

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

<sup>1</sup> API Number 30-025-47178		<sup>2</sup> Pool Code 98180		<sup>3</sup> Pool Name WC025 G09 S253309P; UPPER WOLFCAMP	
<sup>4</sup> Property Code 328239		<sup>5</sup> Property Name GREEN DRAKE 21 FED COM			<sup>6</sup> Well Number 708H
<sup>7</sup> OGRID No. 7377		<sup>8</sup> Operator Name EOG RESOURCES, INC.			<sup>9</sup> Elevation 3368'

<sup>10</sup>Surface Location

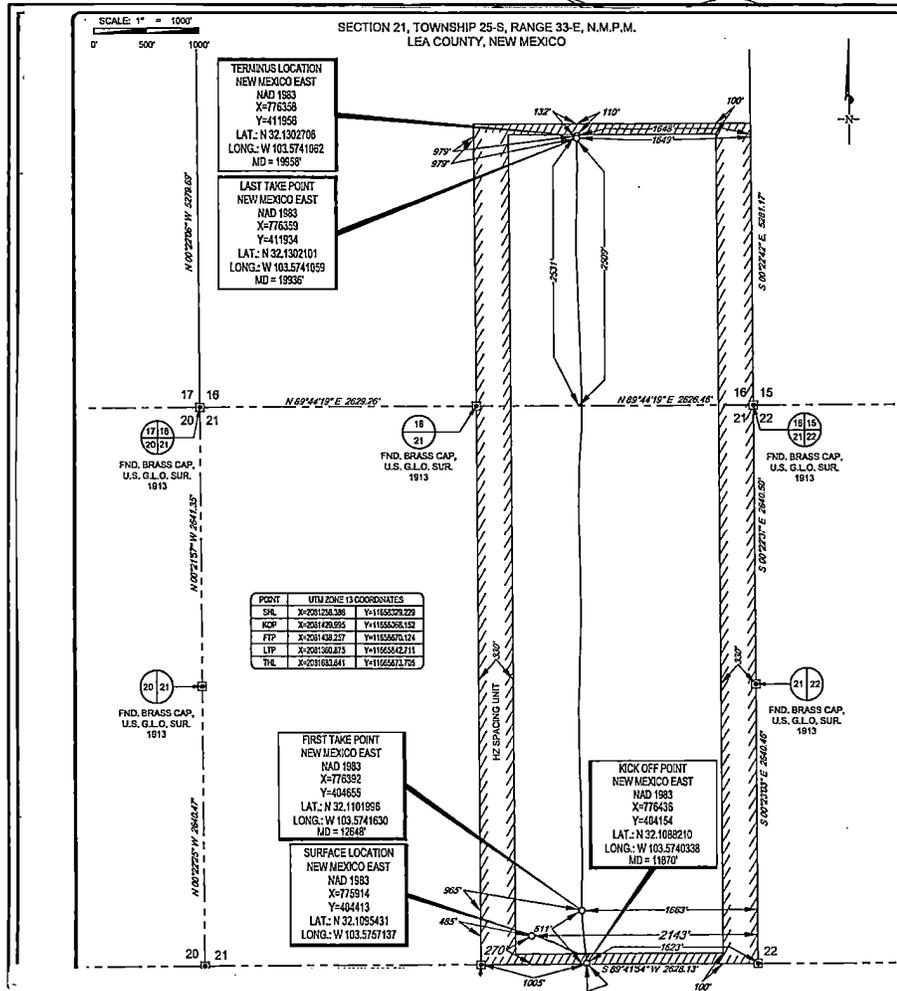
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	21	25-S	33-E	-	270'	SOUTH	2143'	EAST	LEA

<sup>11</sup>Bottom 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
J	16	25-S	33-E	-	2531'	SOUTH	1648'	EAST	LEA

<sup>12</sup> Dedicated Acres 480.00	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

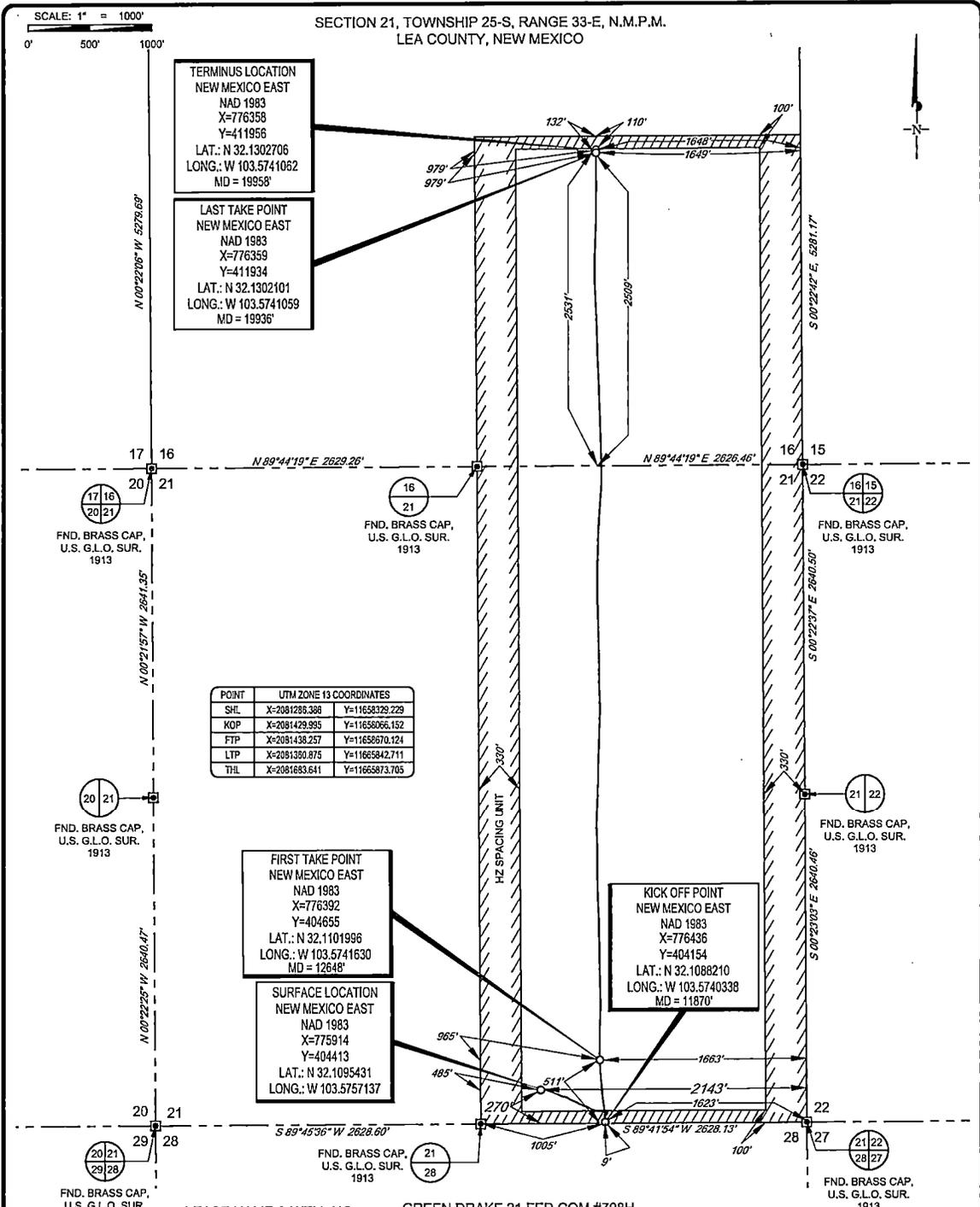


<sup>17</sup>OPERATOR CERTIFICATION  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has 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.

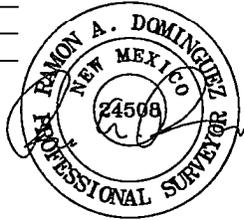
Signature: *Kay Maddox* Date: 11/11/2020  
Printed Name: KAY MADDOX  
E-mail Address: kay\_maddox@eogresources.com

<sup>18</sup>SURVEYOR 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.

Date of Survey: 04/20/2020  
Signature and Seal of Professional Surveyor: *RANDY A. DOMINGUEZ*  
Certificate Number: 24508



LEASE NAME & WELL NO.: GREEN DRAKE 21 FED COM #708H  
 SECTION 21 TWP 25-S RGE 33-E SURVEY N.M.P.M.  
 COUNTY LEA STATE NM ELEVATION 3371'  
 DESCRIPTION 270' FSL & 2143' FEL



**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY  
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 744-7512 • FAX: (817) 744-7554  
TEXAS FIRM REGISTRATION NO. 10042504  
WWW.TOPOGRAPHIC.COM

Ramon A. Dominguez, P.S. No. 24508  
OCTOBER 19, 2020



GREEN DRAKE 21 FED COM #708H AS-COMPLETED	REVISION:
DATE: 10/19/2020	
FILE: AD_GREEN_DRAKE_16_FED_COM_708H	
DRAWN BY: A.V.F.	
SHEET: 1 OF 1	

NOTES:  
 1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"  
 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.

Intent  As Drilled  XXX

API #  
30-025-47178

Operator Name: EOG RESOURCES, INC	Property Name: GREEN DRAKE 21 FEDERAL COM	Well Number 708H
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Kick Off Point (KOP)

UL O	Section 21	Township 25S	Range 33E	Lot	Feet 9	From N/S SOUTH	Feet 1623	From E/W EAST	County LEA
Latitude 32.1088210					Longitude 103.5740338				NAD 1983

First Take Point (FTP)

UL O	Section 21	Township 25S	Range 33E	Lot	Feet 511	From N/S SOUTH	Feet 1663	From E/W EAST	County LEA
Latitude 32.1101996					Longitude 103.5741630				NAD 1983

Last Take Point (LTP)

UL J	Section 16	Township 25S	Range 33E	Lot	Feet 2509	From N/S SOUTH	Feet 1649	From E/W EAST	County LEA
Latitude 32.1302101					Longitude 103.5741059				NAD 1983

Is this well the defining well for the Horizontal Spacing Unit?  NO

Is this well an infill well?  YES

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

API #  
30-025-47179

Operator Name: EOG RESOURCES, INC	Property Name: GREEN DRAKE 21 FEDERAL COM	Well Number #709H
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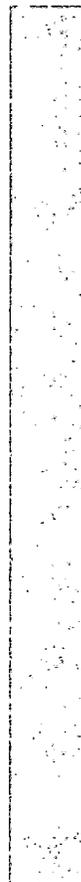
**EOG Resources - Midland**

Lea County, NM (NAD 83 NME)  
Green Drake 21 Fed Com  
#708H  
OH

Design: OH

**Midland PVA**

10 November, 2020





**EOG Resources**  
Midland PVA

<b>Company:</b> EOG Resources - Midland	<b>Local Co-ordinate Reference:</b> Well #708H
<b>Project:</b> Lea County, NM (NAD 83 NME)	<b>TVD Reference:</b> KB = 22' @ 3390.0usft
<b>Site:</b> Green Drake 21 Fed Com	<b>MD Reference:</b> KB = 22' @ 3390.0usft
<b>Well:</b> #708H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> EDM

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

<b>Site:</b> Green Drake 21 Fed Com			
<b>Site Position:</b>	<b>Northing:</b> 404,412.00 usft	<b>Latitude:</b> 32° 6' 34.354 N	
<b>From:</b> Map	<b>Eastings:</b> 775,848.00 usft	<b>Longitude:</b> 103° 34' 33.335 W	
<b>Position Uncertainty:</b> 0.0 usft	<b>Slot Radius:</b> 13-3/16 "	<b>Grid Convergence:</b> 0.40 "	

<b>Well:</b> #708H			
<b>Well Position</b>	<b>Northings:</b> 404,413.00 usft	<b>Latitude:</b> 32° 6' 34.360 N	
<b>+N/-S</b> 0.0 usft	<b>Eastings:</b> 775,914.00 usft	<b>Longitude:</b> 103° 34' 32.568 W	
<b>+E/-W</b> 0.0 usft	<b>Wellhead Elevation:</b> usft	<b>Ground Level:</b> 3,368.0 usft	
<b>Position Uncertainty</b> 0.0 usft			

<b>Wellbore:</b> OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	7/15/2020	6.65	59.83	47,521.55003259

<b>Design:</b> OH				
<b>Audit Notes:</b>				
<b>Version:</b> 1.0	<b>Phase:</b> ACTUAL	<b>Tie On Depth:</b> 0.0		
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	3.36

<b>Survey Program</b> Date: 7/14/2020				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
166.0	19,958.0	Driltech MWD #1 (OH)	EOG MWD+IFR1	MWD + IFR1



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Site:	Green Drake 21 Fed Com	MD Reference:	KB = 22' @ 3390.0usft
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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
166.0	1.85	216.79	166.0	-2.1	-1.6	1.11	1.11	0.00	0.0	0.0
288.0	2.90	217.23	287.9	-6.2	-4.7	0.86	0.86	0.36	0.0	0.0
410.0	3.61	213.98	409.7	-11.8	-8.7	0.60	0.58	-2.66	0.0	0.0
600.0	2.11	216.09	599.4	-19.6	-14.1	0.79	-0.79	1.11	0.0	0.0
791.0	0.97	25.90	790.4	-21.0	-15.4	1.61	-0.60	88.91	0.0	0.0
886.0	3.52	34.07	885.3	-17.9	-13.4	2.70	2.68	8.60	0.0	0.0
982.0	4.75	28.44	981.1	-11.9	-9.9	1.35	1.28	-5.86	0.0	0.0
1,128.0	3.78	49.19	1,126.7	-3.5	-3.4	1.24	-0.66	14.21	0.0	0.0
1,265.0	4.13	54.02	1,263.3	2.4	4.0	0.35	0.26	3.53	-0.5	0.3
1,456.0	6.68	87.33	1,453.5	7.0	20.7	2.06	1.34	17.44	-2.9	6.2
1,646.0	7.03	109.13	1,642.2	3.7	42.7	1.37	0.18	11.47	-2.8	12.8
1,837.0	6.51	112.12	1,831.9	-4.3	63.8	0.33	-0.27	1.57	-4.9	14.5
2,027.0	6.07	112.56	2,020.7	-12.2	83.1	0.23	-0.23	0.23	-6.0	15.3
2,218.0	5.10	113.17	2,210.8	-19.4	100.2	0.51	-0.51	0.32	-4.6	16.1
2,408.0	7.21	113.00	2,399.7	-27.4	118.9	1.11	1.11	-0.09	-5.4	16.6
2,599.0	7.30	113.08	2,589.2	-36.8	141.1	0.05	0.05	0.04	-9.7	17.2
2,789.0	7.21	110.01	2,777.6	-45.6	163.4	0.21	-0.05	-1.62	-15.1	17.7
2,980.0	7.21	104.56	2,967.1	-52.7	186.3	0.36	0.00	-2.85	-21.2	18.6
3,170.0	8.44	115.19	3,155.4	-61.7	210.5	1.00	0.65	5.59	-23.4	24.2
3,361.0	7.83	116.60	3,344.5	-73.5	234.8	0.34	-0.32	0.74	-30.2	24.5
3,552.0	6.68	116.33	3,533.9	-84.2	256.4	0.60	-0.60	-0.14	-34.7	23.7
3,743.0	5.63	111.41	3,723.8	-92.6	275.0	0.61	-0.55	-2.58	-37.3	20.9
3,933.0	5.45	110.89	3,912.9	-99.2	292.1	0.10	-0.09	-0.27	-36.2	21.8
4,123.0	7.12	125.21	4,101.8	-109.2	310.2	1.20	0.88	7.54	-30.9	28.7
4,314.0	8.97	108.25	4,290.9	-120.7	334.0	1.57	0.97	-8.88	-44.5	17.3
4,504.0	8.88	110.36	4,478.6	-130.4	361.8	0.18	-0.05	1.11	-53.8	21.0



EOG Resources  
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3390.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 22' @ 3390.0usft
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
4,695.0	10.46	119.41	4,666.9	-144.1	390.8	1.15	0.83	4.74	-82.1	29.9
4,885.0	7.83	114.93	4,854.5	-156.0	417.5	1.43	-1.38	-2.36	-74.8	23.6
5,076.0	7.30	101.22	5,043.8	-165.8	441.2	0.98	-0.28	-7.18	-83.9	6.8
5,266.0	7.30	95.42	5,232.3	-169.3	465.1	0.39	0.00	-3.05	-89.7	3.6
5,456.0	7.21	91.90	5,420.8	-170.9	489.0	0.24	-0.05	-1.85	-95.6	5.0
5,647.0	6.60	97.53	5,610.4	-172.7	511.9	0.48	-0.32	2.95	-98.7	21.4
5,837.0	5.10	98.05	5,799.4	-175.3	531.1	0.79	-0.79	0.27	-99.1	28.0
6,028.0	1.58	136.20	5,990.1	-178.4	541.3	2.08	-1.84	19.97	-51.5	81.2
6,218.0	0.79	213.54	6,180.0	-181.4	542.4	0.84	-0.42	40.71	63.1	51.1
6,409.0	0.79	208.88	6,371.0	-183.6	541.0	0.03	0.00	-2.44	54.6	36.5
6,599.0	0.70	216.09	6,561.0	-185.7	539.7	0.07	-0.05	3.79	54.0	18.4
6,790.0	0.70	215.74	6,752.0	-187.6	538.3	0.00	0.00	-0.18	51.4	17.7
6,980.0	0.79	229.27	6,942.0	-189.4	536.7	0.10	0.05	7.12	51.7	5.4
7,171.0	1.06	217.23	7,133.0	-191.7	534.6	0.17	0.14	-6.30	46.3	15.8
7,362.0	1.32	211.43	7,323.9	-194.9	532.4	0.15	0.14	-3.04	40.5	20.2
7,541.0	1.32	206.14	7,502.8	-198.6	530.4	0.07	0.00	-2.96	34.4	23.7
Brushy Top(GD 21 FC #708H)										
7,552.0	1.32	205.81	7,513.9	-198.8	530.3	0.07	0.00	-2.95	34.0	23.9
7,743.0	1.14	346.34	7,704.8	-198.9	528.9	1.21	-0.09	73.58	-11.3	-38.6
7,838.0	1.58	340.37	7,799.8	-196.8	528.2	0.49	0.46	-6.28	-9.4	-39.7
7,933.0	1.23	326.13	7,894.8	-194.7	527.2	0.52	-0.37	-14.99	-1.7	-41.1
8,028.0	0.88	323.41	7,989.8	-193.3	526.2	0.37	-0.37	-2.86	-1.5	-41.2
8,124.0	0.79	315.49	8,085.8	-192.2	525.3	0.15	-0.09	-8.25	2.8	-41.1
8,314.0	0.35	256.26	8,275.8	-191.4	523.8	0.36	-0.23	-31.17	35.5	-19.7
8,504.0	0.53	234.37	8,465.7	-192.0	522.6	0.13	0.09	-11.52	38.9	-5.3
8,695.0	0.79	214.95	8,656.7	-193.6	521.1	0.18	0.14	-10.17	36.3	7.7
8,885.0	1.14	202.73	8,846.7	-198.5	519.6	0.21	0.18	-6.43	30.7	14.9



EOG Resources  
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3390.0usft
Site:	Green Drake 21 Fed Corn	MD Reference:	KB = 22' @ 3390.0usft
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
9,075.0	1.06	196.49	9,036.7	-199.9	518.4	0.08	-0.04	-3.28	25.2	17.9
9,266.0	1.23	189.55	9,227.6	-203.6	517.5	0.11	0.09	-3.63	19.1	20.6
9,456.0	1.49	179.70	9,417.6	-208.1	517.2	0.18	0.14	-5.18	10.8	23.3
9,647.0	1.67	169.51	9,608.5	-213.3	517.7	0.17	0.09	-5.34	1.3	24.4
9,837.0	1.06	171.62	9,798.5	-217.8	518.5	0.32	-0.32	1.11	-2.3	24.4
10,028.0	0.88	201.41	9,989.4	-220.9	518.2	0.28	-0.09	15.60	7.1	23.2
10,218.0	0.88	198.07	10,179.4	-223.6	517.2	0.03	0.00	-1.76	2.8	23.5
10,408.0	0.79	171.35	10,370.4	-226.3	517.0	0.21	-0.05	-13.99	-10.7	21.6
10,598.0	3.52	140.50	10,560.2	-232.1	520.9	1.51	1.44	-16.24	-27.2	12.4
10,694.0	1.43	138.22	10,655.1	-235.2	523.5	2.20	-2.20	-2.40	-31.8	11.2
10,789.0	1.23	127.85	10,750.1	-236.8	525.1	0.33	-0.21	-10.92	-35.5	5.1
10,885.0	0.97	95.07	10,846.1	-237.5	526.7	0.70	-0.27	-34.15	-34.2	-15.5
10,980.0	1.85	118.88	10,941.1	-238.3	528.9	1.09	0.93	25.06	-39.8	0.0
11,075.0	1.76	142.79	11,036.0	-240.2	531.1	0.79	-0.09	25.17	-39.3	16.8
11,265.0	2.90	187.88	11,225.9	-247.3	532.2	1.09	0.60	23.73	-22.7	41.7
11,361.0	2.81	205.98	11,321.8	-251.8	530.8	0.94	-0.09	18.85	-13.3	47.5
11,551.0	1.32	229.10	11,511.6	-257.4	527.1	0.88	-0.78	12.17	-0.1	50.7
11,646.0	1.41	232.26	11,606.6	-258.8	525.4	0.12	0.09	3.33	0.4	50.7
11,760.0	3.17	192.80	11,720.5	-262.8	523.6	1.99	1.54	-34.61	-36.1	38.6
11,870.0	6.99	352.18	11,830.3	-259.1	522.0	9.11	3.47	144.89	43.5	-22.4
KOP, MD:11870.0, TVD:11830.3, N/S:-259.1, E/W:522.0, INC:6.99										
11,950.0	14.25	355.49	11,908.9	-244.4	520.6	9.11	9.08	4.13	28.4	-24.6
12,046.0	24.89	357.68	11,999.2	-212.4	518.8	11.11	11.08	2.28	10.5	-24.6
12,135.9	33.04	354.23	12,077.8	-169.0	515.6	9.25	9.06	-3.84	-2.0	-22.1
FTP Crossing, MD:12135.9, TVD:12077.8, N/S:-169.0, E/W:515.6, INC:33.04										
12,141.0	33.50	354.08	12,082.1	-168.2	515.3	9.25	9.10	-2.94	-2.6	-21.9
12,236.0	41.94	351.44	12,157.2	-108.7	507.8	9.04	8.88	-2.78	-12.1	-16.0



**EOG Resources**  
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
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Site:	Green Drake 21 Fed Com	MD Reference:	KB = 22' @ 3390.0usft
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
12,327.8	49.25	353.53	12,221.3	-43.7	499.4	8.13	7.97	2.28	-16.6	-7.7
<b>FTPIGD 21 FC #708H</b>										
12,331.0	49.51	353.60	12,223.4	-41.3	499.1	8.13	7.99	2.01	-16.6	-7.4
12,426.0	55.57	355.09	12,261.2	33.7	491.7	6.50	6.38	1.57	-12.4	0.2
12,522.0	67.53	355.88	12,326.8	117.7	485.1	12.48	12.46	0.82	-3.4	6.6
12,617.0	86.35	357.29	12,348.2	209.7	479.7	19.86	19.81	1.48	-0.8	11.5
12,712.0	90.13	358.52	12,351.1	304.6	476.2	4.18	3.98	1.29	-1.1	14.4
12,808.0	92.24	0.72	12,349.1	400.5	475.5	3.17	2.20	2.29	-4.6	14.4
12,903.0	92.24	2.04	12,345.4	495.4	477.8	1.39	0.00	1.39	-9.8	11.5
12,998.0	82.92	1.86	12,349.4	590.2	481.1	9.81	-9.81	-0.19	-7.3	7.7
13,093.0	87.85	359.84	12,357.1	684.8	482.5	5.61	5.19	-2.13	-1.2	5.6
13,189.0	88.72	359.14	12,359.9	780.8	481.6	1.16	0.91	-0.73	0.2	5.8
13,284.0	89.87	358.26	12,361.1	875.8	479.4	1.52	1.21	-0.93	-0.1	7.4
13,379.0	93.03	358.08	12,358.7	970.7	476.4	3.33	3.33	-0.19	-4.0	9.8
13,474.0	89.60	359.75	12,356.5	1,065.6	474.6	4.02	-3.61	1.76	-7.7	10.9
13,569.0	91.01	359.14	12,356.0	1,160.6	473.7	1.62	1.48	-0.64	-9.7	11.2
13,665.0	87.05	358.43	12,357.7	1,256.5	471.7	4.19	-4.12	-0.74	-9.6	12.6
13,711.4	88.00	358.73	12,359.7	1,302.9	470.5	2.14	2.04	0.65	-8.3	13.5
<b>TGT#1(GD 21 FC #708H)</b>										
13,760.0	88.99	359.05	12,360.9	1,351.5	469.6	2.14	2.04	0.65	-7.6	14.1
13,855.0	84.50	356.24	12,366.3	1,446.2	465.7	5.57	-4.73	-2.96	-3.1	17.4
13,950.0	88.81	358.61	12,371.9	1,540.9	461.4	5.18	4.54	2.49	1.8	21.0
14,046.0	90.57	358.26	12,372.4	1,636.9	458.8	1.87	1.83	-0.36	1.5	23.0
14,141.0	90.04	359.31	12,371.9	1,731.8	456.8	1.24	-0.56	1.11	0.1	24.4
14,236.0	88.81	359.58	12,372.8	1,826.8	455.9	1.33	-1.29	0.28	0.3	24.7
14,332.0	90.57	0.72	12,373.4	1,922.8	456.1	2.18	1.83	1.19	0.0	23.8
14,427.0	83.89	356.50	12,377.9	2,017.6	453.8	8.31	-7.03	-4.44	3.6	25.5



EOG Resources  
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3390.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 22' @ 3390.0usft
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
14,522.0	88.72	359.93	12,384.1	2,112.3	450.9	6.23	5.08	3.61	9.1	27.8
14,617.0	88.29	1.60	12,386.5	2,207.3	452.2	1.81	-0.45	1.76	10.8	25.9
14,712.0	93.03	2.56	12,385.5	2,302.2	455.6	5.09	4.99	1.01	8.8	21.8
14,807.0	91.19	2.04	12,382.0	2,397.0	459.4	2.01	-1.94	-0.55	4.5	17.4
14,903.0	90.13	0.72	12,380.9	2,493.0	461.7	1.76	-1.10	-1.37	2.6	14.5
14,998.0	90.57	0.89	12,380.3	2,588.0	463.1	0.50	0.46	0.18	1.2	12.5
15,093.0	92.77	2.83	12,377.5	2,682.9	466.1	3.09	2.32	2.04	-2.4	8.8
15,188.0	87.14	1.77	12,377.6	2,777.8	470.0	6.03	-6.93	-1.12	-3.1	4.4
15,284.0	88.55	1.77	12,381.2	2,873.7	472.9	1.47	1.47	0.00	-0.3	0.8
15,379.0	89.78	0.89	12,382.6	2,968.6	475.1	1.59	1.29	-0.93	0.2	-2.1
15,474.0	90.31	359.40	12,382.5	3,063.6	475.4	1.66	0.56	-1.57	-0.7	-2.9
15,570.0	87.23	359.05	12,384.6	3,159.6	474.1	3.23	-3.21	-0.36	0.6	-2.3
15,665.0	87.14	358.26	12,389.2	3,254.4	471.8	0.84	-0.09	-0.83	4.4	-0.7
15,760.0	89.43	359.05	12,392.1	3,349.4	469.6	2.55	2.41	0.83	6.5	0.9
15,855.0	89.08	0.37	12,393.3	3,444.3	469.1	1.44	-0.37	1.39	6.9	0.8
15,951.0	85.03	358.79	12,398.2	3,540.2	468.4	4.53	-4.22	-1.65	11.0	0.9
16,046.0	85.47	359.22	12,406.1	3,634.8	466.8	0.65	0.46	0.45	18.1	1.9
16,141.0	88.11	358.43	12,411.4	3,729.7	464.8	2.90	2.78	-0.83	22.6	3.2
16,236.0	91.71	357.82	12,411.6	3,824.6	461.7	3.84	3.79	-0.64	21.9	5.7
16,331.0	93.39	358.17	12,407.3	3,919.4	458.4	1.81	1.77	0.37	16.9	8.4
16,426.0	90.40	359.40	12,404.2	4,014.4	456.4	3.40	-3.15	1.29	12.9	9.8
16,522.0	91.19	0.54	12,402.9	4,110.3	456.3	1.44	0.82	1.19	10.8	9.2
16,617.0	89.43	0.54	12,402.4	4,205.3	457.2	1.85	-1.85	0.00	9.4	7.7
16,712.0	83.71	1.60	12,408.0	4,300.1	459.0	6.12	-6.02	1.12	14.3	5.3
16,807.0	86.09	0.02	12,416.5	4,394.7	460.3	3.00	2.51	-1.66	21.9	3.3
16,903.0	89.60	3.97	12,420.1	4,490.6	463.7	5.50	3.66	4.11	24.7	-0.6
16,998.0	86.79	3.44	12,423.1	4,585.3	469.8	3.01	-2.96	-0.56	26.9	-7.4



EOG Resources  
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #708H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 22' @ 3390.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 22' @ 3390.0usft
Well:	#708H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

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)
17,093.0	86.88	3.44	12,428.3	4,680.0	475.5	0.09	0.09	0.00	31.3	-13.7
17,188.0	87.76	5.20	12,432.8	4,774.6	482.7	2.07	0.93	1.85	35.0	-21.5
17,284.0	87.14	0.63	12,437.0	4,870.4	487.5	4.80	-0.65	-4.76	38.4	-27.0
17,379.0	89.34	359.75	12,440.0	4,965.3	487.9	2.49	2.32	-0.93	40.5	-27.9
17,474.0	86.44	359.49	12,443.5	5,060.2	487.2	3.06	-3.05	-0.27	43.2	-27.9
17,569.0	83.98	358.70	12,451.4	5,154.9	485.7	2.72	-2.59	-0.83	50.3	-27.1
17,664.0	87.85	358.35	12,458.2	5,249.6	483.3	4.09	4.07	-0.37	56.3	-25.2
17,760.0	87.23	357.82	12,462.3	5,345.4	480.1	0.85	-0.65	-0.55	59.6	-22.6
17,855.0	90.92	357.20	12,463.8	5,440.3	476.0	3.94	3.88	-0.65	60.3	-19.1
17,950.0	91.89	358.52	12,461.5	5,535.2	472.4	1.72	1.02	1.39	57.2	-16.2
18,045.0	89.25	358.35	12,460.5	5,630.2	469.8	2.78	-2.78	-0.18	55.4	-14.2
18,141.0	88.20	357.38	12,462.7	5,726.1	466.2	1.49	-1.09	-1.01	56.7	-11.3
18,236.0	88.02	356.76	12,465.8	5,820.9	461.4	0.68	-0.19	-0.65	59.1	-7.0
18,331.0	90.22	358.17	12,467.3	5,915.8	457.2	2.75	2.32	1.48	59.7	-3.5
18,383.1	91.19	358.89	12,466.6	5,967.9	455.9	2.31	1.85	1.38	58.6	-2.5
TGT#2(GD 21 FC #708H)										
18,426.0	91.98	359.48	12,465.4	6,010.8	455.2	2.31	1.85	1.38	57.4	-2.2
18,522.0	88.64	356.67	12,464.9	6,106.7	452.0	4.55	-3.48	-2.93	57.2	0.4
18,617.0	90.66	357.54	12,465.5	6,201.5	447.2	2.32	2.13	0.92	58.1	4.6
18,712.0	92.51	358.34	12,462.9	6,296.4	443.8	2.12	1.95	0.84	55.8	7.4
18,807.0	91.63	356.93	12,459.4	6,391.3	439.9	1.75	-0.93	-1.48	52.6	10.7
18,903.0	93.91	357.98	12,454.8	6,487.1	435.6	2.61	2.37	1.09	48.3	14.3
19,006.0	93.56	0.62	12,448.1	6,589.8	434.4	2.58	-0.34	2.56	41.9	14.9
19,102.0	90.48	1.50	12,444.7	6,685.8	436.2	3.34	-3.21	0.92	38.9	12.5
19,197.0	88.72	2.11	12,445.4	6,780.7	439.1	1.96	-1.85	0.64	39.9	8.9
19,292.0	89.87	2.47	12,446.5	6,875.6	442.9	1.27	1.21	0.38	41.3	4.4
19,387.0	89.78	0.53	12,446.8	6,970.6	445.4	2.04	-0.09	-2.04	41.9	1.3



**EOG Resources**  
Midland PVA

<b>Company:</b> EOG Resources - Midland	<b>Local Co-ordinate Reference:</b> Well #708H
<b>Project:</b> Lea County, NM (NAD 83 NME)	<b>TVD Reference:</b> KB = 22' @ 3390.0usft
<b>Site:</b> Green Drake 21 Fed Com	<b>MD Reference:</b> KB = 22' @ 3390.0usft
<b>Well:</b> #708H	<b>North Reference:</b> Grid
<b>Wellbore:</b> OH	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> OH	<b>Database:</b> EDM

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)
19,482.0	88.99	0.45	12,447.9	7,065.6	446.2	0.84	-0.83	-0.08	43.3	-0.1
19,577.0	88.20	0.36	12,450.2	7,160.5	446.9	0.84	-0.83	-0.09	45.9	-1.4
19,672.0	89.52	359.92	12,452.1	7,255.5	447.1	1.46	1.39	-0.46	48.1	-2.3
19,767.0	89.52	359.97	12,452.9	7,350.5	446.7	0.37	0.00	-0.37	49.2	-2.5
19,862.0	90.75	359.30	12,452.6	7,445.5	445.8	1.33	1.29	-0.28	49.3	-2.1
<b>Last MWD Survey (MD=19862.0)</b>										
19,958.0	90.75	359.30	12,451.4	7,541.5	444.6	0.00	0.00	0.00	48.4	-1.6
<b>Projection to Bit (MD=19958.0) - PBHL(GD 21 FC #708H)</b>										

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,870.0	11,830.3	-259.1	522.0	KOP, MD:11870.0', TVD:11830.3', N/S:-259.1', E/W:522.0', INC:6.99
12,135.9	12,077.8	-169.0	515.6	FTP Crossing, MD:12135.9', TVD:12077.8', N/S:-169.0', E/W:515.6', INC:33.04
19,862.0	12,452.6	7,445.5	445.8	Last MWD Survey (MD=19862.0')
19,958.0	12,451.4	7,541.5	444.6	Projection to Bit (MD=19958.0')

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

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


11/12/2020

Signed \_\_\_\_\_ Date \_\_\_\_\_



Lea County, NM (NAD 83 NME)  
 Green Drake 21 Fed Com #708H  
 Plan #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: #708H  
 KB = 22' @ 3390.0usft 3368.0  
 Northing 404413.00 Easting 775914.00 Latitude 32.1095443°N Longitude 103.5757133°W

Azimuths to Grid North  
 True North: -0.40°  
 Magnetic North: 6.24°  
 Magnetic Field  
 Strength: 47521.6nT  
 Dip Angle: 59.83°  
 Date: 7/15/2020  
 Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.24°  
 To convert a Magnetic Direction to a True Direction, Add 6.65° East  
 To convert a True Direction to a Grid Direction, Subtract 6.40°

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	1128.0	3.78	49.19	1126.7	-3.5	-3.4	0.00	0.00	-3.7	
2	1201.5	3.78	49.19	1200.0	-0.3	0.3	0.00	0.00	-0.3	
3	1479.8	5.94	114.78	1477.4	-0.3	20.3	2.00	103.65	0.9	
4	6372.1	5.94	114.78	6343.5	-212.6	480.0	0.00	0.00	-184.0	
5	6669.1	0.00	0.00	6640.0	-219.0	494.0	2.00	180.00	-189.7	
6	11903.1	0.00	0.00	11874.0	-219.0	494.0	0.00	0.00	-189.7	
7	12645.6	89.10	359.62	12351.4	250.9	490.9	12.00	359.62	279.3	
8	13697.7	89.10	359.62	12368.0	1302.9	484.0	0.00	0.00	1329.0	TGT#1(GD 21 FC #708H)
9	13718.4	89.51	359.62	12368.3	1323.6	483.9	2.00	0.00	1349.7	
10	18361.8	89.51	359.62	12408.0	5966.7	453.4	0.00	0.00	5983.0	TGT#2(GD 21 FC #708H)
11	18395.8	90.19	359.62	12408.1	6000.7	453.1	2.00	0.00	6016.9	
12	19938.1	90.19	359.62	12403.0	7543.0	443.0	0.00	0.00	7556.0	PBHL(GD 21 FC #708H)

CASING DETAILS  
 No casing data is available

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top(GD 21 FC #708H)	7502.0	-219.0	494.0	404194.00	776408.00
FTP(GD 21 FC #708H)	12348.0	-169.0	494.0	404244.00	776408.00
TGT#1(GD 21 FC #708H)	12368.0	1323.6	484.0	403715.00	776358.00
PBHL(GD 21 FC #708H)	12403.0	7543.0	443.0	411956.00	776357.00
TGT#2(GD 21 FC #708H)	12408.0	5966.7	453.4	410397.70	776367.36

