

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 30-025-47181	² Pool Code 98180	³ Pool Name WC025 G09 S253309P; UPPER WOLFCAMP
⁴ Property Code 328239	⁵ Property Name GREEN DRAKE 21 FED COM	⁶ Well Number 711H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3359'

¹⁰Surface Location

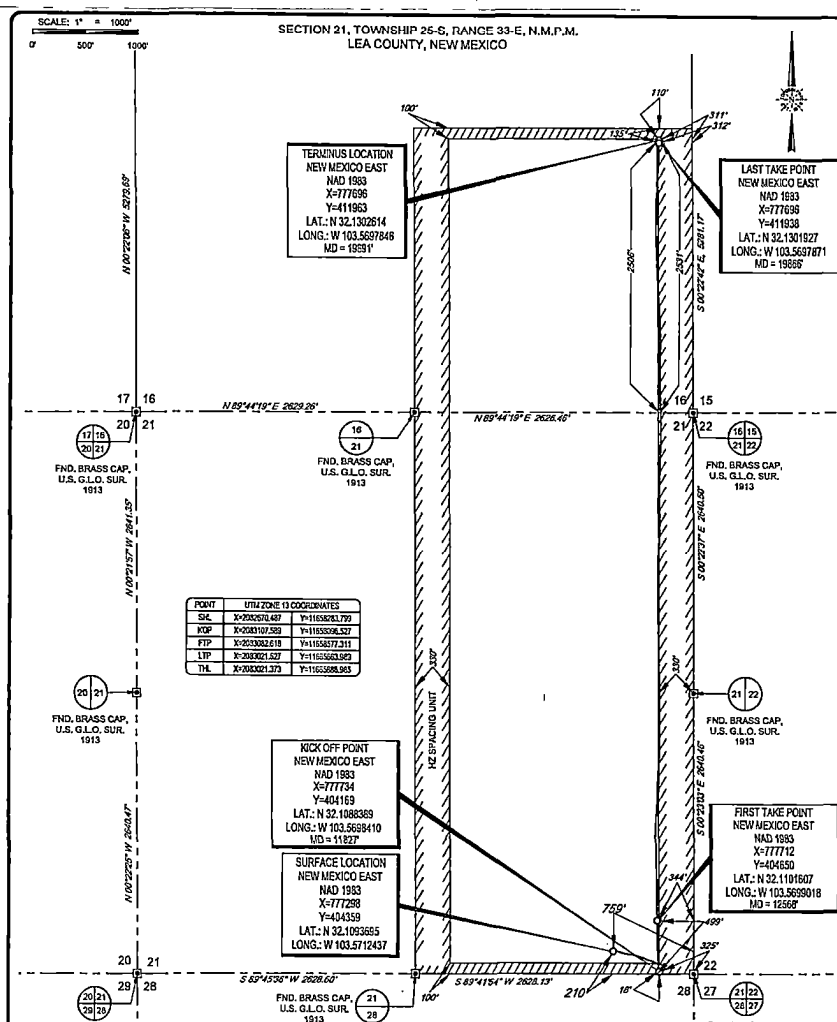
UL or lot no.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
P	21	25-S	33-E	-	210'	SOUTH	759'	EAST	LEA

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
I	16	25-S	33-E	-	2531'	SOUTH	311'	EAST	LEA

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

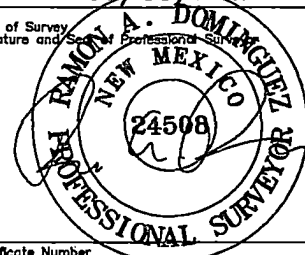
kay_maddox@eogresources.com

E-mail Address

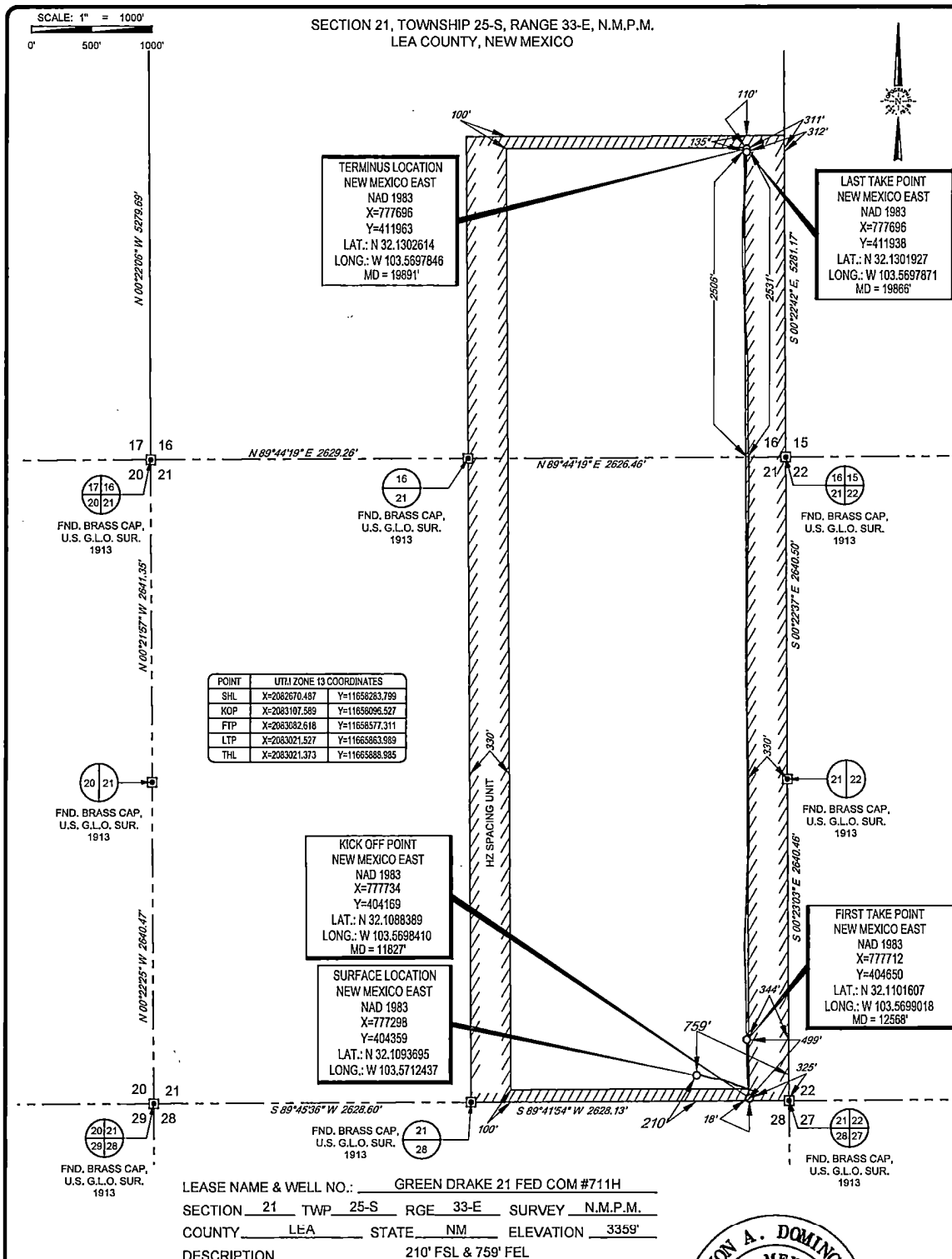
¹⁸SURVEYOR CERTIFICATION

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.

07/09/2019

Date of Survey
Signature and Seal of Professional Surveyor

Certificate Number



geog resources, Inc.

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 29, 2020

GREEN DRAKE 21 FED COM #711H AS-COMPLETED	REVISION:	NOTES:
DATE: 10/28/2020		1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
FILE: AD_GREEN_DRAKE_21_FED_COM_711H		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.
DRAWN BY: A.V.F.		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 GEOGRAPHIC 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.
SHEET: 1 OF 1		

Intent ☐ As Drilled ☒ XXX

API # 30-025-47181			
Operator Name: EOG RESOURCES, INC		Property Name: GREEN DRAKE 21 FEDERAL COM	Well Number 711H

Kick Off Point (KOP)

UL P	Section 21	Township 25S	Range 33E	Lot	Feet 18	From N/S SOUTH	Feet 325	From E/W EAST	County LEA
Latitude 32.1088389					Longitude 103.5698410				NAD 1983

First Take Point (FTP)

UL P	Section 21	Township 25S	Range 33E	Lot	Feet 499	From N/S SOUTH	Feet 344	From E/W EAST	County LEA
Latitude 32.1101607					Longitude 103.5699018				NAD 1983

Last Take Point (LTP)

UL I	Section 16	Township 25S	Range 33E	Lot	Feet 2506	From N/S SOUTH	Feet 312	From E/W EAST	County LEA
Latitude 32.1301927					Longitude 103.5697871				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

KZ 06/29/2018



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Green Drake 21 Fed Com

#711H

OH

Design: OH

Midland PVA

20 July, 2020



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #711H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3391.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3391.0usft
Well:	#711H	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	#711H		
Well Position	+N-S	0.0 usft	Northing:
	+E-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Ground Level:

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2020	7/20/2020	6.64
			Dip Angle
			59.83
			Field Strength
			47,520.54373405

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			2.85

Survey Program	Date 7/20/2020		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		Description
200.0	19,891.0	Driltech MWD (OH)	EOG MWD+IFR1
			MWD + IFR1



EOG Resources
Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Green Drake 21 Fed Com
Well: #711H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #711H
TVD Reference: KB = 32' @ 3391.0usft
MD Reference: KB = 32' @ 3391.0usft
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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
200.0	0.97	44.96	200.0	1.2	1.2	0.48	0.48	0.00	-1.7	0.0	
301.0	0.79	60.34	301.0	2.1	2.4	0.29	-0.18	15.23	-3.2	0.7	
394.0	0.97	53.40	394.0	2.9	3.6	0.22	0.19	-7.46	-4.6	0.2	
486.0	1.06	61.83	486.0	3.8	5.0	0.19	0.10	9.16	-6.2	1.0	
579.0	1.06	52.69	578.9	4.7	6.4	0.18	0.00	-9.83	-8.0	-0.1	
674.0	0.62	58.58	673.9	5.5	7.5	0.47	-0.46	6.20	-9.3	0.8	
769.0	0.62	56.12	768.9	6.1	8.4	0.03	0.00	-2.59	-10.4	0.4	
864.0	0.62	34.32	863.9	6.8	9.1	0.25	0.00	-22.95	-10.8	-3.7	
960.0	0.70	31.69	959.9	7.7	9.7	0.09	0.08	-2.74	-11.7	-4.2	
1,055.0	0.62	28.52	1,054.9	8.7	10.3	0.09	-0.08	-3.34	-12.5	-4.9	
1,161.0	0.88	47.86	1,160.9	9.7	11.2	0.34	0.25	18.25	-14.8	-0.3	
1,256.0	1.32	35.73	1,255.9	11.1	12.3	0.52	0.46	-12.77	-16.1	-3.0	
1,352.0	3.87	99.10	1,351.8	11.5	16.2	3.63	2.66	66.01	-10.2	14.7	
1,447.0	6.95	107.54	1,446.4	9.2	24.8	3.34	3.24	8.88	-10.2	16.8	
1,542.0	8.44	116.06	1,540.5	4.4	36.6	1.97	1.57	8.97	-11.4	18.1	
1,638.0	8.09	117.20	1,635.5	-1.7	48.9	0.40	-0.36	1.19	-15.7	17.3	
1,733.0	8.18	105.51	1,729.5	-6.6	61.4	1.74	0.09	-12.31	-23.2	13.2	
1,828.0	8.35	103.40	1,823.6	-10.0	74.6	0.37	0.18	-2.22	-28.3	13.1	
1,924.0	8.00	103.05	1,918.6	-13.1	87.9	0.37	-0.36	-0.36	-32.9	14.0	
2,019.0	7.83	104.72	2,012.7	-16.3	100.6	0.30	-0.18	1.76	-36.5	16.1	
2,114.0	7.56	104.20	2,106.8	-19.4	112.9	0.29	-0.28	-0.55	-40.3	16.6	
2,210.0	7.56	101.03	2,202.0	-22.2	125.2	0.43	0.00	-3.30	-44.7	15.5	
2,305.0	7.39	99.54	2,296.2	-24.4	137.4	0.27	-0.18	-1.57	-48.5	15.8	
2,400.0	7.47	96.90	2,390.4	-26.2	149.5	0.37	0.08	-2.78	-52.6	15.4	
2,496.0	7.56	95.41	2,485.6	-27.5	162.0	0.22	0.09	-1.55	-56.7	16.2	
2,591.0	8.00	92.77	2,579.7	-28.4	174.8	0.60	0.46	-2.78	-61.6	16.0	



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #711H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3391.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3391.0usft
Well:	#711H	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)
2,686.0	7.91	95.14	2,673.8	-29.3	188.0	0.36	-0.09	2.49	-65.2	21.2
2,782.0	8.27	109.65	2,768.8	-32.2	201.0	2.15	0.37	15.11	-62.0	38.5
2,877.0	8.44	110.17	2,862.8	-36.9	214.0	0.20	0.18	0.55	-66.4	39.2
2,972.0	8.18	108.85	2,956.8	-41.5	227.0	0.34	-0.27	-1.39	-71.9	37.7
3,068.0	8.09	110.00	3,051.9	-46.0	239.8	0.19	-0.09	1.20	-75.5	39.3
3,163.0	8.27	107.18	3,145.9	-50.3	252.6	0.46	0.19	-2.97	-81.8	35.7
3,258.0	8.53	106.83	3,239.9	-54.4	265.8	0.28	0.27	-0.37	-86.8	35.7
3,354.0	7.91	110.00	3,334.9	-58.7	278.9	0.80	-0.65	3.30	-89.3	40.8
3,449.0	7.56	113.69	3,429.0	-63.5	290.7	0.64	-0.37	3.88	-90.2	46.3
3,544.0	6.68	117.73	3,523.3	-68.6	301.4	1.07	-0.93	4.25	-89.5	51.7
3,640.0	7.12	114.57	3,618.6	-73.6	311.7	0.61	0.46	-3.29	-94.5	45.8
3,735.0	7.03	114.74	3,712.9	-78.5	322.3	0.10	-0.09	0.18	-97.0	45.3
3,826.0	6.51	101.82	3,802.5	-85.6	343.6	0.84	-0.27	-6.76	-108.8	22.6
4,021.0	6.60	103.14	3,996.9	-88.0	354.1	0.18	0.09	1.39	-110.1	26.4
4,116.0	6.33	105.95	4,091.3	-90.6	364.5	0.44	-0.28	2.96	-110.3	32.6
4,212.0	6.16	110.08	4,186.8	-93.9	374.4	0.50	-0.18	4.30	-108.9	40.9
4,307.0	6.60	112.02	4,281.2	-97.7	384.3	0.52	0.46	2.04	-108.9	44.4
4,403.0	7.56	112.19	4,376.4	-102.1	395.2	1.00	1.00	0.18	-111.4	44.4
4,498.0	6.68	111.49	4,470.7	-106.5	406.2	0.93	-0.93	-0.74	-114.6	42.8
4,593.0	7.12	116.25	4,565.0	-111.1	416.6	0.76	0.46	5.01	-113.0	51.6
4,689.0	7.56	118.43	4,660.2	-116.8	427.5	0.54	0.46	2.27	-114.2	54.7
4,784.0	4.84	103.40	4,754.7	-120.7	436.9	3.31	-2.86	-15.82	-125.4	22.8
4,879.0	4.57	93.91	4,849.3	-121.9	444.5	0.87	-0.28	-9.99	-126.5	3.8
4,975.0	4.40	99.98	4,945.1	-122.8	452.0	0.52	-0.18	6.32	-123.8	19.1
5,070.0	4.31	98.75	5,039.8	-123.9	459.1	0.14	-0.09	-1.29	-122.4	18.2
5,166.0	3.96	95.76	5,135.5	-124.8	466.0	0.43	-0.36	-3.11	-121.2	13.9
5,261.0	2.73	96.02	5,230.4	-125.4	471.5	1.29	-1.29	0.27	-117.8	16.7



EOG Resources
Midland PVA

Company:	EOG Resources - Midland
Project:	Lea County, NM (NAD 83 NME)
Site:	Green Drake 21 Fed Com
Well:	#711H
Wellbore:	OH
Design:	OH
Local Co-ordinate Reference:	Well #711H
TVD Reference:	KB = 32' @ 3391.0usft
MD Reference:	Gnd
Survey Calculation Method:	Minimum Curvature
Database:	EDM

Survey	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)
	5,357.0	1.76	123.36	5,326.3	-126.4	475.0	1.48	-1.01	28.48	-91.6	67.9
	5,452.0	1.76	117.47	5,421.3	-127.9	477.5	0.19	0.00	-5.20	-91.9	56.8
	5,547.0	1.49	117.47	5,516.2	-129.1	479.9	0.28	-0.28	0.00	-85.5	55.7
	5,642.0	1.41	110.00	5,611.2	-130.1	482.1	0.22	-0.08	-7.86	-84.4	44.0
	5,738.0	1.41	101.03	5,707.2	-130.7	484.3	0.23	0.00	-9.34	-84.4	31.4
	5,833.0	1.67	103.40	5,802.1	-131.3	486.8	0.28	0.27	2.49	-76.5	36.0
	5,929.0	1.32	259.94	5,898.1	-131.8	487.1	3.05	-0.36	163.06	76.7	-6.7
	6,024.0	1.14	255.90	5,993.1	-132.2	485.1	0.21	-0.19	-4.25	67.7	-6.3
	6,119.0	1.14	250.18	6,088.1	-132.8	483.3	0.12	0.00	-6.02	61.4	-3.5
	6,215.0	1.23	256.60	6,184.0	-133.3	481.4	0.17	0.09	6.69	56.0	-11.9
	6,310.0	1.32	247.28	6,279.0	-134.0	479.4	0.24	0.09	-9.81	54.8	-3.1
	6,406.0	1.41	265.63	6,375.0	-134.7	477.2	0.23	0.09	8.70	51.5	-10.8
	6,501.0	1.41	252.38	6,470.0	-135.4	475.0	0.08	0.00	-3.42	49.7	-8.0
	6,596.0	1.14	252.20	6,564.9	-136.0	473.0	0.28	-0.28	-0.19	47.7	-7.8
	6,691.0	1.06	255.28	6,659.9	-136.5	471.2	0.10	-0.08	3.24	45.3	-10.3
	6,787.0	1.32	259.59	6,755.9	-136.9	469.3	0.29	0.27	4.49	42.4	-13.6
	6,882.0	1.23	250.45	6,850.9	-137.5	467.3	0.23	-0.09	-9.62	42.0	-6.9
	6,978.0	1.23	257.39	6,946.9	-138.1	465.3	0.16	0.00	7.23	38.8	-11.8
	7,073.0	1.49	246.75	7,041.8	-138.8	463.1	0.38	0.27	-11.20	38.0	-4.6
	7,168.0	1.41	233.13	7,136.8	-140.0	461.1	0.37	-0.08	-14.34	35.7	4.2
	7,264.0	1.41	224.96	7,232.8	-141.5	459.3	0.21	0.00	-8.51	32.4	9.1
	7,359.0	1.58	223.73	7,327.7	-143.3	457.6	0.18	0.18	-1.29	29.7	9.7
	7,455.0	1.58	223.46	7,423.7	-145.2	455.7	0.01	0.00	-0.28	27.0	9.9
	7,550.0	1.67	215.90	7,518.7	-147.3	454.0	0.24	0.09	-7.96	22.8	13.2
	7,559.0	1.66	215.62	7,527.6	-147.5	453.9	0.13	-0.10	-3.07	22.5	13.3
Brushy Top (GD 21 FC #711H)	7,645.0	1.58				452.5	0.13	-0.09	-3.25	19.4	14.3



EOG Resources
Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Green Drake 21 Fed Com
Well: #711H
Wellbore: OH
Design: OH
Database:
Survey Calculation Method:
North Reference:
MD Reference:
TVD Reference:
Local Co-ordinate Reference:
Well #711H
KB = 32' @ 3391.0usft
KB = 32' @ 3391.0usft
Grd
Minimum Curvature
EDM

Survey	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)
	7,740.0	1.76	199.65	7,708.6	-152.0	451.3	0.45	0.19	-13.87	12.9	18.0
	7,936.0	1.49	195.69	7,804.5	-154.5	450.5	0.30	-0.28	-4.12	8.9	18.8
	7,931.0	1.76	188.22	7,699.5	-157.2	449.9	0.36	0.28	-7.86	3.7	19.6
	8,026.0	1.76	180.84	7,994.5	-160.1	449.7	0.24	0.00	-7.77	-1.8	19.7
	8,121.0	1.93	182.42	8,089.4	-163.1	449.6	0.19	0.18	1.66	-4.3	19.8
	8,217.0	1.93	181.10	8,185.4	-166.4	449.5	0.05	0.00	-1.37	-8.0	19.7
	8,312.0	2.20	183.47	8,280.3	-169.8	449.4	0.30	0.28	2.49	-10.6	20.1
	8,407.0	2.29	188.75	8,375.2	-173.5	449.0	0.24	0.09	5.56	-12.4	21.1
	8,502.0	2.29	199.21	8,470.2	-177.2	448.1	0.44	0.00	11.01	-12.1	23.4
	8,597.0	2.29	184.26	8,565.1	-180.8	447.3	0.63	0.00	-15.74	-21.5	19.0
	8,692.0	0.88	336.58	8,660.1	-182.1	446.9	3.26	-1.48	160.34	28.8	-5.9
	8,788.0	1.32	321.99	8,766.0	-180.5	446.9	0.54	0.46	-15.20	27.5	1.3
	8,883.0	1.32	323.92	8,851.0	-178.8	444.6	0.05	0.00	2.03	25.4	0.5
	8,978.0	1.14	308.98	8,946.0	-177.3	443.2	0.39	-0.19	-15.73	22.4	6.7
	9,074.0	1.14	290.26	9,042.0	-176.4	441.6	0.39	0.00	-19.50	17.2	13.2
	9,169.0	0.79	268.53	9,137.0	-176.2	440.0	0.66	-0.37	-33.40	6.2	19.8
	9,265.0	0.97	251.94	9,232.9	-176.5	438.6	0.21	0.19	-6.86	2.4	20.3
	9,360.0	1.32	248.25	9,327.9	-177.2	436.8	0.38	0.37	-3.88	-0.8	20.4
	9,455.0	1.49	218.89	9,422.9	-178.6	435.0	0.77	0.18	-30.91	-12.8	16.8
	9,550.0	0.53	72.29	9,517.9	-179.4	434.7	2.06	-1.01	-154.32	2.1	-21.8
	9,645.0	2.20	61.13	9,612.9	-178.4	436.7	1.77	1.76	-11.75	4.0	-21.1
	9,741.0	1.06	50.32	9,708.8	-176.9	439.0	1.22	-1.19	-11.26	5.2	-20.3
	9,836.0	0.62	99.54	9,803.8	-176.4	440.2	0.85	-0.46	51.81	-13.1	-16.5
	9,931.0	1.23	169.76	9,898.8	-177.5	440.9	1.24	0.64	73.92	-21.2	7.2
	10,027.0	0.97	245.61	9,994.8	-178.9	440.3	1.42	-0.27	79.01	0.8	23.3
	10,122.0	1.06	273.56	10,089.8	-179.2	438.7	0.52	0.09	29.42	10.0	20.6
	10,217.0	1.06	292.28	10,184.8	-178.8	437.0	0.36	0.00	19.71	14.4	16.6



EOG Resources
Midland PVA

Company:		EOG Resources - Midland				Local Co-ordinate Reference:		Well #711H			
Project:		Lea County, NM (NAD 83 NME)				TVD Reference:		KB = 32' @ 3391.0usft			
Site:		Green Drake 21 Fed Com				MD Reference:		KB = 32' @ 3391.0usft			
Well:		#711H				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)
	10,313.0	0.35	273.82	10,280.8	-178.4	435.9	0.77	-0.74	-19.23	7.2	20.0
	10,408.0	0.62	178.29	10,375.7	-178.9	435.6	0.78	0.28	-100.56	-21.1	5.0
	10,503.0	1.23	134.43	10,470.7	-180.1	436.4	0.94	0.64	-46.17	-20.0	-11.4
	10,599.0	1.58	139.26	10,566.7	-181.9	438.0	0.38	0.36	5.03	-23.3	-9.5
	10,694.0	1.93	189.01	10,661.7	-184.4	438.6	1.59	0.37	52.37	-24.8	12.6
	10,885.0	0.44	258.71	10,852.6	-187.8	437.3	0.96	-0.78	36.49	1.4	30.6
	10,980.0	0.62	311.00	10,947.6	-187.5	436.6	0.52	0.19	55.04	24.3	17.9
	11,076.0	0.62	2.07	11,043.6	-186.6	436.2	0.56	0.00	53.20	28.4	-7.3
	11,171.0	0.88	22.63	11,138.6	-185.4	436.5	0.39	0.27	21.64	22.8	-16.6
	11,266.0	0.44	240.16	11,233.6	-185.0	436.5	1.32	-0.46	-149.97	-7.8	26.6
	11,362.0	0.53	261.96	11,329.6	-185.2	435.7	0.21	0.09	22.71	1.9	27.7
	11,457.0	0.26	281.08	11,424.6	-185.3	435.1	0.28	-0.28	-0.93	0.8	27.8
	11,552.0	0.70	179.34	11,519.6	-185.9	434.9	0.75	0.46	-86.04	-28.0	4.5
	11,681.0	0.70	178.20	11,648.6	-187.5	434.9	0.01	0.00	-0.88	-29.6	4.0
	11,798.0	2.02	161.94	11,765.6	-190.2	435.6	1.16	1.13	-13.90	-32.3	-4.7
	11,827.0	2.78	358.78	11,794.5	-189.9	435.7	16.36	2.60	-562.62	32.1	-5.0
KOP, MD:11827.0, TVD:11794.5, N/S:-189.9, E/W:435.7, INC:2.78											
	11,894.0	13.72	353.10	11,860.8	-180.4	434.7	16.36	16.34	-8.48	23.2	-2.0
	11,989.0	27.96	355.12	11,949.3	-146.9	431.5	15.01	14.99	2.13	1.5	-1.4
	12,066.3	32.85	354.98	12,016.0	-107.9	428.1	6.32	6.32	-0.18	-15.6	0.4
FTP Crossing, MD:12066.3, TVD:12016.0, N/S:-107.9, E/W:428.1, INC:32.85											
	12,085.0	34.03	354.95	12,031.6	-97.6	427.2	6.32	6.32	-0.15	-18.8	1.1
	12,180.0	40.01	355.39	12,107.4	-40.7	422.4	6.30	6.29	0.46	-29.6	5.1
	12,275.0	50.03	358.52	12,174.5	26.4	419.0	10.80	10.55	3.29	-33.3	9.4
FTP(GD 21 FC #711H)											
	12,370.0	61.55	359.31	12,227.8	104.8	417.5	12.15	12.13	0.83	-34.7	10.7
	12,466.0	70.52	359.40	12,266.7	192.4	416.5	9.34	9.34	0.09	-32.7	11.1



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #711H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3391.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3391.0usft
Well:	#711H	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)	
12,561.0	74.57	357.12	12,295.2	283.0	413.8	4.84	4.26	-2.40	-21.3	13.4	
12,657.0	83.89	358.43	12,313.1	377.1	410.1	9.80	9.71	1.36	-5.3	16.4	
12,751.0	85.56	359.66	12,321.8	470.7	408.6	2.20	1.78	1.31	2.6	17.3	
12,847.0	87.14	359.31	12,327.9	566.5	407.7	1.69	1.65	-0.36	8.0	17.5	
12,943.0	88.55	358.43	12,331.5	662.4	405.8	1.73	1.47	-0.92	10.9	18.8	
13,038.0	89.34	357.03	12,333.3	757.3	402.0	1.69	0.83	-1.47	11.9	21.9	
13,133.0	90.13	358.61	12,333.7	852.2	398.4	1.86	0.83	1.66	11.6	24.9	
13,228.0	88.81	358.87	12,334.6	947.2	396.3	1.42	-1.39	0.27	11.8	26.4	
13,324.0	88.37	357.64	12,336.9	1,043.1	393.4	1.36	-0.46	-1.28	13.4	28.7	
13,419.0	87.32	2.92	12,340.5	1,138.0	393.9	5.66	-1.11	5.56	16.3	27.6	
13,514.0	86.97	4.59	12,345.2	1,232.7	400.1	1.79	-0.37	1.76	20.3	20.7	
13,610.0	89.69	1.51	12,348.0	1,328.5	405.2	4.28	2.83	-3.21	22.3	15.0	
13,705.0	90.04	2.13	12,348.3	1,423.4	408.2	0.75	0.37	0.65	21.8	11.4	
13,800.0	86.79	0.90	12,350.9	1,518.3	410.7	3.66	-3.42	-1.29	23.7	8.3	
13,901.4	86.03	2.19	12,357.2	1,619.5	413.5	1.48	-0.75	1.27	29.3	4.9	
TGT#1(GD 21 FC #711H)											
13,917.0	85.91	2.39	12,358.3	1,635.1	414.1	1.48	-0.75	1.27	30.2	4.1	
13,991.0	87.67	2.83	12,362.5	1,708.9	417.4	2.45	2.38	0.59	33.3	0.3	
14,087.0	88.20	3.71	12,365.9	1,804.6	422.9	1.07	0.55	0.92	35.4	-5.8	
14,182.0	85.12	1.60	12,371.5	1,899.4	427.3	3.93	-3.24	-2.22	39.6	-10.9	
14,278.0	87.05	359.40	12,378.0	1,995.1	428.1	3.04	2.01	-2.29	44.8	-12.3	
14,373.0	88.46	358.70	12,381.8	2,090.0	426.6	1.66	1.48	-0.74	47.2	-11.3	
14,468.0	89.78	359.40	12,383.2	2,185.0	425.0	1.57	1.39	0.74	47.3	-10.4	
14,564.0	89.43	359.58	12,383.9	2,281.0	424.1	0.41	-0.36	0.19	46.6	-10.2	
14,659.0	88.81	359.58	12,385.3	2,376.0	423.4	0.65	-0.65	0.00	46.7	-10.1	
14,754.0	88.64	358.79	12,387.4	2,471.0	422.1	0.85	-0.18	-0.83	47.5	-9.4	
14,849.0	88.46	357.91	12,389.9	2,565.9	419.4	0.95	-0.19	-0.93	48.5	-7.2	



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #711H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3391.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3391.0usft
Well:	#711H	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)
14,945.0	87.41	357.82	12,393.3	2,661.8	415.8	1.10	-1.09	-0.09	50.6	-4.3
15,040.0	90.04	359.31	12,395.4	2,756.7	413.4	3.18	2.77	1.57	51.4	-2.6
15,136.0	89.69	359.14	12,395.7	2,852.7	412.1	0.41	-0.36	-0.18	50.3	-1.9
15,231.0	89.43	358.70	12,396.4	2,947.7	410.3	0.54	-0.27	-0.46	49.7	-0.7
15,326.0	89.96	358.17	12,396.9	3,042.6	407.7	0.79	0.56	-0.56	48.8	1.3
15,422.0	88.46	358.43	12,398.2	3,138.6	404.9	1.59	-1.56	0.27	48.8	3.5
15,517.0	88.55	359.22	12,400.7	3,233.5	402.9	0.84	0.09	0.83	49.9	4.8
15,612.0	92.07	0.45	12,400.2	3,328.5	402.7	3.92	3.71	1.29	48.1	4.4
15,707.0	88.64	359.58	12,399.6	3,423.5	402.7	3.72	-3.61	-0.92	46.1	3.8
15,803.0	87.23	358.70	12,403.0	3,519.4	401.2	1.73	-1.47	-0.92	48.2	4.6
15,898.0	86.79	1.33	12,408.0	3,614.3	401.3	2.80	-0.46	2.77	51.8	3.9
15,993.0	89.43	1.86	12,411.1	3,709.2	403.9	2.83	2.78	0.56	53.6	0.6
16,027.8	89.43	3.03	12,411.5	3,743.9	405.4	3.37	0.00	3.37	53.5	-1.1
TGT#2(GD 21 FC #711H)										
16,089.0	89.43	5.10	12,412.1	3,805.0	409.7	3.37	0.00	3.38	53.5	-5.8
16,184.0	90.04	359.21	12,412.5	3,899.9	413.3	6.23	0.64	-6.20	53.0	-10.0
16,279.0	91.71	0.45	12,411.1	3,994.8	413.0	2.19	1.76	1.31	50.7	-10.3
16,374.0	91.54	359.83	12,408.4	4,089.8	413.3	0.68	-0.18	-0.65	47.1	-11.2
16,469.0	89.69	0.36	12,407.4	4,184.8	413.4	2.03	-1.95	0.56	45.2	-12.0
16,514.0	88.20	0.45	12,408.2	4,229.8	413.7	3.32	-3.31	0.20	45.6	-12.6
16,565.0	87.49	0.71	12,410.1	4,280.7	414.2	1.48	-1.39	0.51	47.1	-13.4
16,660.0	86.79	0.97	12,414.9	4,375.6	415.6	0.79	-0.74	0.27	50.9	-15.5
16,756.0	86.97	1.41	12,420.1	4,471.5	417.6	0.49	0.19	0.46	55.3	-18.1
16,851.0	87.23	1.24	12,424.9	4,566.3	419.8	0.33	0.27	-0.18	59.2	-20.9
16,946.0	87.41	1.06	12,429.3	4,661.2	421.7	0.27	0.19	-0.19	62.7	-23.4
17,041.0	93.83	1.68	12,428.3	4,756.1	424.0	6.79	6.76	0.65	60.8	-26.3
17,137.0	85.56	359.92	12,428.8	4,852.0	425.3	8.81	-8.61	-1.83	60.4	-28.3



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #711H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3391.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3391.0usft
Well:	#711H	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)
17,232.0	84.68	359.92	12,436.9	4,946.7	425.2	0.93	-0.93	0.00	67.6	-28.8
17,328.0	90.13	358.95	12,441.2	5,042.5	424.3	5.77	5.68	-1.01	71.1	-28.4
17,423.0	87.93	357.28	12,442.8	5,137.4	421.1	2.91	-2.32	-1.76	71.9	-25.9
17,518.0	89.34	357.81	12,445.1	5,232.3	417.1	1.59	1.48	0.56	73.2	-22.5
17,646.0	89.08	359.13	12,446.9	5,360.3	413.7	1.05	-0.20	1.03	73.8	-19.9
17,759.0	93.83	0.71	12,444.0	5,473.2	413.5	4.43	4.20	1.40	69.8	-20.6
17,805.0	94.26	0.36	12,440.8	5,519.1	413.9	1.20	0.93	-0.76	66.2	-21.3
17,900.0	91.98	0.45	12,435.6	5,613.9	414.6	2.40	-2.40	0.09	60.1	-22.5
17,995.0	91.80	1.24	12,432.5	5,708.9	416.0	0.85	-0.19	0.83	56.1	-24.6
18,091.0	90.48	357.19	12,430.5	5,804.8	414.7	4.44	-1.37	-4.22	53.3	-23.8
18,176.0	91.35	357.27	12,429.2	5,889.7	410.6	1.03	1.02	0.09	51.2	-20.3
TGT#3(GD 21 FC #711H)										
18,186.0	91.45	357.28	12,428.9	5,899.7	410.1	1.03	1.02	0.09	50.9	-19.9
18,281.0	88.29	356.31	12,429.2	5,994.5	404.8	3.48	-3.33	-1.02	50.5	-15.2
18,376.0	87.93	356.31	12,432.3	6,089.3	398.7	0.38	-0.38	0.00	53.1	-9.7
18,471.0	85.47	356.31	12,437.8	6,183.9	392.6	2.59	-2.59	0.00	58.0	-4.2
18,567.0	92.77	357.72	12,439.2	6,279.7	387.6	7.74	7.60	1.47	58.9	0.1
18,662.0	93.47	357.98	12,434.1	6,374.5	384.0	0.79	0.74	0.27	53.2	3.1
18,757.0	91.98	357.81	12,429.5	6,469.3	380.5	1.58	-1.57	-0.18	48.1	5.9
18,852.0	91.10	357.37	12,427.0	6,564.2	376.5	1.04	-0.93	-0.46	45.0	9.3
18,948.0	90.22	355.96	12,425.9	6,660.0	371.0	1.73	-0.92	-1.47	43.4	14.2
19,043.0	90.22	0.01	12,425.5	6,755.0	367.6	4.26	0.00	4.26	42.5	17.0
19,138.0	90.48	0.36	12,424.9	6,850.0	367.9	0.46	0.27	0.37	41.3	16.0
19,234.0	91.45	0.62	12,423.3	6,945.9	368.7	1.05	1.01	0.27	39.1	14.6
19,329.0	89.25	3.08	12,422.7	7,040.9	371.8	3.47	-2.32	2.59	38.0	10.9
19,424.0	88.84	5.28	12,424.5	7,135.6	378.7	2.40	-0.64	2.32	39.2	3.3
19,519.0	83.36	3.26	12,431.1	7,230.1	385.8	5.95	-5.56	-2.13	45.3	-4.4



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #711H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3391.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3391.0usft
Well:	#711H	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)
19,615.0	91.54	2.38	12,435.4	7,325.8	390.5	8.57	8.52	-0.92	49.0	-9.7
19,710.0	90.04	1.41	12,434.1	7,420.7	393.6	1.88	-1.58	-1.02	47.1	-13.4
19,805.0	91.98	1.32	12,432.4	7,515.7	395.9	2.04	2.04	-0.09	44.9	-16.3
Last MWD Survey (MD=19805.0)										
19,891.0	91.88	1.32	12,429.4	7,601.6	397.9	0.00	0.00	0.00	41.4	-18.9
Projection to Bit (MD=19891.0) - PBHL(GD 21 FC #711H)										

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,827.0	11,794.5	-189.9	435.7	KOP, MD:11827.0', TVD:11794.5', N/S:-189.9', E/W:435.7', INC:2.78
12,066.3	12,016.0	-107.9	428.1	FTP Crossing, MD:12066.3', TVD:12016.0', N/S:-107.9', E/W:428.1', INC:32.85
19,805.0	12,432.4	7,515.7	395.9	Last MWD Survey (MD=19805.0')
19,891.0	12,429.4	7,601.6	397.9	Projection to Bit (MD=19891.0')

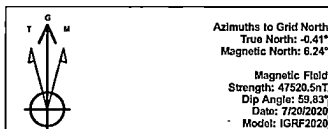
Checked By: _____ Approved By: _____ Date: _____

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 #711H
Plan #2



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.24°
Magnetic Field
Strength: 47520.5nT
Dip Angle: 59.83°
Date: 7/20/2020
Model: IGRF2020

To convert a Magnetic Direction to a Grid Direction, Add 6.24°
To convert a Magnetic Direction to a True Direction, Add 6.64° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1960
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #711H

KB = 32' @ 3391.0usft 3359.0
Northing 404359.00 Easting 777288.00 Latitude 32° 6' 33.729 N Longitude 103° 34' 16.482 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	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	1475.2	5.50	110.18	1474.8	-4.6	12.4	2.00	110.18	-3.9	
4	5976.4	5.50	110.18	5955.2	-153.4	417.6	0.00	0.00	-132.5	
5	6251.6	0.00	0.00	6230.0	-158.0	430.0	2.00	180.00	-136.4	
6	11862.1	0.00	0.00	11840.5	-158.0	430.0	0.00	0.00	-136.4	
7	12608.4	89.56	359.62	12318.0	315.8	426.9	12.00	359.62	336.6	
8	13913.9	89.56	359.62	12328.0	1621.2	418.3	0.00	0.00	1640.0	TGT#1(GD 21 FC #711H)
9	13932.4	89.19	359.62	12328.2	1639.7	418.2	2.00	180.00	1658.5	
10	16037.5	89.19	359.62	12358.0	3744.5	404.4	0.00	0.00	3760.0	TGT#2(GD 21 FC #711H)
11	16051.3	89.47	359.62	12358.2	3758.4	404.3	2.00	0.00	3773.8	
12	18181.0	89.47	359.62	12378.0	5887.9	390.3	0.00	0.00	5900.0	TGT#3(GD 21 FC #711H)
13	18191.0	89.67	359.62	12378.1	5897.9	390.2	2.00	0.00	5910.0	
14	19896.2	89.67	359.62	12386.0	7603.0	379.0	0.00	0.00	7612.4	PBHL(GD 21 FC #711H)

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 #711H)	7527.0	-158.0	430.0	404291.00	777728.00
FTP(GD 21 FC #711H)	12318.0	-108.0	430.0	404251.00	777728.00
TGT#1(GD 21 FC #711H)	12318.0	1621.2	418.3	403980.30	777716.31
TGT#2(GD 21 FC #711H)	12358.0	3744.5	404.4	408163.50	777702.35
TGT#3(GD 21 FC #711H)	12378.0	5887.9	390.3	410246.90	777688.27
PBHL(GD 21 FC #711H)	12386.0	7603.0	379.0	411952.00	777677.00

