

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural
Resources

Form C-104
Revised August 1, 2011

Submit one copy to appropriate District Office

Oil Conservation Division
1220 South St. Francis Dr.

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE MINERAL AUTHORIZATION TO TRANSPORT

¹ Operator name and Address EOG RESOURCES INC PO BOX 2267 MIDLAND, TEXAS 79702		² OGRID Number 7377	
		³ Reason for Filing Code/ Effective Date NW 11/21/2020	
⁴ API Number 30 - 025-46383	⁵ Pool Name JENNINGS; UPPER BONE SPRING SHALE		⁶ Pool Code 97838
⁷ Property Code 313191	⁸ Property Name GEM 36 STATE COM		⁹ Well Number 103H

II. ¹⁰ Surface Location

UL or lot no. C	Section 36	Township 25S	Range 32E	Lot Idn	Feet from the 248'	North/South Line NORTH	Feet from the 1949'	East/West line WEST	County LEA
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¹¹ Bottom Hole Location

UL or lot no. N	Section 36	Township 25S	Range 32E	Lot Idn	Feet from the 110'	North/South line SOUTH	Feet from the 1660'	East/West line WEST	County LEA
¹² Lse Code	¹³ Producing Method Code FLOWING	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date		

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
372812	EOGRM	OIL
151618	ENTERPRISE FIELD SERVICES	GAS
298751	REGENCY FIELD SERVICES	GAS
36785	DCP MIDSTREAM	GAS

IV. Well Completion Data

²¹ Spud Date 10/07/2019	²² Ready Date 11/21/2020	²³ TD 14,110'	²⁴ PBTD 14,071'	²⁵ Perforations 9441 - 14,071'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17 1/2"		13 3/8"	895'		780 SXS CL C/CIRC
12 1/4"		9 5/8"	4735'		1465 SXS CL C/CIRC
8 1/2"		5 1/2"	14,110'		1517 SXS CL H TOC 2410' CBL

V. Well Test Data

³¹ Date New Oil 11/21/2020	³² Gas Delivery Date 11/21/2020	³³ Test Date 11/25/2020	³⁴ Test Length 24	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 752
³⁷ Choke Size 84	³⁸ Oil 1933	³⁹ Water 4835	⁴⁰ Gas 4835		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: Kay Maddox			OIL CONSERVATION DIVISION Approved by: Title: Approval Date:		
Printed name: Kay Maddox					
Title: SENIOR REGULATORY SPECIALIST					
E-mail Address: kay_maddox@eogresources.com					
Date: 12/19/2020		Phone: 432-638-8475			

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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 30-025-46383	² Pool Code 97838	³ Pool Name JENNINGS; UPPER BONE SPRING SHALE
⁴ Property Code 313191	⁵ Property Name GEM 36 STATE COM	⁶ Well Number 103H
⁷ GRID No. 97838	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3400'

¹⁰Surface Location

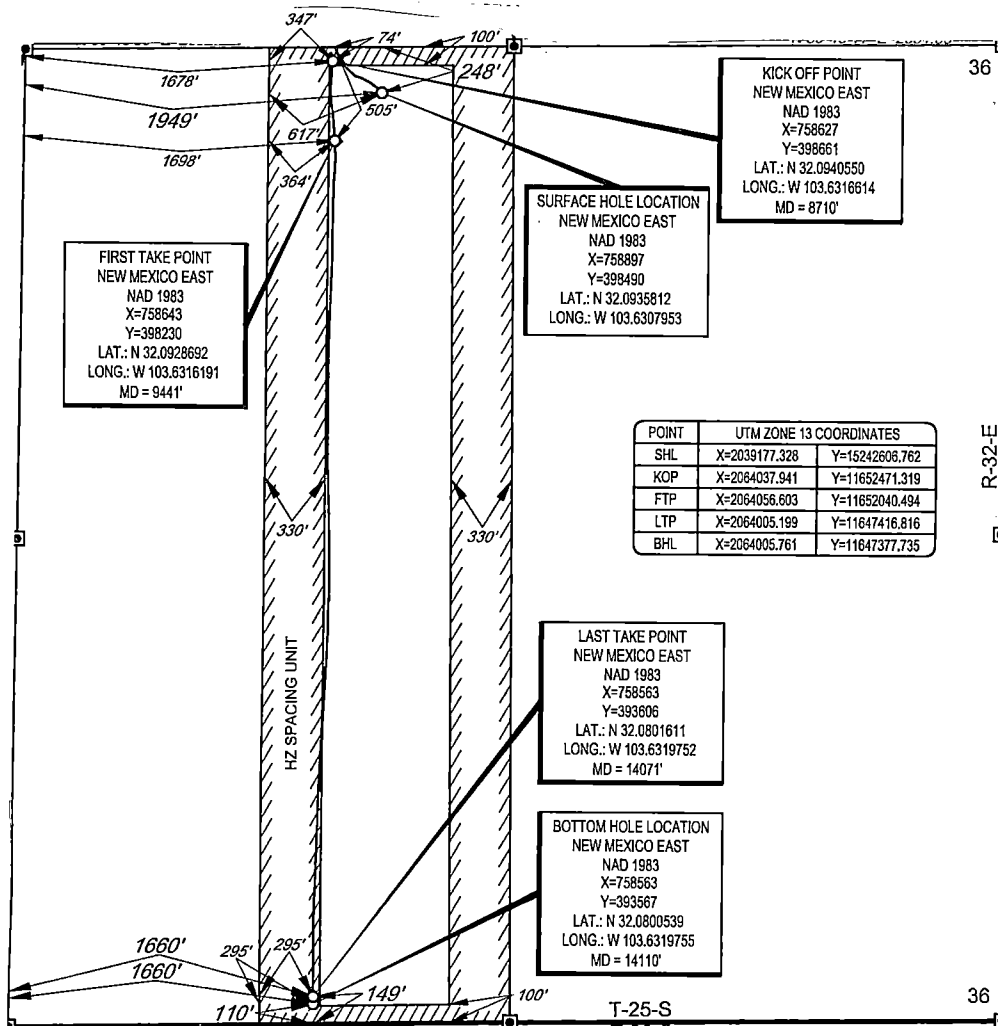
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	25-S	32-E	-	248'	NORTH	1949'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	36	25-S	32-E	-	110'	SOUTH	1660'	WEST	LEA

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

¹⁷OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Kay Maddox 12/18/2020
Signature Date

KAY MADDOX

Printed Name

KAY MADDOX@EOGRESOURCES.COM

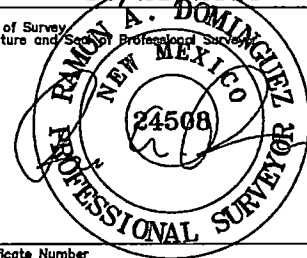
E-mail Address

¹⁸SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

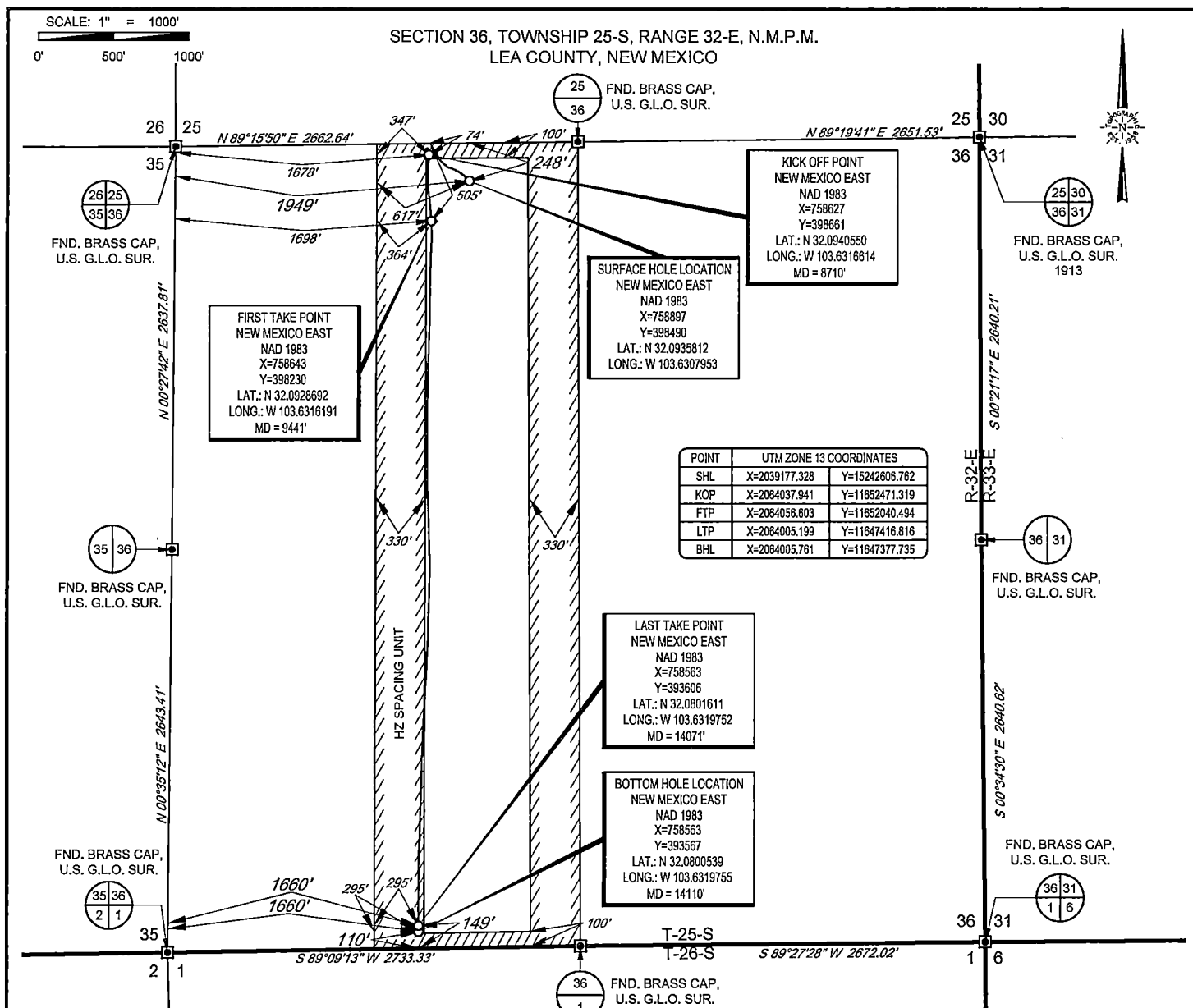
08/28/2019

Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number

S:\SURVEY\EOG_MIDLAND\GEM_36_STATE\FINAL_PRODUCTS\SILO_GEM_36_STATE_COM_103H.DWG 9/11/2019 8:24:04 AM rdominguez



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

Geog resources, Inc.



Ramon A. Dominguez, P.S. No. 24508

GEM 36 STATE COM #103H AS-COMPLETE DATE: 10/4/2020 FILE: AD_GEM_36_STATE_COM_103H DRAWN BY: IMU SHEET: 1 OF 1	REVISION:	NOTES: 1. ORIGINAL DOCUMENT SIZE: 8.5" X 11" 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. 3. THIS WELL LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

S:\SURVEY\EOG_MIDLAND\GEM_36_STATE\FINAL_PRODUCTS\AD_GEM_36_STATE_COM_103H.DWG 10/6/2020 9:03:44 AM bgregory



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Gem 36 State Com

#103H

OH

Design: OH

Midland PVA

01 December, 2019

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #103H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3425.0usft
Site:	Gem 36 State Com	MD Reference:	KB = 25 @ 3425.0usft
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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	Gem 36 State Com		
Site Position:		Northing:	393,686.00 usft
From:	Map	Easting:	759,213.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 49.331 N
		Longitude:	103° 37' 47.552 W
		Grid Convergence:	0.37 °

Well		#103H				
Well Position	+N/-S	0.0 usft	Northing:	398,490.00 usft	Latitude:	32° 5' 36.889 N
	+E/-W	0.0 usft	Easting:	758,897.00 usft	Longitude:	103° 37' 50.861 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,400.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/18/2019	6.71	59.90	47,606.07521307

Design	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	183.48

Survey Program	Date	12/1/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
197.0	14,110.0	Driltech MWD (OH)	MWD	OWSG MWD - Standard



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #103H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3425.0usft
Site:	Gem 36 State Com	MD Reference:	KB = 25 @ 3425.0usft
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
197.0	0.53	207.27	197.0	-0.8	-0.4	0.27	0.27	0.00	0.0	0.0
314.0	0.53	185.30	314.0	-1.8	-0.7	0.17	0.00	-18.78	0.0	0.0
404.0	0.26	237.33	404.0	-2.4	-0.9	0.47	-0.30	57.81	0.0	0.0
492.0	0.18	293.84	492.0	-2.4	-1.2	0.25	-0.09	64.22	0.0	0.0
577.0	0.09	181.87	577.0	-2.4	-1.3	0.27	-0.11	-131.73	0.0	0.0
674.0	0.26	288.39	674.0	-2.4	-1.6	0.31	0.18	109.81	0.0	0.0
766.0	0.35	280.22	766.0	-2.3	-2.0	0.11	0.10	-8.88	0.0	0.0
830.0	0.53	193.73	830.0	-2.6	-2.3	0.96	0.28	-135.14	0.0	0.0
930.0	0.44	261.94	930.0	-3.1	-2.8	0.55	-0.09	68.21	-0.2	-0.4
1,056.0	3.34	325.74	1,055.9	-0.1	-5.3	2.52	2.30	50.63	-3.2	-0.2
1,151.0	4.84	327.94	1,150.7	5.6	-9.0	1.59	1.58	2.32	-5.5	-0.1
1,244.0	5.45	325.22	1,243.3	12.5	-13.6	0.71	0.66	-2.92	-6.5	0.0
1,339.0	5.72	316.78	1,337.8	19.7	-19.4	0.91	0.28	-8.88	-6.9	-1.2
1,434.0	5.98	309.66	1,432.3	26.3	-26.5	0.81	0.27	-7.49	-7.4	-3.5
1,530.0	5.63	309.48	1,527.9	32.5	-34.0	0.37	-0.36	-0.19	-8.1	-4.4
1,625.0	5.10	310.72	1,622.4	38.2	-40.8	0.57	-0.56	1.31	-8.1	-5.3
1,720.0	5.80	304.30	1,717.0	43.7	-47.9	0.98	0.74	-6.76	-7.5	-6.7
1,815.0	6.24	303.16	1,811.5	49.2	-56.2	0.48	0.46	-1.20	-8.4	-6.9
1,910.0	6.07	302.72	1,905.9	54.7	-64.8	0.19	-0.18	-0.46	-9.5	-6.8
2,004.0	5.89	299.99	1,999.4	59.8	-73.1	0.36	-0.19	-2.90	-10.1	-6.9
2,099.0	5.72	297.53	2,093.9	64.5	-81.5	0.32	-0.18	-2.59	-10.5	-6.6
2,288.0	5.54	294.63	2,282.0	72.6	-98.2	0.18	-0.10	-1.53	-11.0	-4.8
2,383.0	5.98	294.46	2,376.5	76.6	-106.9	0.46	0.46	-0.18	-11.7	-3.4
2,478.0	6.24	293.75	2,471.0	80.7	-116.1	0.29	0.27	-0.75	-12.9	-2.1
2,570.0	5.98	290.85	2,562.5	84.4	-125.1	0.44	-0.28	-3.15	-14.1	-1.0
2,664.0	5.63	287.34	2,656.0	87.5	-134.1	0.53	-0.37	-3.73	-15.0	0.3



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #103H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #103H
TVD Reference: KB = 25 @ 3425.0usft
MD Reference: KB = 25 @ 3425.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,759.0	5.45	292.08	2,750.6	90.6	-142.8	0.52	-0.19	4.99	-15.2	3.7
2,853.0	5.54	310.19	2,844.1	95.2	-150.4	1.84	0.10	19.27	-13.3	8.6
2,946.0	5.01	311.15	2,936.7	100.8	-156.8	0.58	-0.57	1.03	-13.0	7.8
3,041.0	4.92	310.45	3,031.4	106.2	-163.1	0.11	-0.09	-0.74	-12.4	6.5
3,136.0	4.57	310.80	3,126.1	111.3	-169.0	0.37	-0.37	0.37	-11.3	5.5
3,231.0	5.10	312.12	3,220.7	116.6	-175.0	0.57	0.56	1.39	-10.3	4.5
3,326.0	6.68	315.73	3,315.2	123.4	-182.0	1.71	1.66	3.80	-10.9	3.5
3,419.0	5.98	311.33	3,407.6	130.4	-189.4	0.92	-0.75	-4.73	-12.7	1.1
3,512.0	5.36	312.82	3,500.2	136.6	-196.3	0.69	-0.67	1.60	-13.2	0.1
3,606.0	5.10	317.83	3,593.8	142.7	-202.3	0.56	-0.28	5.33	-13.0	-0.5
3,699.0	4.75	329.17	3,686.5	149.1	-207.0	1.11	-0.38	12.19	-12.8	-0.9
3,792.0	4.04	327.15	3,779.2	155.1	-210.8	0.78	-0.76	-2.17	-11.8	-5.0
3,887.0	2.81	329.61	3,874.0	159.9	-213.8	1.30	-1.29	2.59	-9.6	-8.3
3,982.0	2.20	324.87	3,968.9	163.4	-216.0	0.68	-0.64	-4.99	-4.7	-12.5
4,077.0	3.08	319.86	4,063.8	166.9	-218.7	0.96	0.93	-5.27	0.7	-15.5
4,172.0	2.37	309.57	4,158.7	170.1	-221.9	0.90	-0.75	-10.83	7.9	-16.5
4,267.0	1.41	289.89	4,253.7	171.7	-224.5	1.21	-1.01	-20.72	18.7	-11.5
4,362.0	0.79	232.32	4,348.6	171.7	-226.1	1.25	-0.65	-60.60	21.3	17.2
4,456.0	1.32	183.54	4,442.6	170.2	-226.7	1.06	0.56	-51.89	-4.8	34.6
4,551.0	2.29	171.41	4,537.6	167.3	-226.5	1.09	1.02	-12.77	-20.9	39.3
4,667.0	2.55	168.77	4,653.5	162.5	-225.6	0.24	0.22	-2.28	-35.2	45.9
4,815.0	2.20	160.33	4,801.4	156.6	-224.0	0.33	-0.24	-5.70	-54.8	44.9
4,910.0	1.32	190.57	4,896.3	153.8	-223.6	1.32	-0.93	31.83	-28.1	68.7
5,002.0	2.37	269.06	4,988.3	152.7	-225.7	2.69	1.14	85.32	59.6	42.3
5,097.0	5.19	293.84	5,083.1	154.4	-231.6	3.36	2.97	26.08	65.8	14.3
5,191.0	5.19	293.93	5,176.7	157.8	-239.4	0.01	0.00	0.10	57.3	14.2
5,286.0	5.45	297.00	5,271.3	161.6	-247.3	0.41	0.27	3.23	49.2	11.3

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #103H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #103H
TVD Reference: KB = 25 @ 3425.0usft
MD Reference: KB = 25 @ 3425.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,380.0	5.45	296.04	5,364.8	165.6	-255.3	0.10	0.00	-1.02	40.0	12.1
5,475.0	5.54	295.69	5,459.4	169.6	-263.5	0.10	0.09	-0.37	30.9	12.3
5,569.0	5.01	315.99	5,553.0	174.5	-270.4	2.05	-0.56	21.60	24.8	2.4
5,662.0	4.75	317.31	5,645.7	180.2	-275.9	0.30	-0.28	1.42	17.0	1.9
5,758.0	3.43	306.50	5,741.4	184.9	-280.9	1.59	-1.37	-11.26	9.6	4.3
5,851.0	2.55	271.25	5,834.3	186.6	-285.2	2.14	-0.95	-37.90	1.0	7.4
5,946.0	2.90	275.30	5,929.2	186.8	-289.7	0.42	0.37	4.26	-3.0	7.5
6,041.0	2.11	276.00	6,024.1	187.3	-293.8	0.83	-0.83	0.74	-7.1	7.5
6,137.0	1.85	307.11	6,120.1	188.4	-296.8	1.14	-0.27	32.41	-5.2	11.0
6,232.0	1.76	12.33	6,215.0	190.7	-297.7	2.05	-0.09	68.65	5.7	10.7
6,325.0	2.29	28.50	6,308.0	193.7	-296.5	0.83	0.57	17.39	5.2	9.1
6,420.0	2.37	38.43	6,402.9	197.0	-294.4	0.43	0.08	10.45	2.9	8.4
6,514.0	2.29	38.08	6,496.8	200.0	-292.0	0.09	-0.09	-0.37	-1.0	8.4
6,609.0	2.20	33.77	6,591.7	203.0	-289.8	0.20	-0.09	-4.54	-5.3	8.2
6,703.0	2.11	39.05	6,685.7	205.8	-287.7	0.23	-0.10	5.62	-8.1	8.8
6,797.0	1.90	32.98	6,779.6	208.5	-285.8	0.32	-0.22	-6.46	-12.2	7.7
6,890.0	2.20	44.14	6,872.6	211.0	-283.7	0.54	0.32	12.00	-13.8	10.2
6,983.0	1.49	87.21	6,965.5	212.4	-281.3	1.62	-0.76	46.31	-5.6	18.1
7,078.0	2.46	141.44	7,060.5	210.8	-278.8	2.10	1.02	57.08	8.7	16.2
7,173.0	2.29	139.77	7,155.4	207.8	-276.3	0.19	-0.18	-1.76	4.2	16.3
7,269.0	1.49	157.96	7,251.3	205.2	-274.6	1.03	-0.83	18.95	6.1	14.8
7,363.0	1.67	183.45	7,345.3	202.7	-274.2	0.76	0.19	27.12	9.4	11.3
7,457.0	1.32	169.21	7,439.3	200.2	-274.1	0.54	-0.37	-15.15	3.9	12.9
7,461.8	1.32	169.46	7,444.1	200.1	-274.0	0.16	-0.10	5.18	3.8	12.9
Brushy Top(Gem 36 State Com #103H)										
7,552.0	1.23	174.48	7,534.2	198.2	-273.8	0.16	-0.09	5.57	3.0	12.6
7,651.0	1.23	161.83	7,633.2	196.1	-273.3	0.27	0.00	-12.78	-2.0	12.7



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #103H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #103H
TVD Reference: KB = 25 @ 3425.0usft
MD Reference: KB = 25 @ 3425.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
7,746.0	1.06	167.98	7,728.2	194.3	-272.8	0.22	-0.18	6.47	-2.5	12.9
7,840.0	1.06	174.40	7,822.2	192.5	-272.6	0.13	0.00	6.83	-2.8	13.2
7,934.0	1.14	165.87	7,916.2	190.8	-272.3	0.19	0.09	-9.07	-6.5	12.5
8,027.0	1.49	163.23	8,009.1	188.7	-271.7	0.38	0.38	-2.84	-9.2	12.2
8,122.0	1.41	176.15	8,104.1	186.4	-271.2	0.35	-0.08	13.60	-8.6	14.2
8,216.0	1.32	159.54	8,198.1	184.2	-270.8	0.43	-0.10	-17.67	-14.5	10.8
8,310.0	1.41	161.04	8,292.1	182.1	-270.0	0.10	0.10	1.60	-16.4	11.2
8,403.0	1.58	175.98	8,385.0	179.7	-269.6	0.46	0.18	16.06	-15.4	15.4
8,497.0	1.32	183.27	8,479.0	177.4	-269.5	0.34	-0.28	7.76	-15.7	17.4
8,592.0	1.58	176.42	8,574.0	175.0	-269.5	0.33	0.27	-7.21	-20.0	15.3
8,709.0	2.64	178.44	8,690.9	170.7	-269.3	0.91	0.91	1.73	-22.2	16.1
8,710.0	2.80	178.84	8,691.9	170.6	-269.3	15.62	15.51	39.75	-22.1	16.2
KOP, MD:8710.0', TVD:8691.9', N/S:170.6', E/W:-269.3', INC:2.80										
8,802.0	17.15	184.50	8,782.3	154.8	-270.4	15.62	15.60	6.15	-21.6	17.4
8,836.0	19.91	183.91	8,814.5	144.0	-271.2	8.14	8.13	-1.73	-23.4	16.5
FTP Crossing, MD:8836.0', TVD:8814.5', N/S:144.0', E/W:-271.2', INC:19.91										
8,895.0	24.71	183.19	8,869.1	121.6	-272.5	8.14	8.13	-1.22	-25.4	14.9
8,990.0	29.72	185.21	8,953.5	78.3	-275.8	5.36	5.27	2.13	-22.7	12.2
9,085.0	38.69	182.04	9,032.0	25.1	-279.0	9.62	9.44	-3.34	-16.0	7.9
9,145.9	43.19	176.37	9,078.0	-14.8	-278.3	9.57	7.38	-9.30	-10.5	7.8
FTP (Gem 36 State Com #103H)										
9,180.0	45.81	173.61	9,102.3	-38.6	-276.2	9.57	7.70	-8.11	-6.8	9.9
9,228.0	49.59	171.85	9,134.6	-73.8	-271.7	8.33	7.87	-3.67	-0.8	14.9
9,275.0	54.17	172.02	9,163.6	-110.4	-266.5	9.75	9.74	0.36	5.9	20.8
9,307.0	58.74	174.13	9,181.3	-136.8	-263.3	15.30	14.28	6.59	10.6	24.1
9,338.0	62.96	174.57	9,196.4	-163.8	-260.7	13.67	13.61	1.42	14.1	26.9
9,369.0	66.21	175.89	9,209.7	-191.7	-258.4	11.17	10.48	4.26	17.4	29.1
9,464.0	78.70	175.98	9,238.3	-281.8	-252.0	13.15	13.15	0.09	23.9	35.6

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #103H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3425.0usft
Site:	Gem 36 State Com	MD Reference:	KB = 25 @ 3425.0usft
Well:	#103H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
9,504.0	85.30	177.47	9,243.9	-321.4	-249.7	16.91	16.50	3.72	24.6	37.7
9,559.0	88.11	183.19	9,247.0	-376.3	-250.0	11.57	5.11	10.40	25.1	37.4
9,653.0	91.45	182.92	9,247.4	-470.1	-255.0	3.56	3.55	-0.29	24.6	32.7
9,749.0	90.92	181.43	9,245.4	-566.0	-258.7	1.65	-0.55	-1.55	21.9	29.3
9,844.0	90.66	180.46	9,244.1	-661.0	-260.2	1.06	-0.27	-1.02	19.8	27.9
9,937.0	89.60	180.81	9,243.9	-754.0	-261.3	1.20	-1.14	0.38	18.8	27.1
10,033.0	89.96	180.99	9,244.3	-850.0	-262.8	0.42	0.37	0.19	18.3	25.9
10,127.0	90.84	180.55	9,243.6	-944.0	-264.0	1.05	0.94	-0.47	16.9	24.9
10,221.0	89.25	182.57	9,243.5	-1,037.9	-266.6	2.73	-1.69	2.15	16.0	22.5
10,316.0	89.08	182.48	9,244.9	-1,132.8	-270.8	0.20	-0.18	-0.09	16.6	18.6
10,411.0	86.88	181.25	9,248.3	-1,227.7	-273.9	2.65	-2.32	-1.29	19.2	15.7
10,505.0	86.88	180.81	9,253.4	-1,321.5	-275.6	0.47	0.00	-0.47	23.5	14.3
10,599.0	87.32	180.99	9,258.1	-1,415.4	-277.0	0.51	0.47	0.19	27.5	13.1
10,692.0	87.23	180.55	9,262.6	-1,508.3	-278.3	0.48	-0.10	-0.47	31.1	12.1
10,787.0	88.11	180.81	9,266.4	-1,603.2	-279.4	0.97	0.93	0.27	34.2	11.2
10,882.0	86.61	179.58	9,270.8	-1,698.1	-279.7	2.04	-1.58	-1.29	37.8	11.1
10,977.0	86.17	180.37	9,276.8	-1,792.9	-279.7	0.95	-0.46	0.83	42.9	11.4
11,072.0	86.61	179.76	9,282.8	-1,887.7	-279.8	0.79	0.46	-0.64	48.1	11.5
11,167.0	86.44	179.06	9,288.5	-1,982.5	-278.8	0.76	-0.18	-0.74	53.1	12.7
11,261.0	86.88	177.65	9,294.0	-2,076.3	-276.1	1.57	0.47	-1.50	57.8	15.7
11,353.0	86.88	178.35	9,299.0	-2,168.1	-272.9	0.76	0.00	0.76	62.0	19.1
11,447.0	86.44	177.30	9,304.5	-2,261.9	-269.4	1.21	-0.47	-1.12	66.7	22.9
11,542.0	87.58	178.00	9,309.4	-2,356.7	-265.5	1.41	1.20	0.74	70.9	27.0
11,636.0	86.70	179.06	9,314.1	-2,450.6	-263.1	1.46	-0.94	1.13	74.8	29.7
11,730.0	87.23	180.11	9,319.1	-2,544.4	-262.4	1.25	0.56	1.12	79.0	30.6
11,825.0	87.85	181.34	9,323.2	-2,639.3	-263.6	1.45	0.65	1.29	82.3	29.6
11,920.0	88.99	181.52	9,325.8	-2,734.3	-266.0	1.21	1.20	0.19	84.1	27.5

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #103H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #103H
TVD Reference: KB = 25 @ 3425.0usft
MD Reference: KB = 25 @ 3425.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,014.0	90.48	181.96	9,326.2	-2,828.2	-268.8	1.65	1.59	0.47	83.7	24.8
12,109.0	91.19	181.16	9,324.8	-2,923.2	-271.4	1.13	0.75	-0.84	81.6	22.5
12,203.0	89.87	182.48	9,324.0	-3,017.1	-274.4	1.99	-1.40	1.40	79.9	19.7
12,298.0	90.40	182.48	9,323.7	-3,112.0	-278.5	0.56	0.56	0.00	78.9	15.9
12,393.0	90.13	182.48	9,323.3	-3,206.9	-282.6	0.28	-0.28	0.00	77.7	12.0
12,488.0	88.55	183.54	9,324.4	-3,301.8	-287.6	2.00	-1.66	1.12	78.0	7.2
12,583.0	88.46	183.36	9,326.9	-3,396.6	-293.3	0.21	-0.09	-0.19	79.6	1.8
12,678.0	88.99	183.01	9,329.0	-3,491.4	-298.6	0.67	0.56	-0.37	81.0	-3.2
12,773.0	88.99	182.66	9,330.7	-3,586.3	-303.3	0.37	0.00	-0.37	81.8	-7.7
12,867.0	88.64	182.22	9,332.6	-3,680.2	-307.3	0.60	-0.37	-0.47	83.0	-11.5
12,961.0	88.81	182.04	9,334.7	-3,774.1	-310.8	0.26	0.18	-0.19	84.3	-14.7
13,056.0	88.90	181.78	9,336.6	-3,869.0	-313.9	0.29	0.09	-0.27	85.4	-17.6
13,151.0	89.08	181.08	9,338.3	-3,964.0	-316.3	0.76	0.19	-0.74	86.3	-19.8
13,246.0	89.87	182.31	9,339.1	-4,058.9	-319.1	1.54	0.83	1.29	86.4	-22.3
13,341.0	89.52	182.13	9,339.7	-4,153.8	-322.8	0.41	-0.37	-0.19	86.1	-25.8
13,434.0	90.48	182.04	9,339.7	-4,246.8	-326.2	1.04	1.03	-0.10	85.3	-28.9
13,509.4	90.07	181.83	9,339.3	-4,322.2	-328.7	0.61	-0.55	-0.27	84.3	-31.3
TGT#1(Gem 36 State Com #103H)										
13,529.0	89.96	181.78	9,339.3	-4,341.7	-329.3	0.61	-0.55	-0.27	84.0	-31.8
13,625.0	91.10	182.13	9,338.4	-4,437.7	-332.6	1.24	1.19	0.36	81.5	-34.9
13,718.0	90.40	180.20	9,337.2	-4,530.6	-334.5	2.21	-0.75	-2.08	78.8	-36.5
13,812.0	90.92	179.93	9,336.1	-4,624.6	-334.6	0.62	0.55	-0.29	76.1	-36.4
13,911.0	91.63	179.76	9,333.9	-4,723.6	-334.3	0.74	0.72	-0.17	72.2	-35.9
Last MWD Survey (MD=13911.0')										
14,110.0	91.63	179.76	9,328.2	-4,922.5	-333.5	0.00	0.00	0.00	63.2	-34.5
Projection to Bit (MD=14110.0') - PBHL (Gem 36 State Com #103H)										



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Gem 36 State Com
Well: #103H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #103H
TVD Reference: KB = 25 @ 3425.0usft
MD Reference: KB = 25 @ 3425.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,710.0	8,691.9	170.6	-269.3	KOP, MD:8710.0', TVD:8691.9',N/S:170.6', E/W:-269.3', INC:2.80
8,836.0	8,814.5	144.0	-271.2	FTP Crossing, MD:8836.0', TVD:8814.5',N/S:144.0', E/W:-271.2', INC:19.91
13,911.0	9,333.9	-4,723.6	-334.3	Last MWD Survey (MD=13911.0')
14,110.0	9,328.2	-4,922.5	-333.5	Projection to Bit (MD=14110.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 12/28/2020

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

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. 30-025-46383
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 PO BOX 2267 MIDLAND, TX 79702		7. Lease Name or Unit Agreement Name GEM 36 STATE COM
4. Well Location Unit Letter <u>C</u> : <u>248'</u> feet from the <u>NORTH</u> line and <u>1949'</u> feet from the <u>WEST</u> line Section <u>36</u> Township <u>25S</u> Range <u>32E</u> NMPM County <u>LEA</u>		8. Well Number 103H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3400' GR		9. OGRID Number 7377
		10. Pool name or Wildcat JENNINGS; UPPER BONE SPRNG SHALE

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: ☐		OTHER: <u>Completion</u> ☒	

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.

11/24/2019 RIG RELEASED
 11/28/2019 MIRU PREP TO FRAC, TEST VOID TO 5000 PSI, SEALS & FLANGES TO 8500 PSI
 09/22/2020 BEGIN PERF AND FRAC
 09/27/2020 FINISH 16 STAGES PERF & FRAC, 9441 - 14,071' 960 3 1/8" SHOTS, FRAC 11,340,030 PROPPANT, 219,194 BBLS LOAD FLUID
 10/10/2020 DRILLED OUT PLUGS AND CLEANED OUT WELLBORE
 11/21/2020 OPENED WELL TO FLOWBACK - DATE OF FIRST PRODUCTION

WILL RUN TBG AND GAS LIFT VALVES WITHIN 3-6 MONTHS, WILL SUBMIT SUNDRY

Spud Date:

10/07/2019

Rig Release Date:

11/24/2019

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

SIGNATURE KAY MADDOX TITLE Regulatory Analyst DATE 12/19/2020

Type or print name Kay Maddox E-mail address: kay_maddox@eogresources.com PHONE: 432-638-8475

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 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-105 Revised August 1, 2011					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								5. Lease Name or Unit Agreement Name GEM 36 STATE COM		
								6. Well Number: 103H		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator EOG RESOURCES INC							9. OGRID 7377			
10. Address of Operator PO BOX 2267 MIDLAND, TEXAS 79702							11. Pool name or Wildcat JENNINGS; UPPER BONE SPRING SHALE			
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	C	36	25S	32E		248'	NORTH	1949'	WEST	LEA
BH:	N	36	25S	32E		110'	SOUTH	1660'	WEST	LEA
13. Date Spudded 10/07/2019	14. Date T.D. Reached 11/23/2019		15. Date Rig Released 11/24/2019			16. Date Completed (Ready to Produce) 11/21/2020		17. Elevations (DF and RKB, RT, GR, etc.) 3400' GR		
18. Total Measured Depth of Well MD 14,110' TVD 9,328'			19. Plug Back Measured Depth MD 14,071' TVD 9328'			20. Was Directional Survey Made? YES		21. Type Electric and Other Logs Run None		
22. Producing Interval(s), of this completion - Top, Bottom, Name UPPER BONE SPRING SHALE 9441 - 14,071'										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8"		54.5# J-55		895'		17 1/2"		780 SXS CL C/CIRC		
9 5/8"		40# J-55		4,735'		12 1/4'		1465 SXS CL C/CIRC		
5 1/2"		20# ICYP 110		14,110'		8 3/4'		1517 SXS CL/H TOC @ 2410' CBL		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD				
						SIZE		DEPTH SET		PACKER SET
26. Perforation record (interval, size, and number) 9,441 - 14,071' 3 1/8" 960 holes										
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.										
DEPTH INTERVAL					AMOUNT AND KIND MATERIAL USED					
9,441 - 14,071'					Frac w/ 11,340,030 lbs proppant; 219,194 bbls load fld					
28. PRODUCTION										
Date First Production 11/21/2020		Production Method (Flowing, gas lift, pumping - Size and type pump) FLOWING				Well Status (Prod. or Shut-in) PRODUCING				
Date of Test 11/25/2020	Hours Tested 24	Choke Size 84	Prod'n For Test Period	Oil - Bbl 1933	Gas - MCF 4835	Water - Bbl. 3360	Gas - Oil Ratio 2502			
Flow Tubing Press.	Casing Pressure 752	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.) 47				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD								30. Test Witnessed By		
31. List Attachments C-102, C-103, C-104, Directional Survey, As-Completed plat										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude _____ Longitude _____ NAD 1927 1983										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature Kay Maddox			Name Kay Maddox			Title Regulatory Analyst		Date 12/19/2020		
E-mail Address kay_maddox@eogresources.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy <u>RUSTLER 747'</u>	T. Canyon <u>BRUSHY 7,444'</u>	T. Ojo Alamo	T. Penn A "
T. Salt <u>1081'</u>	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt <u>4573'</u>	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T. Todilto	
T. Abo	T. <u>BONE SPRING SHALE 9,037'</u>	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 12747

CONDITIONS OF APPROVAL

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	12747	Action Type:	C-104C
OCD Reviewer									Condition
plmartinez									None