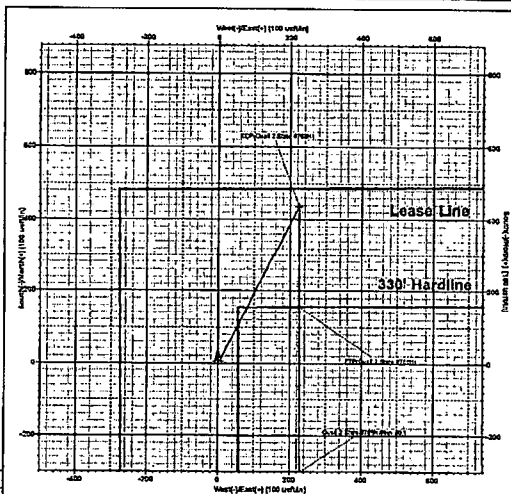
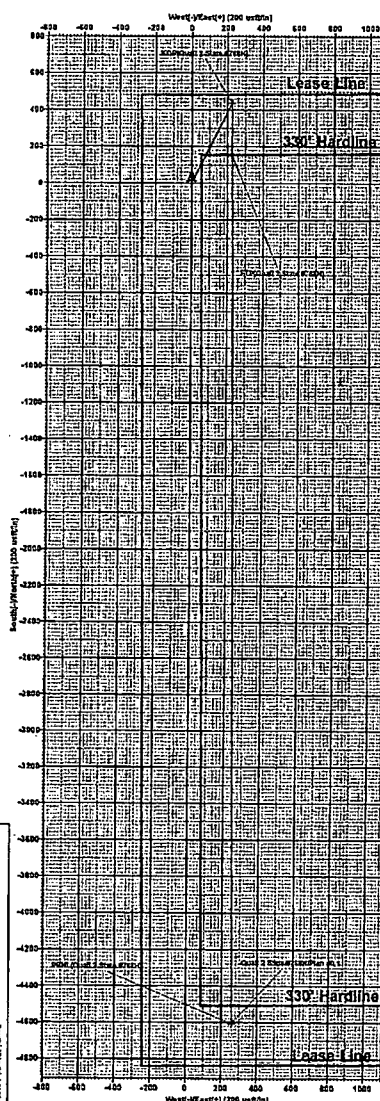
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSeal	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1513.2	6.26	27.24	1512.6	15.2	7.8	2.00	27.24	-14.7	
4	5704.0	6.26	27.24	5678.4	421.8	217.2	0.00	0.00	-409.0	
5	6017.3	0.00	0.00	5991.0	437.0	225.0	2.00	180.00	-423.7	
6	11633.8	0.00	0.00	11607.5	437.0	225.0	0.00	0.00	-423.7	KOP(Quail 2 State #768H)
7	12383.8	90.00	179.63	12085.0	-40.5	228.4	12.00	179.63	53.1	
8	16948.4	90.00	179.63	12085.0	-4605.0	258.0	0.00	0.00	4612.2	PBHL(Quail 2 State #768H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP(Quail 2 State #768H)	11607.5	437.0	215.0	332284.00	688778.00
PBHL(Quail 2 State #768H)	12085.0	-4605.0	254.0	337782.00	688311.00
FTP(Quail 2 State #768H)	12085.0	167.0	226.0	332644.00	688278.00



Vertical Section at 174.78° (700 units)