

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 30-025-47179	² Pool Code 98180	³ Pool Name WC025 G09 S253309P; UPPER WOLFCAMP
⁴ Property Code 328239	⁵ Property Name GREEN DRAKE 21 FED COM	
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁶ Well Number 709H
		⁹ Elevation 3361'

¹⁰Surface Location

UL or lot no. P	Section 21	Township 25-S	Range 33-E	Lot Idn -	Feet from the 210'	North/South line SOUTH	Feet from the 825'	East/West line EAST	County LEA
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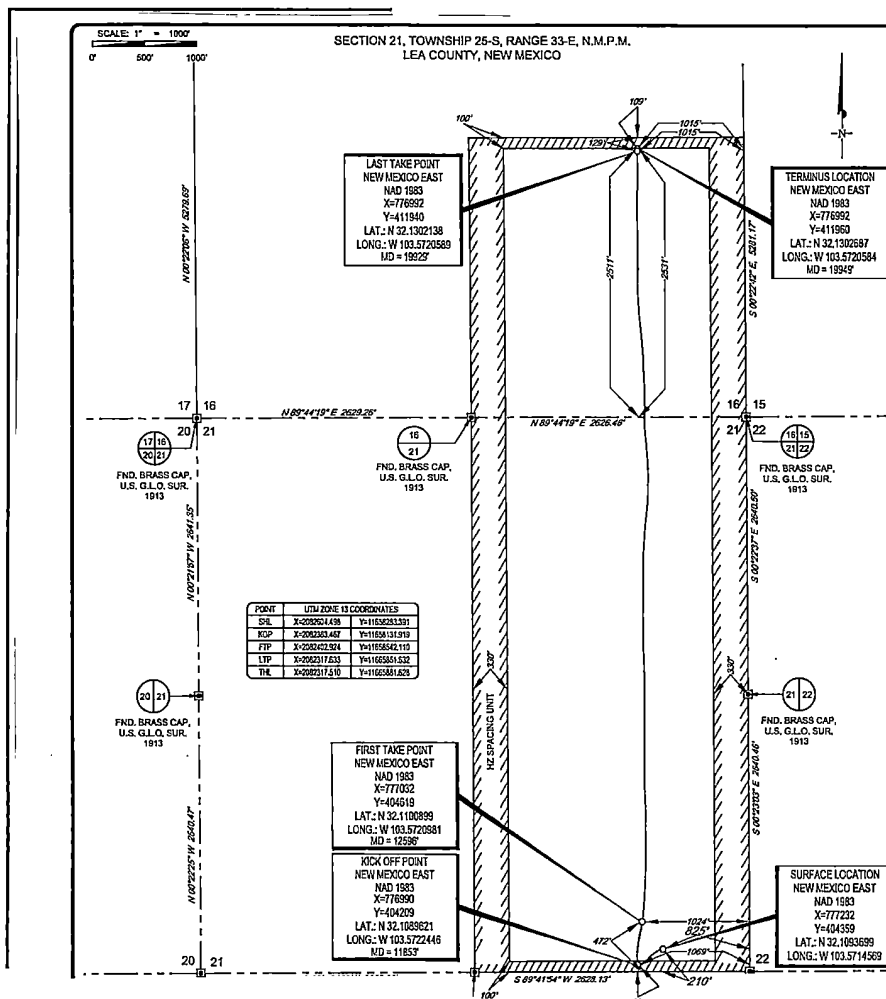
¹¹Bottom Hole Location If Different From Surface

SL

UL or lot no. I	Section 16	Township 25-S	Range 33-E	Lot Idn -	Feet from the 2531'	North/South line SOUTH	Feet from the 1015'	East/West line EAST	County LEA
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¹² Dedicated Acres 480.00	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 11/11/2020
Signature Date

KAY MADDOX

Printed Name

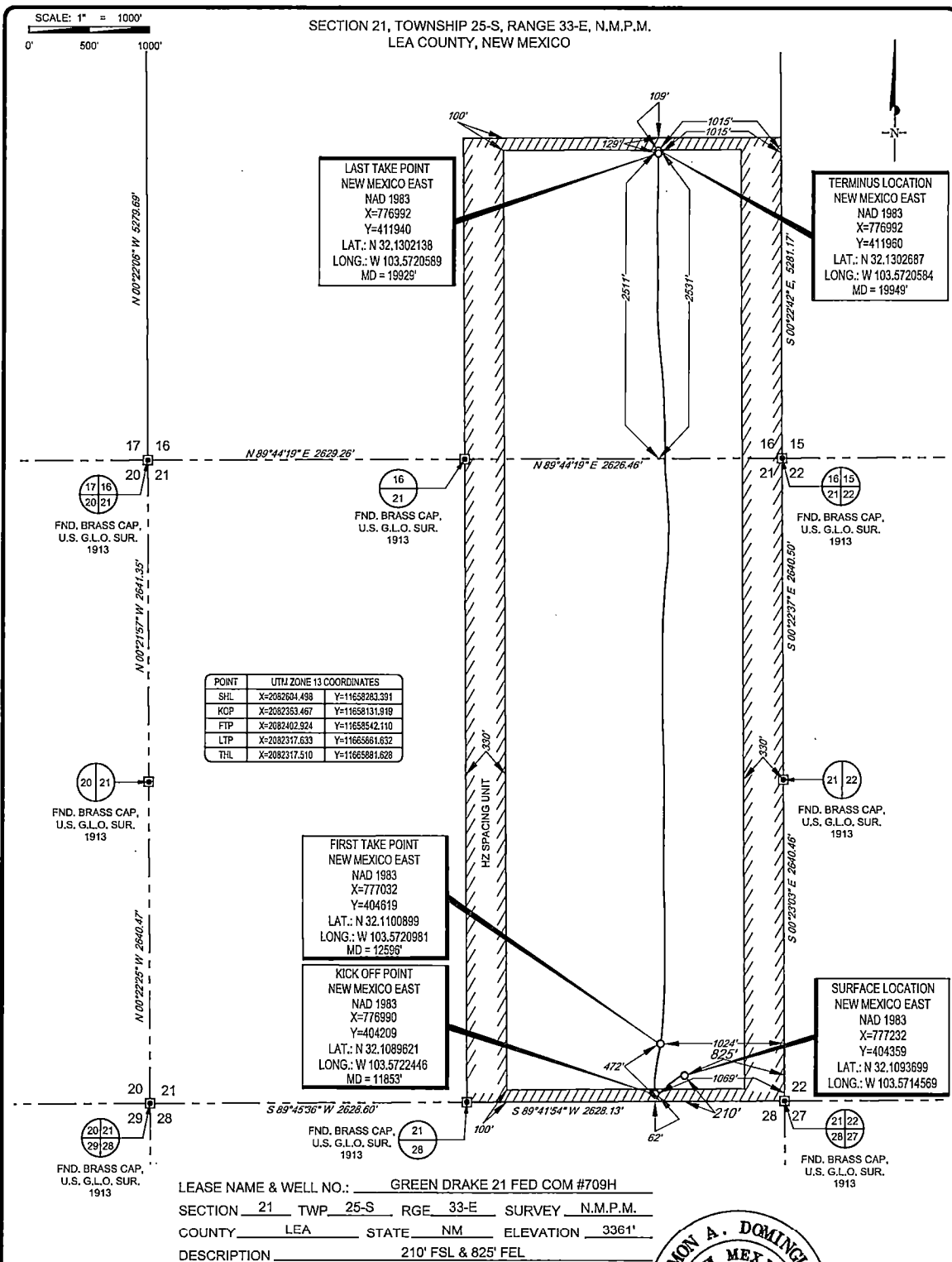
kay_maddox@eogresources.com

E-mail Address

¹⁸SURVEYOR CERTIFICATION

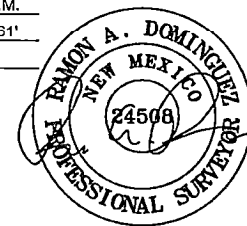
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

04/20/2020
Date of Survey
Signature and Seal of Professional Surveyor
Ramon A. Dominguez
NEW MEXICO
24508
PROFESSIONAL SURVEYOR
Certificate Number



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7312 • FAX: (817) 744-7554
TEXAS FIRM REGISTRATION NO. 10042504
WWW.TOPOGRAPHIC.COM



Ramon A. Dominguez, P.S. No. 24508
OCTOBER 29, 2020

og resources, inc.

GREEN DRAKE 21 FED COM #709H AS-COMPLETED	REVISION:
DATE: 10/28/2020	
FILE: AD_GREEN_DRAKE_21_FED_COM_709H	
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 #

30-025-47179

Operator Name:

EOG RESOURCES, INC

Property Name:

GREEN DRAKE 21 FEDERAL COM

Well Number

709H

Kick Off Point (KOP)

UL P	Section 21	Township 25S	Range 33E	Lot	Feet 62	From N/S SOUTH	Feet 1069	From E/W EAST	County LEA
Latitude 32.1089621					Longitude 103.5722446			NAD 1983	

First Take Point (FTP)

UL P	Section 21	Township 25S	Range 33E	Lot	Feet 472	From N/S SOUTH	Feet 1024	From E/W EAST	County LEA
Latitude 32.1100899					Longitude 103.5720981			NAD 1983	

Last Take Point (LTP)

UL I	Section 16	Township 25S	Range 33E	Lot	Feet 2511	From N/S SOUTH	Feet 1015	From E/W EAST	County LEA
Latitude 32.1302138					Longitude 103.5720589			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

REC'D 11/16/2020 - NMOCD



EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Green Drake 21 Fed Com
#709H
OH

Design: OH

Midland PVA

22 June, 2020



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3393.0usft
Site:	Green Drake 21' Fed Com	MD Reference:	KB = 32' @ 3393.0usft
Well:	#709H	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:	Green Drake 21 Fed Com		
Site Position:		Northing:	404,412.00 usft
From:	Map	Easting:	775,848.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 34.354 N
		Longitude:	103° 34' 33.335 W
		Grid Convergence:	0.40 "

Well	#709H					
Well Position	+N-S	0.0 usft	Northing:	404,359.00 usft	Latitude:	32° 6' 33.733 N
	+E-W	0.0 usft	Easting:	777,232.00 usft	Longitude:	103° 34' 17.249 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,361.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	5/13/2020	6.66	59.83	47,539.92010730

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	358.38

Survey Program	Date	6/22/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.0	19,949.0	Drilltech MWD (OH)	EOG MWD+IFR1	MWD + IFR1



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Midland PVA

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Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3393.0usft
Well:	#709H	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
200.0	0.88	301.43	200.0	0.8	-1.3	0.44	0.44	0.00	-1.5	0.0
301.0	1.08	307.67	301.0	1.8	-2.7	0.21	0.18	6.18	-3.2	0.3
394.0	0.88	310.75	394.0	2.8	-3.9	0.20	-0.19	3.31	-4.8	0.5
486.0	0.79	338.79	486.0	3.8	-4.7	0.45	-0.10	30.48	-5.3	3.0
579.0	0.70	316.81	578.9	4.8	-5.3	0.32	-0.10	-23.63	-7.2	0.6
674.0	0.44	339.58	673.9	5.6	-5.8	0.36	-0.27	23.97	-7.3	3.5
769.0	0.53	340.46	768.9	6.4	-6.1	0.10	0.09	0.93	-8.0	3.6
864.0	0.88	1.73	863.9	7.5	-6.2	0.45	0.37	22.39	-7.3	6.5
960.0	0.70	16.32	959.9	8.8	-6.1	0.28	-0.19	15.20	-6.7	8.3
1,055.0	0.79	17.28	1,054.9	10.0	-5.7	0.10	0.09	1.01	-7.8	8.4
1,181.0	0.26	22.38	1,180.9	10.9	-5.4	0.50	-0.50	4.81	-8.0	9.1
1,256.0	0.35	107.19	1,255.9	11.0	-5.0	0.44	0.09	89.27	7.7	9.5
1,352.0	6.42	240.08	1,351.7	8.2	-9.4	6.94	6.32	138.43	0.0	-12.1
1,447.0	6.51	240.08	1,446.1	2.9	-18.7	0.09	0.09	0.00	-4.2	-12.6
1,542.0	6.51	243.51	1,540.5	-2.2	-28.2	0.41	0.00	3.61	-8.1	-13.0
1,638.0	6.33	243.95	1,635.9	-6.9	-37.8	0.19	-0.19	0.46	-11.2	-14.0
1,733.0	6.33	240.44	1,730.3	-11.8	-47.1	0.41	0.00	-3.69	-13.2	-15.6
1,828.0	5.89	234.46	1,824.8	-17.2	-55.6	0.81	-0.46	-6.29	-13.9	-17.2
1,924.0	5.10	233.32	1,920.3	-22.6	-63.0	0.83	-0.82	-1.19	-15.0	-17.2
2,019.0	4.92	230.42	2,015.0	-27.8	-69.5	0.33	-0.19	-3.05	-14.8	-17.4
2,114.0	5.10	229.19	2,109.6	-33.1	-75.9	0.22	0.19	-1.29	-15.1	-16.9
2,210.0	5.01	233.05	2,205.2	-38.4	-82.4	0.37	-0.09	4.02	-16.9	-15.2
2,305.0	4.48	234.99	2,299.9	-43.0	-88.8	0.58	-0.56	2.04	-17.5	-14.3
2,400.0	4.13	235.51	2,394.6	-47.1	-94.7	0.37	-0.37	0.55	-17.1	-14.1
2,496.0	3.52	233.32	2,490.4	-50.8	-99.9	0.65	-0.64	-2.28	-15.2	-14.5
2,591.0	3.17	235.51	2,585.3	-54.1	-104.4	0.39	-0.37	2.31	-13.6	-13.7



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3393.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3393.0usft
Well:	#709H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
2,686.0	2.99	233.93	2,680.1	-57.0	-108.5	0.21	-0.19	-1.66	-10.6	-13.9
2,782.0	5.45	235.51	2,775.9	-61.1	-114.3	2.57	2.56	1.65	-10.3	-13.4
2,877.0	5.54	230.42	2,870.4	-66.5	-121.6	0.52	0.09	-5.36	-10.5	-13.9
2,973.0	4.92	224.09	2,966.0	-72.4	-128.0	0.88	-0.65	-6.59	-10.0	-13.9
3,068.0	4.57	224.62	3,060.7	-78.1	-133.5	0.37	-0.37	0.56	-10.5	-12.3
3,163.0	4.22	220.05	3,155.4	-83.4	-138.4	0.52	-0.37	-4.81	-9.4	-11.3
3,259.0	3.34	212.66	3,251.2	-88.5	-142.2	1.05	-0.92	-7.70	-7.0	-9.8
3,354.0	3.25	217.94	3,346.1	-92.9	-145.3	0.33	-0.09	5.56	-6.0	-6.4
3,449.0	6.07	227.25	3,440.7	-98.5	-150.7	3.06	2.97	9.80	-7.0	-3.8
3,545.0	6.16	229.80	3,536.2	-105.3	-158.4	0.30	-0.09	2.66	-9.7	-2.4
3,640.0	6.24	228.22	3,630.6	-112.0	-166.1	0.20	0.08	-1.66	-12.3	-1.8
3,735.0	6.16	226.73	3,725.1	-118.9	-173.7	0.19	-0.08	-1.57	-14.9	-1.0
3,831.0	5.80	228.48	3,820.6	-125.7	-181.0	0.42	-0.37	1.82	-17.3	0.6
3,926.0	5.72	233.76	3,915.1	-131.6	-188.5	0.56	-0.08	5.56	-19.0	2.9
4,021.0	4.75	263.64	4,009.7	-134.9	-196.2	3.00	-1.02	31.45	-16.3	10.8
4,117.0	4.04	257.05	4,105.4	-136.1	-203.4	0.91	-0.74	-6.86	-17.5	5.6
4,212.0	4.04	241.67	4,200.2	-138.4	-209.6	1.14	0.00	-16.19	-17.2	-0.9
4,307.0	3.69	242.63	4,295.0	-141.4	-215.3	0.37	-0.37	1.01	-16.0	-1.4
4,403.0	3.87	278.32	4,390.8	-142.4	-221.2	2.42	0.19	37.18	-13.8	4.8
4,498.0	3.17	284.91	4,485.6	-141.2	-227.0	0.85	-0.74	6.94	-14.0	0.9
4,594.0	2.46	310.13	4,581.5	-139.2	-231.1	1.47	-0.74	26.27	-14.6	0.4
4,689.0	1.49	322.17	4,676.4	-136.9	-233.4	1.11	-1.02	12.67	-16.9	-3.8
4,784.0	1.58	343.62	4,771.4	-134.7	-234.5	0.61	0.09	22.58	-21.9	-4.2
4,880.0	1.93	359.26	4,867.3	-131.8	-234.9	0.61	0.36	16.29	-28.4	-2.9
4,975.0	1.32	1.20	4,962.3	-129.1	-234.9	0.64	-0.64	2.04	-32.8	-4.2
5,071.0	1.49	1.81	5,058.3	-126.8	-234.9	0.18	0.18	0.64	-35.4	-4.0
5,166.0	1.58	356.72	5,153.2	-124.2	-234.9	0.17	0.09	-5.36	-37.4	-7.3



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
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Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3393.0usft
Well:	#709H	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)	Bulld (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
5,261.0	1.85	349.16	5,248.2	-121.4	-235.3	0.37	0.28	-7.96	-39.0	-12.3
5,357.0	1.76	334.30	5,344.1	-118.5	-236.2	0.50	-0.09	-15.48	-37.5	-22.3
5,452.0	1.67	322.44	5,439.1	-116.1	-237.7	0.38	-0.09	-12.48	-34.9	-29.8
5,547.0	1.85	327.10	5,534.1	-113.8	-239.3	0.24	0.19	4.91	-40.2	-26.8
5,643.0	1.67	322.88	5,630.0	-111.3	-241.0	0.23	-0.19	-4.40	-41.0	-29.8
5,738.0	1.85	324.02	5,725.0	-109.0	-242.8	0.19	0.19	1.20	-44.5	-28.9
5,833.0	1.49	325.87	5,819.9	-106.7	-244.4	0.38	-0.38	1.95	-48.2	-27.4
5,929.0	0.44	176.63	5,913.9	-106.1	-245.0	1.96	-1.09	-155.46	56.1	-1.7
6,024.0	0.26	198.34	6,010.9	-106.6	-245.1	0.23	-0.19	22.85	51.0	-22.3
6,120.0	0.35	229.36	6,106.9	-107.0	-245.4	0.19	0.09	32.31	31.7	-45.2
6,215.0	0.53	273.83	6,201.9	-107.2	-246.0	0.39	0.19	46.81	-9.7	-54.3
6,310.0	0.79	225.23	6,296.9	-107.6	-246.9	0.62	0.27	-51.16	33.4	-43.5
6,406.0	2.02	197.55	6,392.9	-109.7	-247.9	1.43	1.28	-28.83	47.5	-23.3
6,501.0	2.02	196.23	6,487.8	-112.9	-248.9	0.05	0.00	-1.39	44.6	-22.3
6,596.0	2.02	200.62	6,582.8	-116.1	-250.0	0.16	0.00	4.62	39.5	-25.5
6,692.0	2.02	193.68	6,678.7	-119.3	-251.0	0.25	0.00	-7.23	38.9	-20.7
6,883.0	1.67	191.74	6,869.6	-125.3	-252.3	0.19	-0.18	-1.02	33.4	-19.5
6,978.0	1.58	194.56	6,964.6	-127.9	-252.9	0.13	-0.09	2.97	29.7	-21.1
7,073.0	1.23	236.57	7,059.5	-129.8	-254.1	1.11	-0.37	44.22	6.0	-34.7
7,264.0	0.18	313.39	7,250.5	-130.7	-256.0	0.63	-0.55	40.22	-33.2	-11.7
7,359.0	0.70	72.13	7,345.5	-130.4	-255.6	0.84	0.55	124.99	5.1	34.9
7,455.0	0.62	80.12	7,441.5	-130.1	-254.5	0.13	-0.08	8.32	8.8	33.9
7,523.6	0.62	85.58	7,510.1	-130.0	-253.8	0.09	0.00	7.96	11.3	32.9
Brushy Top (GD 21 FC #709H)										
7,550.0	0.62	87.68	7,536.5	-130.0	-253.5	0.09	0.00	7.95	12.2	32.5
7,646.0	0.62	127.76	7,632.5	-130.3	-252.6	0.44	0.00	41.75	29.3	17.4
7,741.0	0.53	150.35	7,727.5	-131.0	-251.9	0.25	-0.09	23.78	32.8	4.9



EOG Resources
Midland PVA

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Well:	#709H	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)
7,836.0	0.93	174.34	7,822.5	-131.8	-251.7	0.23	0.00	25.25	31.2	-8.7
7,931.0	0.79	189.99	7,917.5	-132.9	-251.8	0.33	0.27	16.47	26.6	-16.6
8,026.0	0.97	195.08	8,012.5	-134.3	-252.1	0.21	0.19	5.36	23.6	-18.9
8,122.0	1.06	198.25	8,108.5	-136.0	-252.6	0.11	0.09	3.30	20.8	-20.1
8,217.0	1.06	187.44	8,203.4	-137.7	-253.0	0.21	0.00	-11.38	22.4	-16.0
8,312.0	1.14	188.41	8,298.4	-139.5	-253.2	0.09	0.08	1.02	20.3	-16.4
8,407.0	1.23	189.28	8,393.4	-141.4	-253.5	0.10	0.09	0.92	18.1	-16.7
8,503.0	1.41	198.34	8,489.4	-143.6	-254.0	0.29	0.19	9.44	13.1	-19.1
8,597.0	1.49	192.45	8,583.4	-145.8	-254.7	0.18	0.09	-6.27	12.6	-17.8
8,693.0	1.76	189.90	8,679.3	-148.5	-255.2	0.29	0.28	-2.66	10.7	-17.3
8,788.0	1.58	186.21	8,774.3	-151.3	-255.6	0.22	-0.19	-3.88	9.0	-16.7
8,883.0	1.58	185.59	8,869.2	-153.9	-255.9	0.02	0.00	-0.65	6.6	-16.6
8,979.0	1.49	184.98	8,965.2	-156.4	-256.1	0.10	-0.09	-0.64	4.2	-16.5
9,074.0	1.23	174.78	9,060.2	-158.7	-256.1	0.37	-0.27	-10.74	4.8	-15.7
9,169.0	1.23	168.10	9,155.2	-160.7	-255.8	0.15	0.00	-7.03	4.6	-15.2
9,265.0	0.26	127.06	9,251.1	-161.8	-255.4	1.09	-1.01	-42.75	12.4	-9.2
9,360.0	1.32	128.82	9,346.1	-162.6	-254.4	1.12	1.12	1.85	10.8	-9.5
9,455.0	2.29	169.95	9,441.1	-165.2	-253.2	1.64	1.02	43.29	-0.8	-13.6
9,550.0	2.99	163.53	9,536.0	-169.4	-252.2	0.80	0.74	-6.76	-3.7	-13.8
9,646.0	2.90	170.04	9,631.9	-174.2	-251.1	0.36	-0.09	6.78	-10.1	-13.0
9,741.0	3.52	153.34	9,726.7	-179.2	-249.3	1.17	0.65	-17.58	-11.2	-16.1
9,836.0	2.02	156.94	9,821.6	-183.3	-247.4	1.59	-1.58	3.79	-16.8	-15.1
9,932.0	1.23	36.53	9,917.6	-184.1	-246.1	2.97	-0.82	-125.43	21.4	-8.3
10,027.0	1.41	170.83	10,012.6	-184.4	-245.3	2.56	0.19	141.37	-21.3	-8.8
10,122.0	1.14	141.74	10,107.5	-186.3	-244.5	0.73	-0.28	-30.62	-16.3	-18.6
10,218.0	1.41	26.51	10,203.5	-186.0	-243.4	2.25	0.28	-120.03	23.0	-7.7
10,313.0	1.85	7.70	10,298.5	-183.4	-242.7	0.72	0.46	-19.80	21.6	-0.2



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3393.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3393.0usft
Well:	#709H	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)
10,409.0	1.49	348.54	10,394.5	-180.7	-242.7	0.69	-0.37	-19.96	17.8	6.4
10,504.0	1.06	7.35	10,489.4	-178.6	-242.8	0.63	-0.45	19.80	16.8	0.7
10,600.0	0.53	78.45	10,585.4	-177.6	-242.3	1.06	-0.55	74.06	5.4	-14.8
10,695.0	0.09	221.63	10,680.4	-177.6	-241.9	0.64	-0.46	150.72	-12.9	8.9
10,790.0	0.53	177.68	10,775.4	-178.1	-242.0	0.49	0.46	-46.26	-16.0	-2.6
10,886.0	1.67	236.39	10,871.4	-179.3	-243.1	1.53	1.19	61.16	-12.2	12.7
10,981.0	2.02	297.92	10,966.4	-179.3	-245.7	2.01	0.37	64.77	3.0	18.0
11,076.0	0.88	265.40	11,061.3	-178.6	-247.9	1.43	-1.20	-34.23	-9.2	15.9
11,172.0	1.06	69.93	11,157.3	-178.3	-247.8	2.00	0.19	171.39	13.0	-12.6
11,267.0	1.76	132.86	11,252.3	-179.0	-245.9	1.67	0.74	66.24	-7.2	-16.5
11,362.0	1.32	3.57	11,347.3	-178.9	-244.8	2.94	-0.46	-136.09	17.2	3.7
11,458.0	2.99	6.47	11,443.2	-175.3	-244.5	1.74	1.74	3.02	13.7	2.9
11,553.0	3.69	9.46	11,538.1	-169.8	-243.7	0.76	0.74	3.15	8.3	2.3
11,648.0	4.75	1.99	11,632.8	-162.9	-243.0	1.25	1.12	-7.86	1.0	3.0
11,794.0	2.81	3.04	11,778.5	-153.3	-242.6	1.33	-1.33	0.72	-8.6	3.1
11,853.0	3.43	350.35	11,837.4	-150.1	-242.9	1.57	1.05	-21.51	-12.2	0.8
KOP, MD:11853.0, TVD:11837.4, N/S:-150.1, E/W:-242.9, INC:3.43										
11,889.0	3.87	344.76	11,873.3	-147.9	-243.4	1.57	1.22	-15.52	-13.5	0.0
11,985.0	7.65	355.13	11,968.8	-138.4	-244.7	4.07	3.94	10.80	-6.5	6.4
12,081.0	14.16	1.20	12,063.0	-120.2	-245.0	6.88	6.78	6.32	11.4	11.4
12,112.4	18.88	358.87	12,093.1	-111.3	-245.1	15.18	15.04	-7.43	17.6	13.7
FTP Crossing, MD:12112.4, TVD:12093.1, N/S:-111.3, E/W:-245.1, INC:18.88										
12,176.0	28.49	356.45	12,151.3	-85.8	-246.2	15.18	15.11	-3.80	28.4	20.1
12,272.0	45.55	2.52	12,227.7	-28.3	-246.1	18.16	17.77	6.32	40.2	24.5
FTP(GD 21 FC #709H)										
12,367.0	56.63	8.02	12,287.3	45.1	-239.1	12.50	11.66	5.79	45.7	23.9
12,462.0	70.79	11.80	12,329.3	128.8	-224.3	15.32	14.91	3.98	46.4	18.4



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3393.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3393.0usft
Well:	#709H	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)
12,558.0	91.28	10.48	12,344.2	221.3	-206.1	21.39	21.34	-1.37	34.7	12.9
12,653.0	93.39	6.08	12,340.3	315.2	-192.4	5.13	2.22	-4.63	22.3	10.9
12,748.0	91.89	4.59	12,335.9	409.7	-183.6	2.22	-1.58	-1.57	16.9	10.9
12,939.0	89.78	2.21	12,333.1	600.3	-172.3	1.67	-1.10	-1.25	12.5	3.7
13,034.0	90.40	2.12	12,333.0	695.3	-168.7	0.66	0.65	-0.09	11.7	-0.6
13,129.0	90.04	0.98	12,332.6	790.2	-166.1	1.26	-0.38	-1.20	10.7	-3.8
13,224.0	89.08	359.84	12,333.3	885.2	-165.4	1.57	-1.01	-1.20	10.7	-5.2
13,320.0	88.90	0.10	12,335.0	981.2	-165.5	0.33	-0.19	0.27	11.7	-5.8
13,415.0	86.61	359.14	12,338.8	1,076.1	-166.1	2.61	-2.41	-1.01	14.8	-5.8
13,510.0	88.64	0.28	12,342.7	1,171.0	-166.6	2.45	2.14	1.20	18.0	-6.0
13,606.0	89.52	0.63	12,344.2	1,267.0	-165.8	0.99	0.92	0.36	18.9	-7.4
13,701.0	86.44	356.68	12,347.6	1,361.9	-168.1	5.27	-3.24	-4.16	21.6	-5.8
13,796.0	88.02	357.64	12,352.2	1,456.7	-172.8	1.95	1.66	1.01	25.5	-1.8
13,892.0	88.64	359.75	12,355.0	1,552.6	-174.9	2.29	0.65	2.20	27.6	-0.3
13,973.7	86.21	359.98	12,358.6	1,634.2	-175.1	2.98	-2.97	0.28	30.7	-0.7
TGT#1(GD 21 FC #709H)										
13,987.0	85.82	0.02	12,359.6	1,647.5	-175.1	2.98	-2.97	0.28	31.5	-0.8
14,083.0	86.09	0.28	12,366.3	1,743.2	-174.9	0.39	0.28	0.27	37.0	-1.6
14,178.0	87.49	359.66	12,371.7	1,838.1	-174.9	1.61	1.47	-0.65	41.0	-2.2
14,273.0	89.25	0.02	12,374.4	1,933.0	-175.2	1.89	1.85	0.38	42.5	-2.6
14,369.0	90.75	0.02	12,374.4	2,029.0	-175.2	1.56	1.56	0.00	41.2	-3.2
14,464.0	89.60	359.93	12,374.1	2,124.0	-175.2	1.21	-1.21	-0.09	39.7	-3.8
14,559.0	87.05	359.31	12,376.8	2,219.0	-175.8	2.76	-2.68	-0.65	41.2	-3.8
14,654.0	88.29	359.75	12,380.7	2,313.9	-176.6	1.38	1.31	0.46	43.8	-3.7
14,750.0	90.31	0.89	12,381.9	2,409.9	-176.1	2.42	2.10	1.19	43.7	-4.8
14,845.0	87.58	358.96	12,383.6	2,504.8	-176.2	3.52	-2.87	-2.03	44.2	-5.3
14,940.0	88.46	358.26	12,386.9	2,599.8	-178.5	1.18	0.93	-0.74	46.2	-3.6



EOG Resources
Midland PVA

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Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3393.0usft
Well:	#709H	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)
15,036.0	88.64	358.17	12,389.3	2,695.7	-181.5	0.21	0.19	-0.09	47.4	-1.3
15,131.0	89.34	357.73	12,391.0	2,790.6	-184.9	0.87	0.74	-0.46	47.8	1.5
15,226.0	89.87	358.61	12,391.7	2,885.6	-187.9	1.08	0.56	0.93	47.2	3.9
15,322.0	90.92	359.05	12,391.0	2,981.5	-189.9	1.19	1.09	0.46	45.3	5.2
15,417.0	91.71	359.40	12,388.8	3,076.5	-191.2	0.91	0.83	0.37	41.8	5.9
15,512.0	91.10	359.93	12,386.5	3,171.5	-191.7	0.85	-0.64	0.56	38.3	5.8
15,607.0	90.22	0.89	12,385.4	3,266.5	-191.0	1.37	-0.93	1.01	35.9	4.5
15,703.0	87.76	0.89	12,387.1	3,362.4	-189.6	2.56	-2.56	0.00	36.3	2.4
15,798.0	85.21	359.49	12,392.9	3,457.2	-189.2	3.06	-2.68	-1.47	40.9	1.5
15,894.0	86.00	359.93	12,400.3	3,552.9	-189.7	0.94	0.82	0.46	47.0	1.3
15,989.0	86.35	359.84	12,406.6	3,647.7	-189.9	0.38	0.37	-0.09	52.1	0.9
16,084.0	90.04	2.04	12,409.6	3,742.7	-188.4	4.52	3.88	2.32	53.8	-1.3
16,179.0	91.45	4.32	12,408.4	3,837.5	-183.1	2.82	1.48	2.40	51.3	-7.2
16,275.0	87.32	3.00	12,409.4	3,933.3	-177.0	4.52	-4.30	-1.37	51.1	-14.0
16,370.0	91.36	5.55	12,410.5	4,028.0	-169.9	5.03	4.25	2.68	51.0	-21.6
16,465.0	94.09	6.43	12,406.0	4,122.3	-160.0	3.02	2.87	0.93	45.3	-32.0
16,561.0	92.77	5.29	12,400.2	4,217.7	-150.2	1.82	-1.37	-1.19	38.3	-42.4
16,688.0	87.41	0.54	12,400.0	4,344.4	-143.7	5.64	-4.22	-3.74	36.3	-49.9
16,751.0	87.58	0.45	12,402.8	4,407.3	-143.2	0.31	0.27	-0.14	38.2	-50.8
16,847.0	88.90	1.42	12,405.7	4,503.3	-141.6	1.71	1.37	1.01	39.9	-53.0
16,942.0	85.82	356.24	12,410.1	4,598.1	-143.6	6.34	-3.24	-5.45	43.2	-51.6
17,010.5	86.14	356.10	12,414.9	4,666.3	-148.1	0.50	0.46	-0.20	47.0	-47.5
TGT#2(GD 21 FC #709H)										
17,037.0	86.26	356.05	12,416.7	4,692.7	-149.9	0.50	0.46	-0.20	48.5	-45.9
17,133.0	86.35	355.79	12,422.9	4,788.2	-156.8	0.29	0.09	-0.27	54.1	-39.7
17,228.0	85.38	353.41	12,429.7	4,882.6	-165.7	2.70	-1.02	-2.51	60.3	-31.3
17,324.0	91.19	356.67	12,432.6	4,978.1	-174.0	6.94	6.05	3.40	62.4	-23.8



EOG Resources
Midland PVA

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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3393.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3393.0usft
Well:	#709H	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)
17,419.0	91.71	1.68	12,430.2	5,073.0	-175.3	5.30	0.55	5.27	59.4	-23.1
17,514.0	89.25	0.18	12,429.4	5,168.0	-173.8	3.03	-2.59	-1.58	57.9	-25.2
17,610.0	89.69	358.34	12,430.3	5,264.0	-175.0	1.97	0.46	-1.92	58.2	-24.6
17,705.0	91.36	358.42	12,429.4	5,358.9	-177.7	1.76	1.76	0.08	56.6	-22.6
17,800.0	91.28	356.75	12,427.2	5,453.8	-181.7	1.76	-0.08	-1.76	53.8	-19.2
17,896.0	90.22	357.98	12,426.0	5,549.7	-186.1	1.69	-1.10	1.28	51.9	-15.4
17,991.0	84.59	357.11	12,430.3	5,644.5	-190.2	6.00	-5.93	-0.92	55.5	-12.0
18,118.0	86.79	354.82	12,439.8	5,770.8	-199.1	2.50	1.73	-1.80	64.2	-3.8
18,203.0	90.48	354.47	12,441.8	5,855.4	-207.0	4.36	4.34	-0.41	65.7	3.5
18,277.0	92.24	354.20	12,440.1	5,929.0	-214.3	2.41	2.38	-0.36	63.4	10.3
18,372.0	92.68	354.82	12,436.0	6,023.5	-223.4	0.80	0.46	0.65	58.7	18.7
18,467.0	92.15	354.82	12,432.0	6,118.0	-232.0	0.56	-0.56	0.00	54.1	26.7
18,563.0	91.01	356.23	12,429.3	6,213.7	-239.5	1.89	-1.19	1.47	50.8	33.5
18,658.0	90.57	0.62	12,428.0	6,308.6	-242.1	4.64	-0.46	4.62	48.8	35.6
18,753.0	91.28	1.32	12,426.5	6,403.6	-240.5	1.05	0.75	0.74	46.6	33.3
18,848.0	88.20	359.74	12,426.9	6,498.6	-239.6	3.64	-3.24	-1.66	46.4	31.8
18,944.0	88.55	359.92	12,429.7	6,594.5	-239.9	0.41	0.36	0.19	48.5	31.5
19,039.0	89.96	0.18	12,430.9	6,689.5	-239.8	1.51	1.48	0.27	49.1	30.8
19,134.0	90.04	359.13	12,430.9	6,784.5	-240.4	1.11	0.08	-1.11	48.4	30.7
19,230.0	90.40	359.13	12,430.5	6,880.5	-241.8	0.37	0.37	0.00	47.4	31.5
19,325.0	91.10	358.69	12,429.3	6,975.5	-243.6	0.87	0.74	-0.46	45.5	32.7
19,420.0	92.86	0.71	12,426.0	7,070.4	-244.1	2.82	1.85	2.13	41.6	32.6
19,515.0	90.84	1.15	12,422.9	7,165.3	-242.6	2.18	-2.13	0.46	37.9	30.4
19,610.0	86.00	0.97	12,425.5	7,260.3	-240.8	5.10	-5.09	-0.19	39.9	28.1
19,706.0	88.46	0.01	12,430.2	7,356.1	-240.0	2.75	2.56	-1.00	43.8	26.6
19,754.0	88.81	0.01	12,431.3	7,404.1	-240.0	0.73	0.73	0.00	44.7	26.3

Last MWD Survey (MD=19754.0)



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #709H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3393.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3393.0usft
Well:	#709H	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)	Buid (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
19,948.9	88.81	0.01	12,435.4	7,599.0	-240.0	0.00	0.00	0.00	47.4	25.0
PBHL(GD 21 FC #709H)										
19,949.0	88.81	0.01	12,435.4	7,599.1	-240.0	0.00	0.00	0.00	47.4	25.0
Projection to Bit (MD=19949.0')										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,853.0	11,837.4	-150.1	-242.9	KOP, MD:11853.0', TVD:11837.4', N/S:-150.1', E/W:-242.9', INC:3.43
12,112.4	12,093.1	-111.3	-245.1	FTP Crossing, MD:12112.4', TVD:12093.1', N/S:-111.3', E/W:-245.1', INC:18.88
19,754.0	12,431.3	7,404.1	-240.0	Last MWD Survey (MD=19754.0')
19,949.0	12,435.4	7,599.1	-240.0	Projection to Bit (MD=19949.0')

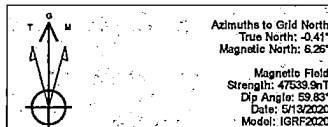
Checked By: _____ Approved By: _____ Date: _____

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

Kay Maddox 11/12/2020
Signed Date



Lea County, NM (NAD 83 NME)
Green Drake 21 Fed Com #709H
Plan #2



To convert a Magnetic Direction to a Grid Direction, Add 6.26°
To convert a Magnetic Direction to a True Direction, Subtract 6.41°

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: #709H
KB = 32' @ 3393.0uoft 3361.0
Northing 404359.00 Easting 777232.00 Latitude 32° 5' 23.733 N Longitude 103° 34' 17.249 W

SECTION DETAILS

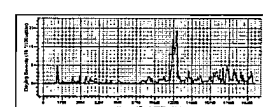
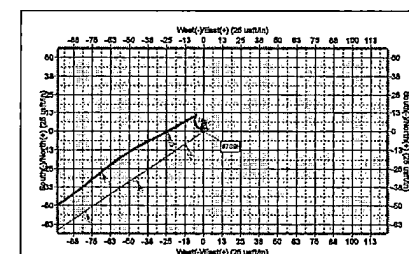
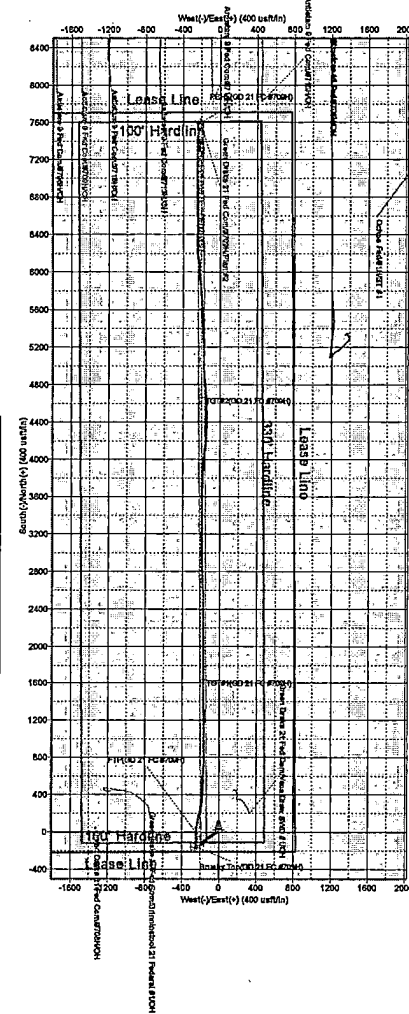
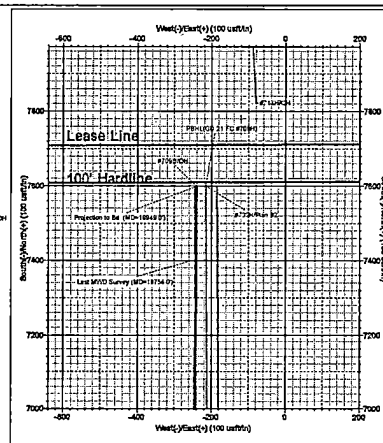
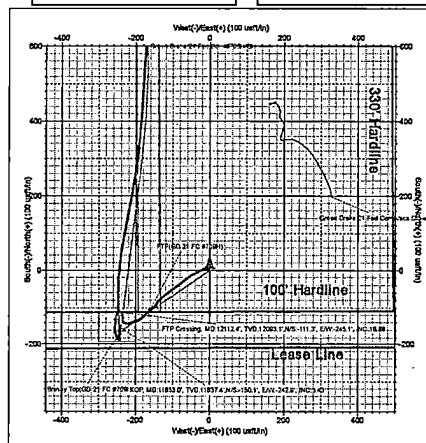
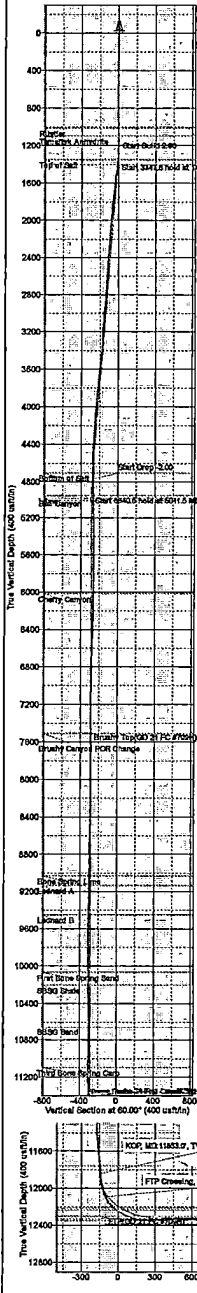
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1432.0	4.64	235.98	1431.7	-5.3	-7.8	2.00	235.98	-5.0	
4	4779.5	4.64	235.98	4768.3	-156.7	-232.2	0.00	0.00	-150.1	
5	5011.5	0.00	0.00	5000.0	-162.0	-240.0	2.00	180.00	-155.1	
6	11852.0	0.00	0.00	11840.5	-162.0	-240.0	0.00	0.00	-155.1	
7	12596.5	89.34	7.00	12317.9	306.4	-182.5	12.00	7.00	311.5	
8	12843.2	89.59	359.60	12320.2	552.6	-168.3	3.00	-88.11	557.1	
9	13926.4	89.59	359.60	12328.0	1635.7	-175.8	0.00	0.00	1640.0	TGT#1(GD 21 FC #709H)
10	13943.7	89.24	359.62	12328.2	1653.1	-175.9	2.00	176.42	1657.4	
11	16957.3	89.24	359.62	12368.0	4666.3	-195.7	0.00	0.00	4670.0	TGT#2(GD 21 FC #709H)
12	16975.7	89.61	359.62	12368.2	4684.7	-195.8	2.00	-0.01	4688.3	
13	19891.1	89.61	359.62	12386.0	7600.0	-215.0	0.00	0.00	7603.0	PBHL(GD 21 FC #709H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
Brushy Top(GD 21 FC #709H)	7510.0	-162.0	-240.0	404197.00	776992.00
FTP(GD 21 FC #709H)	12318.0	-112.0	-164.0	404247.00	777068.00
TGT#1(GD 21 FC #709H)	12328.0	1635.7	-175.8	405994.70	777058.10
TGT#2(GD 21 FC #709H)	12368.0	4666.3	-195.7	405025.30	777038.28
PBHL(GD 21 FC #709H)	12386.0	7600.0	-215.0	411959.00	777017.00



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