

RECEIVED

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

NOV 08 2019

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☒ AMENDED REPORTAs-Completed &
As-drilled PLAT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45788	² Pool Code 97814	³ Pool Name WILDCAT G-015 S2630010; BONE SPRING
⁴ Property Code 325170	⁵ Property Name QUAIL 2 STATE	⁶ Well Number 594H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3215'

¹⁰Surface Location

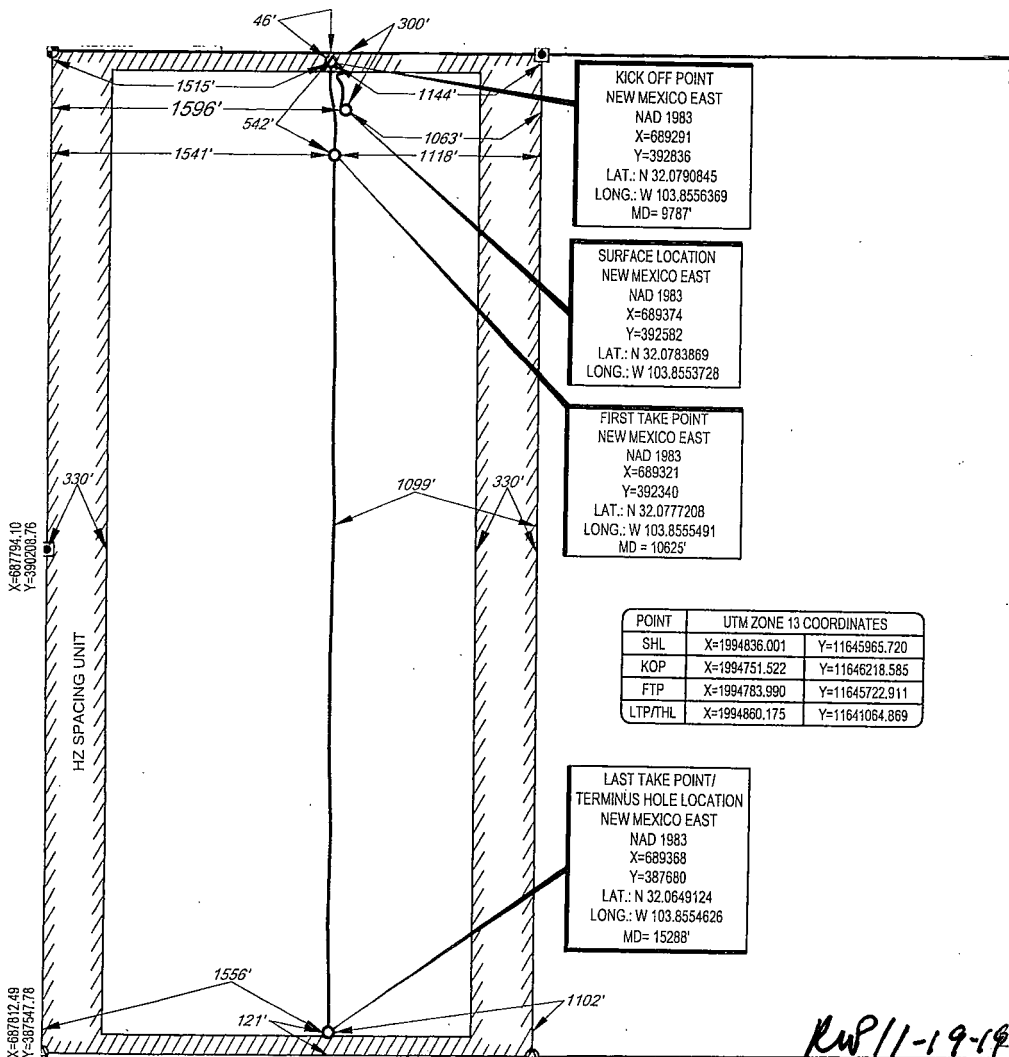
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	2	26-S	30-E	-	300'	NORTH	1596'	WEST	EDDY

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	2	26-S	30-E	-	121'	SOUTH	1556'	WEST	EDDY

¹² Dedicated Acres 320.00	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 10/15/2019
Signature Date

KAY MADDOX

Printed Name

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.

03/27/2019
Date of Survey
Signature and Seal of Professional Surveyor



Certificate Number

RECEIVED

NOV 08 2019

DISTRICT/ARTESIAO.C.D.

Intent ☐ As Drilled ☒ XXX

API # 30-015-45788		
Operator Name: EOG RESOURCES, INC	Property Name: QUAIL 2 STATE	Well Number 594H

Kick Off Point (KOP)

UL C	Section 2	Township 26S	Range 30E	Lot	Feet 46	From N/S NORTH	Feet 1515	From E/W WEST	County LEA
Latitude 32.070845					Longitude 103.8556369			NAD 1983	

First Take Point (FTP)

UL C	Section 2	Township 26S	Range 30E	Lot	Feet 542	From N/S NORTH	Feet 1541	From E/W WEST	County LEA
Latitude 32.0777208					Longitude 103.8555491			NAD 1983	

Last Take Point (LTP)

UL N	Section 2	Township 26S	Range 30E	Lot	Feet 121	From N/S SOUTH	Feet 1556	From E/W WEST	County LEA
Latitude 32.0649124					Longitude 103.8554626			NAD 1983	

Is this well the defining well for the Horizontal Spacing Unit?

☒ YES

Is this well an infill well?

☐ NO

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

API #		
Operator Name: EOG RESOURCES, INC	Property Name:	Well Number

KZ 06/29/2018



EOG Resources - Midland

Eddy County, NM (NAD 83 NME)

Quail 2 State

#594H

OH

Design: OH

Midland PVA

27 May, 2019



Midland PVA

Company:	EOG Resources - Midland			Local Co-ordinate Reference:	Well #594H
Project:	Eddy County, NM (NAD 83 NME)			TVD Reference:	KB = 25' @ 3240.0usft
Site:	Quail 2 State			MD Reference:	KB = 25' @ 3240.0usft
Well:	#594H			North Reference:	Grid
Wellbore:	OH			Survey Calculation Method:	Minimum Curvature
Design:	OH			Database:	EDM 5000.14

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:		Northing:	392,582.00 usft	Latitude:	32° 4' 42.190 N
From:	Map	Easting:	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:	#594H					
Well Position	+N-S	0.0 usft	Northing:	392,582.00 usft	Latitude:	32° 4' 42.190 N
	+E-W	0.0 usft	Easting:	689,374.00 usft	Longitude:	103° 51' 19.344 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,215.0 usft	

Wellbore:	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	3/5/2019	6.89	59.86	47,647.26507391

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	180.26	

Survey Program	Date 5/27/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
133.0	15,288.0	Total MWD (OH)	MWD	OWSG MWD - Standard



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #594H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3240.0usft
Site:	Quail 2 State	MD Reference:	KB = 25' @ 3240.0usft
Well:	#594H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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
133.0	0.00	0.00	133.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
245.0	0.70	268.70	245.0	0.0	-0.7	0.62	0.62	0.00	-0.7	0.0
331.0	0.90	284.00	331.0	0.1	-1.9	0.34	0.23	17.79	-1.8	0.3
507.0	0.80	288.00	507.0	0.9	-4.4	0.07	-0.06	2.27	-4.4	0.5
694.0	2.40	291.80	693.9	2.7	-9.3	0.86	0.86	1.93	-9.6	0.9
880.0	2.50	288.00	879.7	5.4	-16.7	0.10	0.05	-1.94	-17.6	0.1
1,067.0	3.00	330.40	1,066.5	10.9	-23.0	1.09	0.27	22.67	-20.8	14.7
1,161.0	4.10	358.40	1,160.3	16.4	-24.3	2.15	1.17	29.79	-17.0	23.9
1,220.0	4.28	5.31	1,219.2	20.7	-24.2	0.91	0.31	11.71	-18.3	26.0
1,253.0	4.40	8.90	1,252.1	23.2	-23.9	0.90	0.36	10.88	-19.2	27.2
1,347.0	4.20	14.90	1,345.8	30.1	-22.4	0.52	-0.21	6.38	-21.9	28.7
1,440.0	3.90	16.80	1,438.6	36.4	-20.7	0.35	-0.32	2.04	-23.4	27.1
1,533.0	4.50	17.60	1,531.3	42.9	-18.6	0.65	0.65	0.86	-23.4	23.7
1,724.0	5.30	10.70	1,721.7	58.7	-14.7	0.52	0.42	-3.61	-27.1	13.2
1,914.0	6.40	357.70	1,910.7	77.9	-13.5	0.90	0.58	-6.84	-32.2	1.8
2,009.0	6.10	356.80	2,005.1	88.2	-14.0	0.33	-0.32	-0.95	-34.4	-0.2
2,104.0	5.50	357.70	2,099.6	97.8	-14.5	0.64	-0.63	0.95	-35.9	-1.1
2,199.0	5.20	0.60	2,194.2	106.7	-14.6	0.43	-0.32	3.05	-36.7	-1.0
2,294.0	5.40	351.70	2,288.8	115.4	-15.2	0.89	0.21	-9.37	-36.5	-8.0
2,390.0	6.20	339.00	2,384.3	124.7	-17.7	1.57	0.83	-13.23	-35.2	-15.6
2,485.0	5.90	335.30	2,478.8	133.9	-21.6	0.52	-0.32	-3.89	-36.1	-16.4
2,580.0	5.70	332.10	2,573.3	142.5	-25.9	0.40	-0.21	-3.37	-36.7	-16.5
2,675.0	5.10	327.10	2,667.9	150.3	-30.4	0.80	-0.63	-5.26	-36.3	-17.2
2,771.0	4.80	320.30	2,763.5	156.9	-35.2	0.69	-0.31	-7.08	-34.8	-18.1
2,865.0	4.10	325.90	2,857.2	162.7	-39.6	0.88	-0.74	5.96	-36.0	-11.3
2,960.0	3.40	339.00	2,952.0	168.2	-42.6	1.16	-0.74	13.79	-35.5	-0.9



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #594H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3240.0usft
Site:	Quail 2 State	MD Reference:	KB = 25' @ 3240.0usft
Well:	#594H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Buld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
3,055.0	3.00	338.70	3,046.9	173.1	-44.5	0.42	-0.42	-0.32	-32.6	0.1
3,244.0	1.10	16.10	3,235.8	179.5	-45.8	1.18	-1.01	19.79	-17.2	14.9
3,338.0	1.90	33.50	3,329.7	181.6	-44.7	0.97	0.85	18.51	-8.7	13.7
3,433.0	2.50	39.00	3,424.7	184.6	-42.5	0.67	0.63	5.79	-5.9	8.1
3,622.0	2.80	84.30	3,613.5	188.2	-35.3	1.09	0.16	23.97	-7.9	-3.6
3,695.0	2.60	89.70	3,686.4	188.4	-31.9	0.44	-0.27	7.40	-13.0	-8.8
3,706.0	2.59	89.53	3,697.4	188.4	-31.4	0.11	-0.09	-1.55	-13.7	-9.8
3,789.0	2.50	88.20	3,780.3	188.5	-27.7	0.13	-0.11	-1.60	-18.6	-17.3
3,883.0	2.60	61.60	3,874.2	189.6	-23.8	1.25	0.11	-28.30	-10.6	-32.6
3,978.0	4.00	39.20	3,969.1	193.2	-19.8	1.98	1.47	-23.58	2.5	-41.5
4,072.0	4.60	4.30	4,062.8	199.5	-17.4	2.81	0.64	-37.13	27.1	-37.0
4,167.0	6.60	348.40	4,157.4	208.6	-18.2	2.65	2.11	-16.74	35.3	-29.4
4,262.0	6.60	336.40	4,251.7	219.0	-21.5	1.45	0.00	-12.83	37.1	-21.2
4,356.0	2.40	306.10	4,345.4	225.1	-25.3	4.99	-4.47	-32.23	39.4	0.6
4,451.0	0.90	201.30	4,440.4	225.6	-27.1	2.92	-1.58	-110.32	-11.9	36.7
4,546.0	0.90	205.30	4,535.4	224.2	-27.7	0.07	0.00	4.21	-10.8	37.5
4,640.0	0.80	214.30	4,629.4	223.0	-28.4	0.18	-0.11	9.57	-6.2	38.8
4,734.0	0.80	296.10	4,723.4	222.7	-29.4	1.11	0.00	87.02	36.8	12.3
4,828.0	1.70	330.90	4,817.3	224.2	-30.6	1.21	0.96	37.02	35.3	-10.5
4,923.0	1.50	324.90	4,912.3	226.5	-32.0	0.27	-0.21	-6.32	33.6	-6.9
5,018.0	1.50	324.10	5,007.3	228.5	-33.5	0.02	0.00	-0.84	31.2	-6.4
5,113.0	1.40	325.20	5,102.2	230.5	-34.9	0.11	-0.11	1.16	28.7	-7.0
5,207.0	1.50	323.90	5,196.2	232.4	-36.3	0.11	0.11	-1.38	26.4	-6.4
5,302.0	1.40	322.00	5,291.2	234.3	-37.7	0.12	-0.11	-2.00	24.2	-5.6
5,397.0	1.60	317.00	5,386.2	236.2	-39.3	0.25	0.21	-5.26	22.1	-3.5
5,491.0	1.40	312.50	5,480.1	237.9	-41.1	0.25	-0.21	-4.79	19.9	-1.9
5,586.0	1.30	310.50	5,575.1	239.4	-42.7	0.12	-0.11	-2.11	17.7	-1.2



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #594H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3240.0usft
Site:	Quail 2 State	MD Reference:	KB = 25' @ 3240.0usft
Well:	#594H	North Reference:	Gnd
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
5,681.0	1.20	303.30	5,670.1	240.7	-44.4	0.20	-0.11	-7.58	15.7	0.9
5,775.0	1.20	303.50	5,764.1	241.8	-46.0	0.00	0.00	0.21	13.7	0.8
5,870.0	0.60	304.00	5,859.0	242.6	-47.3	0.63	-0.63	0.53	12.2	0.7
5,964.0	0.40	355.40	5,953.0	243.2	-47.7	0.50	-0.21	54.68	7.5	-8.7
6,058.0	0.30	31.80	6,047.0	243.7	-47.6	0.25	-0.11	38.72	0.4	-11.3
6,152.0	0.30	128.00	6,141.0	243.8	-47.3	0.48	0.00	102.34	-11.5	1.1
6,247.0	0.30	134.30	6,236.0	243.4	-46.9	0.03	0.00	6.63	-11.8	2.4
6,341.0	0.50	153.80	6,330.0	242.9	-46.6	0.25	0.21	20.74	-11.0	6.2
6,435.0	0.90	144.30	6,424.0	241.9	-45.9	0.44	0.43	-10.11	-13.0	4.3
6,530.0	0.90	158.30	6,519.0	240.6	-45.2	0.23	0.00	14.74	-13.0	7.5
6,719.0	0.70	179.90	6,708.0	238.1	-44.7	0.19	-0.11	11.43	-11.9	12.3
6,814.0	0.50	175.60	6,803.0	237.1	-44.6	0.22	-0.21	-4.53	-13.8	11.3
6,908.0	0.70	176.90	6,897.0	236.1	-44.6	0.21	0.21	1.38	-14.5	11.7
7,003.0	0.90	188.20	6,992.0	234.8	-44.7	0.27	0.21	11.89	-13.3	14.4
7,097.0	1.00	191.80	7,086.0	233.3	-44.9	0.12	0.11	3.83	-13.9	15.2
7,192.0	1.10	187.90	7,180.9	231.6	-45.2	0.13	0.11	-4.11	-16.6	14.2
7,286.0	1.20	195.50	7,274.9	229.7	-45.6	0.19	0.11	8.09	-16.5	16.4
7,382.0	1.20	193.70	7,370.9	227.8	-46.1	0.04	0.00	-1.87	-19.0	15.8
7,477.0	1.30	181.60	7,465.9	225.7	-46.4	0.30	0.11	-12.74	-24.0	11.3
7,572.0	1.40	181.60	7,560.9	223.5	-46.4	0.11	0.11	0.00	-26.2	11.3
7,666.0	1.50	191.70	7,654.8	221.1	-46.7	0.29	0.11	10.74	-26.2	15.9
7,761.0	1.20	192.20	7,749.8	219.0	-47.2	0.32	-0.32	0.53	-28.3	16.2
7,856.0	1.20	244.60	7,844.8	217.6	-48.3	1.12	0.00	55.16	-6.1	33.0
7,951.0	1.30	261.00	7,939.8	217.0	-50.3	0.39	0.11	17.26	1.5	33.7
8,045.0	1.30	321.60	8,033.7	217.6	-52.0	1.40	0.00	64.47	28.5	16.2
8,140.0	0.60	355.60	8,128.7	219.0	-52.7	0.92	-0.74	35.79	31.3	-1.9
8,234.0	1.10	346.20	8,222.7	220.3	-52.9	0.55	0.53	-10.00	29.8	3.1



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #594H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3240.0usft
Site:	Quail 2 State	MD Reference:	KB = 25' @ 3240.0usft
Well:	#594H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
8,328.0	0.70	31.20	8,316.7	221.7	-52.9	0.83	-0.43	47.87	22.1	-18.2
8,423.0	0.60	69.50	8,411.7	222.4	-52.1	0.46	-0.11	40.32	5.1	-27.6
8,518.0	1.10	313.30	8,506.7	223.2	-52.3	1.54	0.53	-122.32	21.8	16.3
8,612.0	2.20	322.90	8,600.7	225.2	-54.0	1.20	1.17	10.21	21.5	12.6
8,706.0	2.40	320.60	8,694.6	228.2	-56.4	0.23	0.21	-2.45	17.2	13.4
8,800.0	1.80	309.20	8,788.5	230.6	-58.8	0.77	-0.64	-12.13	10.9	16.1
8,894.0	0.80	281.10	8,882.5	231.7	-60.6	1.23	-1.06	-29.89	0.0	18.6
8,989.0	1.80	328.60	8,977.5	233.1	-62.0	1.46	1.05	50.00	11.8	13.1
9,084.0	1.70	324.50	9,072.4	235.5	-63.6	0.17	-0.11	-4.32	8.0	13.8
9,178.0	2.20	310.00	9,166.4	237.8	-65.8	0.74	0.53	-15.43	1.1	15.0
9,273.0	2.80	299.30	9,261.3	240.1	-69.2	0.80	0.63	-11.26	-5.8	14.6
9,368.0	2.90	303.30	9,356.2	242.6	-73.2	0.23	0.11	4.21	-9.5	15.1
9,462.0	2.80	317.50	9,450.0	245.6	-76.8	0.76	-0.11	15.11	-10.1	17.6
9,557.0	1.80	326.60	9,545.0	248.5	-79.1	1.12	-1.05	9.58	-11.0	19.3
9,652.0	1.60	327.20	9,639.9	250.9	-80.7	0.21	-0.21	0.63	-13.6	19.4
9,715.0	1.80	325.40	9,702.9	252.5	-81.7	0.33	0.32	-2.86	-16.1	19.0
9,785.0	0.90	276.80	9,772.9	253.4	-82.9	1.97	-1.29	-69.43	-26.1	-0.3
9,787.0	0.85	261.13	9,774.9	253.4	-82.9	12.18	-2.50	-783.50	-25.1	-7.4
9,832.0	5.50	177.10	9,819.8	251.2	-83.1	12.17	10.33	-186.73	3.5	-26.0
9,879.0	11.20	176.60	9,866.3	244.4	-82.8	12.13	12.13	-1.06	1.5	-25.8
9,926.0	14.80	174.40	9,912.1	233.9	-81.9	7.73	7.66	-4.68	0.2	-25.1
9,973.0	20.10	176.20	9,956.9	219.8	-80.8	11.33	11.28	3.83	-2.5	-24.2
10,020.0	22.00	184.50	10,000.8	203.0	-80.9	7.51	4.04	17.66	-6.8	-23.8
10,067.0	22.80	184.60	10,044.2	185.1	-82.4	1.70	1.70	0.21	-5.1	-25.5
10,114.0	28.50	183.80	10,086.6	164.9	-83.8	12.15	12.13	-1.70	-1.8	-27.4
10,162.0	33.60	178.40	10,127.7	140.1	-84.2	12.10	10.62	-11.25	2.9	-27.9
10,209.0	36.90	170.70	10,166.1	113.2	-81.6	11.77	7.02	-16.38	8.6	-24.6



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #594H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3240.0usft
Site:	Quail 2 State	MD Reference:	KB = 25' @ 3240.0usft
Well:	#594H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Buile (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
10,256.0	43.60	168.80	10,201.9	83.3	-76.1	14.49	14.26	-4.04	11.0	-18.9
10,303.0	51.10	168.30	10,233.8	49.5	-69.3	15.98	15.96	-1.06	10.9	-12.3
10,350.0	57.40	168.40	10,261.2	12.1	-61.6	13.41	13.40	0.21	8.9	-5.2
10,397.0	61.60	172.40	10,285.1	-27.8	-54.9	11.56	8.94	8.51	6.5	0.7
10,444.0	66.00	177.00	10,305.8	-69.7	-51.0	12.83	9.36	9.79	4.8	3.9
10,491.0	69.10	182.10	10,323.8	-113.2	-50.7	12.00	6.60	10.85	4.0	3.8
10,538.0	73.10	182.10	10,339.0	-157.6	-52.3	8.51	8.51	0.00	3.9	1.9
10,585.0	76.70	180.30	10,351.2	-202.9	-53.3	8.51	7.66	-3.83	4.5	0.7
10,632.0	80.00	180.50	10,360.7	-249.0	-53.6	7.03	7.02	0.43	6.1	0.0
10,677.0	82.40	181.00	10,367.6	-293.4	-54.2	5.45	5.33	1.11	9.0	-0.9
10,727.0	85.60	180.50	10,372.8	-343.1	-54.8	6.48	6.40	-1.00	13.6	-1.8
10,805.0	87.09	179.84	10,377.8	-421.0	-55.0	2.09	1.91	-0.85	19.2	-2.6
10,821.0	87.40	179.70	10,378.6	-437.0	-55.0	2.13	1.94	-0.87	20.1	-2.6
10,916.0	89.20	179.30	10,381.4	-531.9	-54.1	1.94	1.89	-0.42	23.6	-2.4
11,010.0	90.80	178.20	10,381.4	-625.9	-52.1	2.07	1.70	-1.17	24.3	-1.0
11,105.0	91.00	177.20	10,379.9	-720.8	-48.3	1.07	0.21	-1.05	23.5	2.1
11,199.0	90.90	176.70	10,378.3	-814.7	-43.3	0.54	-0.11	-0.53	22.7	6.5
11,294.0	90.20	178.10	10,377.4	-909.6	-39.0	1.65	-0.74	1.47	22.5	10.2
11,389.0	90.30	178.70	10,377.0	-1,004.5	-36.3	0.64	0.11	0.63	22.8	12.2
11,484.0	91.30	179.10	10,375.7	-1,099.5	-34.5	1.13	1.05	0.42	22.1	13.4
11,579.0	92.80	179.20	10,372.3	-1,194.4	-33.1	1.58	1.58	0.11	19.4	14.1
11,672.0	92.70	179.60	10,367.8	-1,287.3	-32.1	0.44	-0.11	0.43	15.7	14.5
11,767.0	91.10	180.50	10,364.7	-1,382.2	-32.2	1.93	-1.68	0.95	13.2	13.7
11,861.0	90.50	180.30	10,363.4	-1,476.2	-32.9	0.67	-0.64	-0.21	12.6	12.4
11,956.0	91.20	180.50	10,362.0	-1,571.2	-33.5	0.77	0.74	0.21	11.9	11.1
12,050.0	90.10	179.50	10,360.9	-1,665.2	-33.5	1.58	-1.17	-1.06	11.6	10.5
12,144.0	89.00	178.80	10,361.6	-1,759.2	-32.1	1.39	-1.17	-0.74	13.0	11.3



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #594H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3240.0usft
Site:	Quail 2 State	MD Reference:	KB = 25' @ 3240.0usft
Well:	#594H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,239.0	89.50	178.00	10,362.9	-1,854.1	-29.5	0.99	0.53	-0.84	15.0	13.3
12,334.0	91.30	178.20	10,362.2	-1,949.1	-26.3	1.91	1.89	0.21	15.0	15.8
12,428.0	91.50	177.80	10,359.9	-2,043.0	-23.0	0.48	0.21	-0.43	13.4	18.4
12,523.0	91.10	179.20	10,357.8	-2,137.9	-20.6	1.53	-0.42	1.47	12.0	20.3
12,617.0	88.60	181.60	10,358.0	-2,231.9	-21.2	3.69	-2.66	2.55	13.0	19.0
12,711.0	88.80	181.70	10,360.1	-2,325.9	-23.9	0.24	0.21	0.11	16.0	15.6
12,806.0	88.40	180.30	10,362.5	-2,420.8	-25.6	1.53	-0.42	-1.47	19.3	13.3
12,901.0	89.60	180.10	10,364.1	-2,515.8	-25.9	1.28	1.26	-0.21	22.0	12.3
12,996.0	90.10	180.30	10,364.4	-2,610.8	-26.2	0.57	0.53	0.21	23.2	11.4
13,090.0	91.60	181.20	10,363.0	-2,704.8	-27.5	1.86	1.60	0.96	22.8	9.5
13,185.0	89.70	180.20	10,361.9	-2,799.8	-28.6	2.26	-2.00	-1.05	22.7	7.7
13,279.0	91.40	182.50	10,361.0	-2,893.7	-30.8	3.04	1.81	2.45	22.8	4.9
13,374.0	88.90	179.50	10,360.7	-2,988.7	-32.5	4.11	-2.63	-3.16	23.5	2.5
13,468.0	88.30	179.10	10,363.0	-3,082.6	-31.4	0.77	-0.64	-0.43	26.8	3.1
13,562.0	90.90	179.80	10,363.7	-3,176.6	-30.4	2.86	2.77	0.74	28.4	3.3
13,656.0	91.30	180.00	10,361.9	-3,270.6	-30.3	0.48	0.43	0.21	27.6	2.9
13,751.0	91.20	179.10	10,359.8	-3,365.6	-29.5	0.95	-0.11	-0.95	26.6	2.9
13,845.0	90.90	177.70	10,358.1	-3,459.5	-26.9	1.52	-0.32	-1.49	25.9	4.9
13,939.0	91.40	178.10	10,356.2	-3,553.5	-23.5	0.68	0.53	0.43	25.1	7.7
14,034.0	90.90	177.90	10,354.3	-3,648.4	-20.2	0.57	-0.53	-0.21	24.2	10.4
14,129.0	90.60	177.50	10,353.1	-3,743.3	-16.3	0.53	-0.32	-0.42	24.0	13.6
14,223.0	91.10	179.70	10,351.7	-3,837.2	-14.0	2.40	0.53	2.34	23.6	15.2
14,317.0	93.30	180.70	10,348.1	-3,931.2	-14.4	2.57	2.34	1.06	21.0	14.3
14,412.0	94.50	181.30	10,341.6	-4,025.9	-16.0	1.41	1.26	0.63	15.6	12.0
14,506.0	92.30	181.40	10,336.0	-4,119.7	-18.2	2.34	-2.34	0.11	11.1	9.1
14,601.0	92.00	180.40	10,332.5	-4,214.7	-19.7	1.10	-0.32	-1.05	8.5	7.0
14,695.0	92.00	179.30	10,329.2	-4,308.6	-19.5	1.17	0.00	-1.17	6.1	6.6



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #594H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB = 25' @ 3240.0usft
Site:	Quail 2 State	MD Reference:	KB = 25' @ 3240.0usft
Well:	#594H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
14,790.0	88.30	178.00	10,328.9	-4,403.6	-17.2	4.13	-3.89	-1.37	6.8	8.2
14,885.0	88.90	177.70	10,331.2	-4,498.5	-13.7	0.71	0.63	-0.32	10.1	11.1
14,979.0	89.90	178.60	10,332.2	-4,592.4	-10.6	1.43	1.06	0.96	12.0	13.5
15,073.0	91.00	179.10	10,331.5	-4,686.4	-8.8	1.29	1.17	0.53	12.2	14.8
15,168.0	91.80	179.40	10,329.2	-4,781.3	-7.5	0.90	0.84	0.32	10.9	15.4
15,242.0	92.20	179.30	10,326.6	-4,855.3	-6.7	0.56	0.54	-0.14	9.0	15.7
15,288.0	92.20	179.30	10,324.8	-4,901.2	-6.1	0.00	0.00	0.00	7.7	16.0

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,787.0	9,774.9	253.4	-82.9	KOP, MD:9787.0', TVD:9774.9', N/S:253.4', E/W:-82.9', INC:0.85
10,028.0	10,008.2	200.0	-81.2	FTP Crossing, MD:10028.0', TVD:10008.2', N/S:200.0', E/W:-81.2', INC:22.14
15,242.0	10,326.6	-4,855.3	-6.7	Last MWD Survey (MD=15242.0')
15,288.0	10,324.8	-4,901.2	-6.1	Projection to Bit (MD=15288.0')

Checked By: _____	Approved By: _____	Date: _____
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I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddal
Signed

11/7/2019
Date



Eddy County, NM (NAD 83 NME)

Quail 2 State #594H

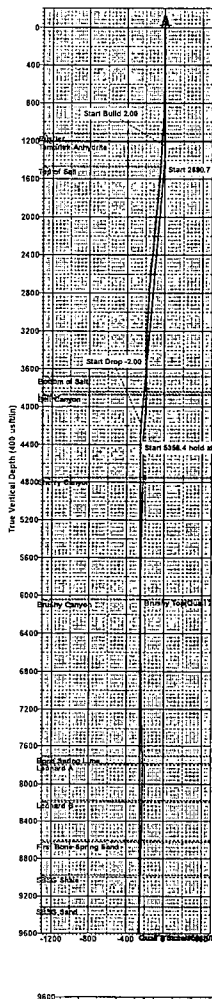
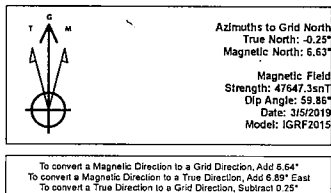
Plan #2

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: #594H

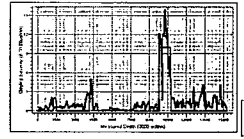
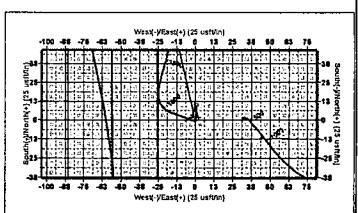
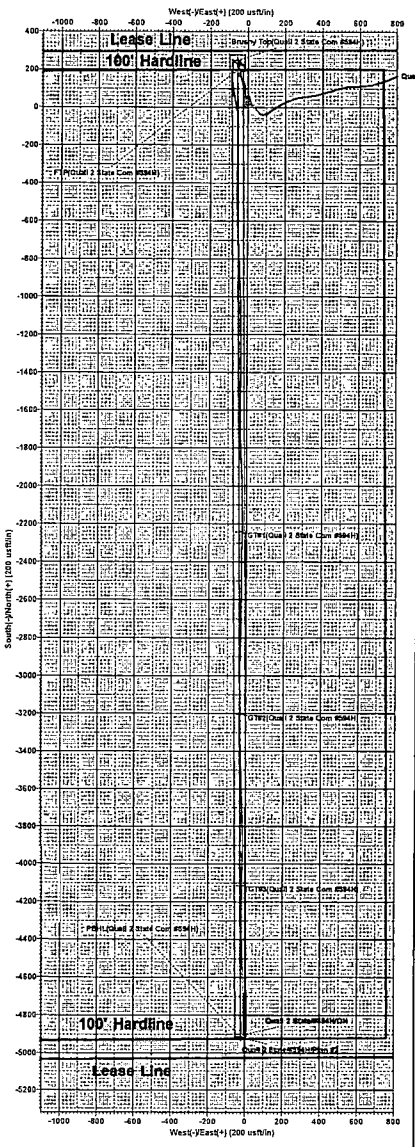
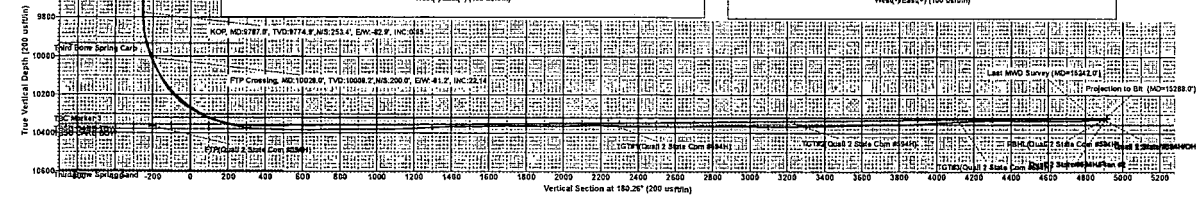
KB = 25' @ 3240.0usft 3215.0
Northing 392582.00 Easting 689374.00 Latitude 32° 4' 42.190 N Longitude 103° 51' 19.344 W



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	Target
0	0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.0	
1	1250.0	0.00	0.00	1250.0	0.0	0.0	0.00	0.00	0.0	
2	1500.1	5.00	347.16	1499.8	10.6	-2.4	2.00	347.16	-10.6	
3	4190.8	5.00	347.16	4180.2	239.4	-54.6	0.00	0.00	-239.1	
4	4440.9	0.00	0.00	4430.0	250.0	-57.0	2.00	180.00	-249.7	
5	9797.3	0.00	0.00	9786.4	250.0	-57.0	0.00	0.00	-249.7	
6	10701.6	90.43	179.61	10359.3	-327.2	-53.1	10.00	179.61	327.5	TGT#1(Quail 2 State Com #594H)
7	12615.2	90.43	179.61	10345.0	-2240.8	-40.1	0.00	0.00	2241.0	
8	12623.6	90.60	179.61	10344.9	-2249.1	-40.1	2.00	0.00	2249.3	TGT#2(Quail 2 State Com #594H)
9	13577.4	90.60	179.61	10335.0	-3202.9	-33.6	0.00	0.00	3203.0	
10	13579.1	90.63	179.61	10335.0	-3204.6	-33.6	2.00	0.00	3204.7	TGT#3(Quail 2 State Com #594H)
11	14487.5	90.63	179.61	10325.0	-4112.9	-27.4	0.00	0.00	4113.0	
12	14490.3	90.57	179.61	10325.0	-4115.7	-27.4	2.00	180.00	4115.8	
13	15287.6	90.57	179.61	10317.0	-4913.0	-22.0	0.00	0.00	4913.0	PBHL(Quail 2 State Com #594H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N-S	+E-W	Northing	Easting	
TGT#1(Quail 2 State Com #594H)	10345.0	-2240.8	-40.1	390541.20	689333.89	
TGT#2(Quail 2 State Com #594H)	10335.0	-3202.9	-33.6	389378.10	689340.41	
TGT#3(Quail 2 State Com #594H)	10325.0	-4112.9	-27.4	388469.10	689346.58	
PBHL(Quail 2 State Com #594H)	10317.0	-4913.0	-22.0	387669.00	689352.00	
Brushy Top(Quail 2 State Com #594H)	6040.0	250.0	-57.0	392832.00	689317.00	
FTP(Quail 2 State Com #594H)	10362.0	200.0	-57.0	392782.00	689317.00	



Scale: 1 inch = 100 feet
Date: 11/18/2019
Page: 2 of 2