

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 30-025-47180		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 720H
⁷ OGRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3360'

¹⁰Surface Location

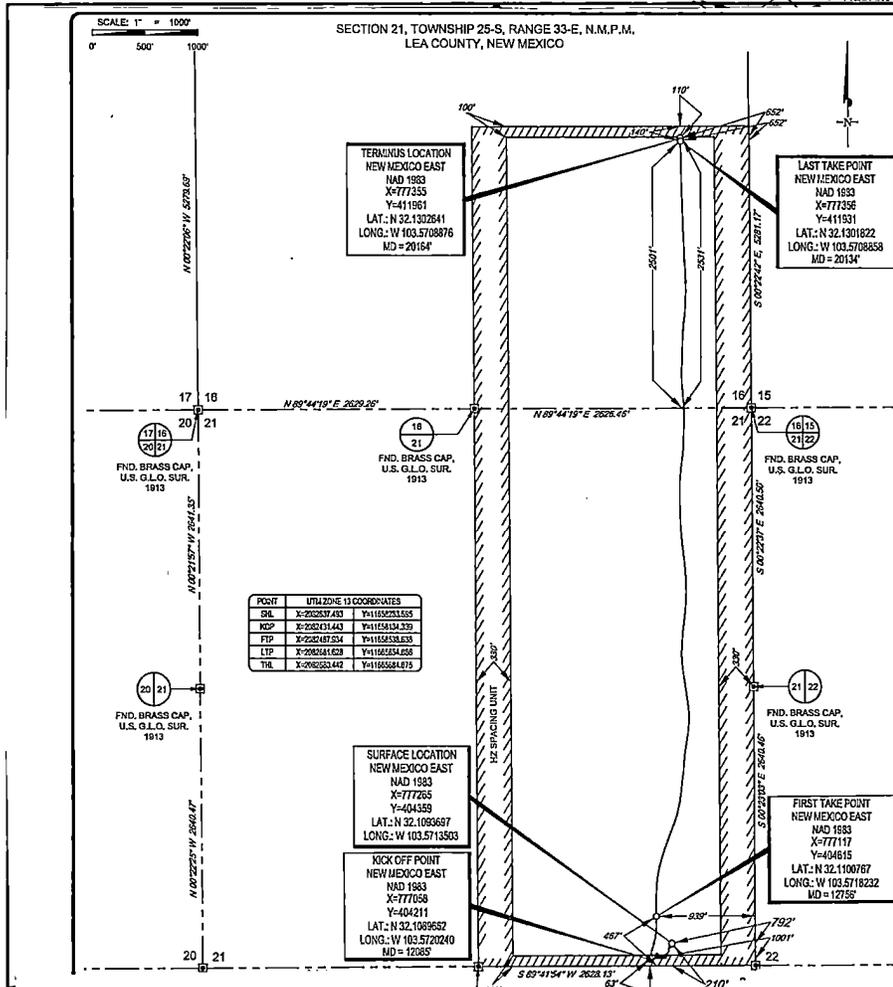
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	21	25-S	33-E	-	210'	SOUTH	792'	EAST	LEA

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	652'	EAST	LEA

¹² Dedicated Acres 480.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

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.

Signature: Kay Maddox Date: 11/11/2020

Printed Name: KAY MADDOX

E-mail Address: kay_maddox@eogresources.com

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.

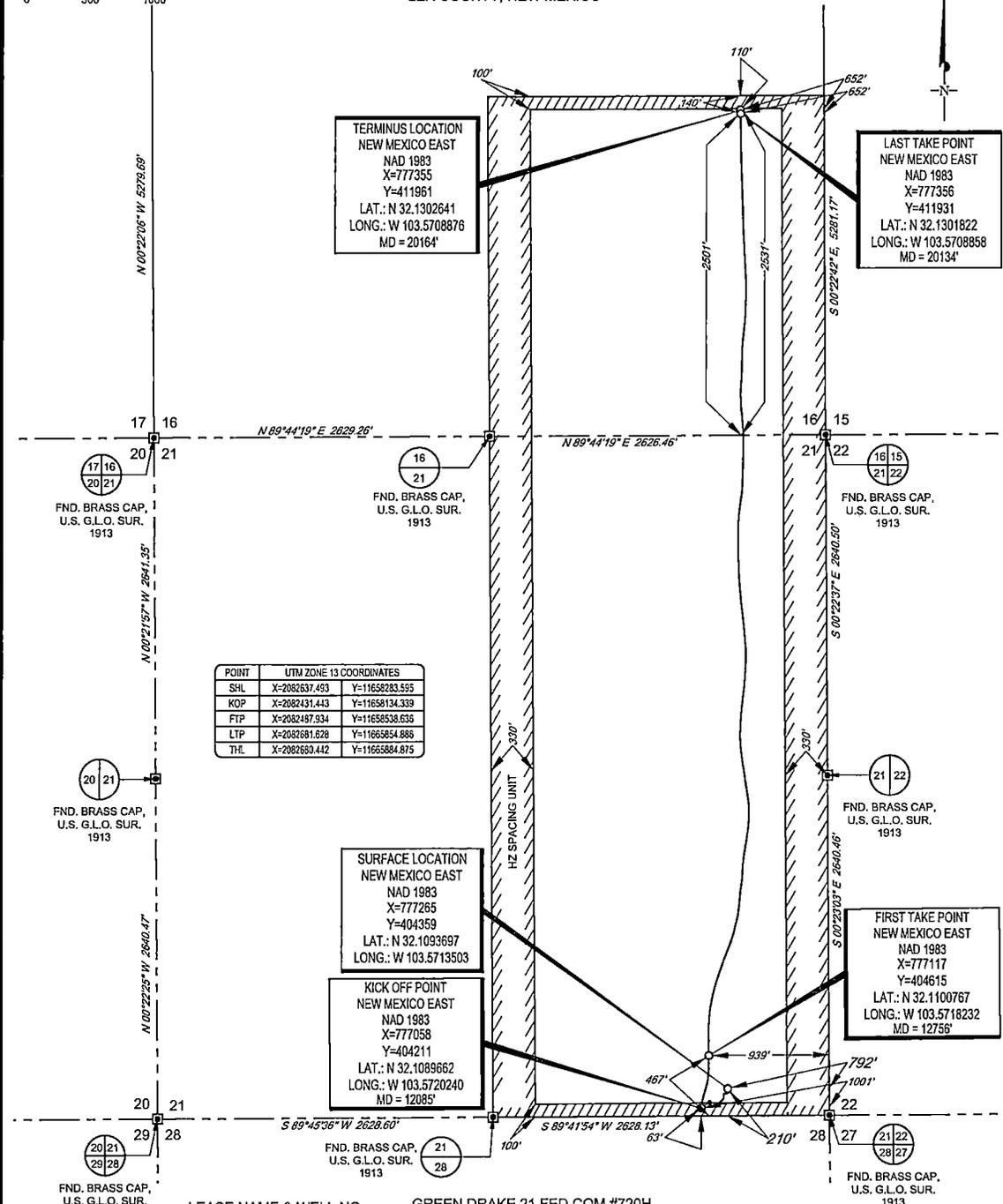
Date of Survey: 04/20/2020

Signature and Seal of Professional Surveyor: [Signature]

Certificate Number: 24508

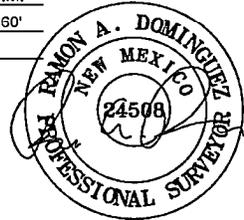
SCALE: 1" = 1000'
 0' 500' 1000'

SECTION 21, TOWNSHIP 25-S, RANGE 33-E, N.M.P.M.
 LEA COUNTY, NEW MEXICO



POINT	UTM ZONE 13 COORDINATES	
SHL	X=2082637.493	Y=11658283.595
KOP	X=2082431.443	Y=11658134.339
FTP	X=2082487.934	Y=11658538.635
LTP	X=2082681.628	Y=11658654.886
THL	X=2082650.442	Y=11658804.875

LEASE NAME & WELL NO.: GREEN DRAKE 21 FED COM #720H
 SECTION 21 TWP 25-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3360'
 DESCRIPTION 210' FSL & 792' FEL



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY
 1400 EVERMAN PARKWAY, Ste. 140 - FT. WORTH, TEXAS 76140
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7534
 TEXAS FIRM REGISTRATION NO. 10042504
 WWW.TOPOGRAPHIC.COM

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

EOG resources, inc.

GREEN DRAKE 21 FED COM #720H AS-COMPLETED	REVISION:
DATE: 10/29/2020	
FILE: AD_GREEN_DRAKE_21_FED_COM_720H	
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 # 30-025-47180		
Operator Name: EOG RESOURCES, INC	Property Name: GREEN DRAKE 21 FEDERAL COM	Well Number 720H

Kick Off Point (KOP)

UL P	Section 21	Township 25S	Range 33E	Lot	Feet 63	From N/S SOUTH	Feet 1001	From E/W EAST	County LEA
Latitude 32.1089662					Longitude 103.5720240				NAD 1983

First Take Point (FTP)

UL P	Section 21	Township 25S	Range 33E	Lot	Feet 467	From N/S SOUTH	Feet 939	From E/W EAST	County LEA
Latitude 32.1100767					Longitude 103.5718232				NAD 1983

Last Take Point (LTP)

UL I	Section 16	Township 25S	Range 33E	Lot	Feet 2501	From N/S SOUTH	Feet 652	From E/W EAST	County LEA
Latitude 32.1301822					Longitude 103.5708858				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



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Green Drake 21 Fed Com

#720H

OH

Design: OH

Midland PVA

14 July, 2020



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #720H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3392.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3392.0usft
Well:	#720H	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	Latitude:	32.1095429°N
From:	Map	Easting:	775,848.00 usft	Longitude:	103.5759265°W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 "

Well:	#720H					
Well Position	+N-S	0.0 usft	Northing:	404,359.00 usft	Latitude:	32.1093697°N
	+E-W	0.0 usft	Easting:	777,265.00 usft	Longitude:	103.5713515°W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,360.0 usft

Wellbore:	OH					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	IGRF2020	5/29/2020	6.66	59.83	47,535.36989690	

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	0.62	

Survey Program	Date	7/14/2020			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
163.0	20,164.0	Dritech MVD (OH)	EOG MWD+IFR1	MWD + IFR1	

MD (usft)	Inc (")	Azi (azimuth)	TVD (usft)	N/S (usft)	EW (usft)	Dleg (usft)	Build (usft)	Turn (usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0
163.0	1.67	148.67	163.0	-2.0	1.2	1.2	1.02	1.02	0.00	0.0
301.0	2.20	149.64	300.9	-6.0	3.6	3.6	0.38	0.38	0.70	0.1
486.0	1.67	151.22	485.8	-11.5	6.7	6.7	-0.29	-0.29	-13.3	0.4
579.0	1.41	154.65	578.8	-13.7	7.9	7.9	-0.28	-0.28	-15.7	1.2
674.0	1.58	154.12	673.7	-15.9	8.9	8.9	0.18	0.18	-18.2	1.1
769.0	1.14	138.30	768.7	-17.8	10.1	10.1	-0.46	-0.46	-16.65	-4.3
864.0	0.88	128.37	863.7	-19.0	11.3	11.3	-0.27	-0.27	-10.45	-7.8
960.0	0.79	137.95	959.7	-19.9	12.3	12.3	-0.17	-0.17	-9.98	-4.2
1,082.0	0.62	131.79	1,081.7	-21.0	13.4	13.4	-0.14	-0.14	-8.05	-6.7
1,162.0	0.26	118.61	1,161.7	-21.3	13.9	13.9	-0.45	-0.45	-16.47	-12.1
1,257.0	0.18	93.56	1,256.7	-21.5	14.2	14.2	-0.13	-0.13	-26.37	-20.5
1,352.0	0.44	91.98	1,351.7	-21.5	14.7	14.7	0.27	0.27	-1.66	-21.0
1,443.0	0.26	93.39	1,442.7	-21.5	15.9	15.9	-0.09	-0.09	0.74	-20.6
1,538.0	0.79	237.79	1,537.7	-21.9	15.6	15.6	0.07	0.07	152.00	26.7
1,734.0	3.78	234.19	1,733.6	-24.1	12.4	12.4	3.12	3.12	-3.75	26.1
1,829.0	3.78	237.00	1,828.4	-27.6	7.3	7.3	0.19	0.00	2.96	24.8
1,924.0	3.78	242.80	1,923.2	-30.8	1.9	1.9	0.40	0.00	6.11	22.9
2,020.0	3.61	245.79	2,019.0	-33.5	-3.7	-3.7	0.27	-0.18	3.11	20.6
2,115.0	3.52	246.49	2,113.8	-35.8	-9.1	-9.1	0.11	-0.09	0.74	18.1
2,211.0	3.43	247.90	2,209.6	-38.1	-14.5	-14.5	0.13	-0.09	1.47	15.5
2,306.0	2.81	259.32	2,304.5	-39.6	-19.4	-19.4	0.92	-0.65	12.02	12.1
2,401.0	2.11	274.97	2,399.4	-39.9	-23.4	-23.4	1.01	-0.74	16.47	6.7
2,592.0	0.97	313.02	2,590.3	-38.5	-28.1	-28.1	0.77	-0.60	19.92	-7.8
2,687.0	0.35	254.05	2,685.3	-38.0	-29.0	-29.0	0.89	-0.65	-62.07	-4.4
2,782.0	0.79	146.56	2,780.3	-38.6	-28.9	-28.9	1.01	0.46	-113.15	19.0
2,878.0	1.67	170.55	2,876.3	-40.6	-28.3	-28.3	1.04	0.92	24.99	21.6

Survey

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Green Drake 21 Fed Com
 Well: #720H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well #720H
 KB = 32' @ 3392.0usft
 EDM
 Minimum Curvature





EOG Resources
Midland PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Green Drake 21 Fed Com
 Well: #720H
 Wellbore: OH
 Design: OH
 Local Co-ordinate Reference: Well #720H
 TVD Reference: KB = 32' @ 3392.0usft
 MD Reference: EDM
 North Reference: Gnd
 Survey Calculation Method: Minimum Curvature
 Database: EDM

MD (usft)	Inc (")	Azi (azimuth)	TVD (usft)	N/S (usft)	EW (usft)	Dleg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	Hght to Plan (usft)	Right to Plan (usft)
2,973.0	3.43	188.85	2,971.2	-44.6	-29.0	2.22	1.85	29.79	20.9	16.8
3,069.0	3.17	181.54	3,067.0	-50.0	-30.0	1.07	0.64	-18.03	14.1	25.2
3,164.0	3.78	185.49	3,161.8	-55.7	-30.4	0.69	0.64	4.16	14.7	27.7
3,259.0	4.40	175.90	3,256.6	-62.5	-30.4	1.00	0.65	-10.73	6.9	33.5
3,355.0	3.25	176.71	3,352.4	-68.9	-29.9	1.20	-1.20	1.47	5.5	37.5
3,450.0	5.19	212.39	3,447.1	-75.2	-32.1	3.34	2.04	37.56	25.5	29.7
3,545.0	5.80	227.77	3,541.7	-82.0	-37.9	1.67	0.64	16.19	29.3	22.4
3,641.0	7.03	229.88	3,637.1	-89.1	-46.0	1.30	1.28	2.20	25.1	20.6
3,736.0	6.77	226.54	3,731.4	-96.7	-54.5	0.50	-0.27	-3.52	18.2	21.2
3,831.0	6.77	230.14	3,825.8	-104.1	-62.9	0.45	0.00	3.79	14.1	19.4
3,927.0	7.39	247.37	3,921.0	-110.1	-72.9	2.29	0.65	17.95	12.8	13.5
4,022.0	7.03	244.65	4,015.3	-115.0	-83.8	0.52	-0.38	-2.86	5.6	11.5
4,117.0	7.65	241.92	4,109.5	-120.4	-94.6	0.75	0.65	-2.87	-1.7	9.4
4,213.0	7.83	255.46	4,204.6	-125.1	-106.6	1.90	0.19	14.10	-7.4	7.8
4,308.0	6.33	267.58	4,298.9	-126.9	-118.1	2.22	-1.58	12.76	-13.2	6.3
4,404.0	4.92	284.72	4,394.5	-126.1	-127.4	2.27	-1.47	17.85	-17.3	6.3
4,499.0	4.48	298.08	4,489.1	-123.3	-134.6	1.24	-0.46	14.06	-21.7	5.4
4,594.0	2.37	267.21	4,584.0	-122.0	-139.8	3.27	-2.22	-43.02	-20.1	-15.9
4,690.0	0.97	170.55	4,679.9	-123.3	-141.6	2.61	-1.46	-90.27	17.5	-18.4
4,785.0	1.41	108.24	4,774.9	-124.4	-140.3	1.36	0.46	-65.59	20.6	11.6
4,880.0	1.23	99.80	4,869.9	-125.0	-138.2	0.28	-0.19	-8.88	13.5	19.2
4,976.0	0.70	159.74	4,965.9	-125.7	-137.0	1.11	-0.55	62.44	25.1	4.0
5,071.0	0.79	175.65	5,060.9	-126.9	-136.8	0.24	0.09	16.75	28.1	1.2
5,167.0	0.70	176.79	5,156.9	-128.1	-136.7	0.10	-0.09	1.19	30.9	4.7
5,262.0	0.18	120.90	5,251.9	-128.8	-136.5	0.65	-0.55	-58.83	12.4	30.9
5,357.0	1.67	25.71	5,346.9	-127.6	-135.8	1.79	1.57	-100.20	-33.7	9.3
5,453.0	1.49	36.87	5,442.8	-125.4	-134.4	0.37	-0.19	11.62	-33.9	15.9



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #720H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3392.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3392.0usft
Well:	#720H	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)
5,548.0	1.41	34.94	5,537.8	-123.4	-133.0	0.10	-0.08	-2.03	-36.8	14.7
5,643.0	1.06	26.94	5,632.8	-121.7	-131.9	0.41	-0.37	-8.42	-40.5	9.3
5,739.0	0.97	34.67	5,728.8	-120.2	-131.1	0.17	-0.09	8.05	-40.6	14.8
5,834.0	1.06	25.62	5,823.7	-118.8	-130.2	0.19	0.09	-9.53	-44.1	8.1
5,929.0	1.14	6.99	5,918.7	-117.0	-129.8	0.38	0.08	-19.61	-46.1	-6.7
6,025.0	1.14	358.02	6,014.7	-115.1	-129.7	0.19	0.00	-9.34	-46.4	-13.9
6,120.0	1.14	349.85	6,109.7	-113.2	-129.9	0.17	0.00	-8.60	-45.9	-20.5
6,216.0	1.23	349.94	6,205.7	-111.3	-130.2	0.09	0.09	0.09	-47.9	-20.5
6,311.0	1.23	337.11	6,300.6	-109.3	-130.8	0.29	0.00	-13.51	-44.1	-30.8
6,407.0	1.14	337.90	6,396.6	-107.5	-131.6	0.10	-0.09	0.82	-46.6	-30.2
6,502.0	1.14	342.64	6,491.6	-105.7	-132.2	0.10	0.00	4.99	-50.8	-26.2
6,597.0	1.41	342.29	6,586.6	-103.7	-132.8	0.28	0.28	-0.37	-52.7	-26.5
6,692.0	1.41	344.05	6,681.5	-101.5	-133.5	0.05	0.00	1.85	-55.8	-24.8
6,788.0	1.14	340.36	6,777.5	-99.4	-134.1	0.29	-0.28	-3.84	-56.3	-28.4
6,883.0	1.23	329.28	6,872.5	-97.7	-135.0	0.26	0.09	-11.66	-51.7	-38.9
6,979.0	1.06	333.85	6,968.5	-96.0	-135.9	0.20	-0.18	4.76	-56.6	-34.6
7,074.0	1.06	320.67	7,063.5	-94.5	-136.8	0.26	0.00	-13.87	-48.9	-46.8
7,169.0	0.79	322.16	7,158.5	-93.3	-137.8	0.29	-0.28	1.57	-51.7	-45.4
7,265.0	0.62	308.89	7,254.4	-92.5	-138.6	0.24	-0.18	-13.82	-41.0	-56.2
7,360.0	0.62	291.32	7,349.4	-92.0	-139.5	0.20	0.00	-18.49	-23.1	-66.1
7,456.0	0.79	302.13	7,445.4	-91.4	-140.5	0.22	0.18	11.26	-36.3	-60.5
7,522.4	0.69	275.64	7,511.8	-91.2	-141.3	0.53	-0.15	-39.91	-6.3	-70.6
Brushy Top(GD 21 FC #710H)										
7,551.0	0.70	263.10	7,540.4	-91.2	-141.7	0.53	0.03	-43.80	8.8	-70.3
7,646.0	0.70	238.40	7,635.4	-91.5	-142.7	0.32	0.00	-26.00	36.3	-60.4
7,741.0	0.44	295.71	7,730.4	-91.7	-143.6	0.62	-0.27	60.33	-31.9	-62.7
7,837.0	0.44	303.27	7,826.4	-91.3	-144.2	0.06	0.00	7.87	-40.6	-57.9



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #720H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3392.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3392.0usft
Well:	#720H	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)
7,932.0	0.35	271.54	7,921.4	-91.1	-144.8	0.24	-0.09	-33.40	-4.7	-70.8
8,027.0	0.44	208.43	8,016.4	-91.4	-145.3	0.44	0.09	-66.43	60.5	-36.5
8,122.0	0.62	218.63	8,111.4	-92.1	-145.8	0.21	0.19	10.74	52.2	-46.6
8,218.0	0.70	193.40	8,207.4	-93.1	-146.2	0.31	0.08	-26.28	66.0	-20.1
8,313.0	1.06	200.61	8,302.4	-94.5	-146.7	0.40	0.38	7.59	61.5	-28.1
8,408.0	0.97	199.91	8,397.4	-96.1	-147.2	0.10	-0.09	-0.74	60.2	-27.4
8,503.0	1.06	207.12	8,492.4	-97.6	-147.9	0.16	0.09	7.59	54.6	-34.6
8,598.0	1.23	203.86	8,587.3	-99.3	-148.7	0.19	0.18	-3.43	54.6	-31.5
8,693.0	1.41	200.52	8,682.3	-101.4	-149.6	0.21	0.19	-3.52	54.1	-28.3
8,789.0	1.58	197.27	8,778.3	-103.7	-150.4	0.20	0.18	-3.39	53.2	-25.3
8,884.0	1.67	198.68	8,873.2	-106.3	-151.2	0.10	0.09	1.48	49.8	-26.6
8,979.0	1.58	206.41	8,968.2	-108.8	-152.2	0.25	-0.09	8.14	43.1	-32.8
9,075.0	1.41	189.10	9,064.2	-111.1	-153.0	0.50	-0.18	-18.03	48.5	-18.9
9,170.0	1.06	182.59	9,159.2	-113.2	-153.2	0.40	-0.37	-6.85	48.3	-13.4
9,265.0	1.06	222.85	9,254.1	-114.7	-153.9	0.77	0.00	42.38	26.6	-40.9
9,361.0	1.32	235.33	9,350.1	-116.0	-155.4	0.38	0.27	13.00	15.2	-45.5
9,456.0	2.46	231.90	9,445.1	-117.8	-157.9	1.21	1.20	-3.61	14.7	-44.5
9,551.0	2.55	242.54	9,540.0	-120.1	-161.4	0.50	0.09	11.20	2.2	-46.1
9,646.0	3.17	271.98	9,634.9	-121.0	-165.9	1.65	0.65	30.99	-25.2	-40.2
9,741.0	2.64	258.44	9,729.7	-121.3	-170.6	0.91	-0.56	-14.25	-19.9	-45.6
9,837.0	2.55	205.71	9,825.7	-123.7	-173.7	2.40	-0.09	-54.93	20.8	-45.2
9,932.0	2.73	197.54	9,920.6	-127.7	-175.3	0.44	0.19	-8.60	22.6	-42.1
10,028.0	2.64	176.97	10,016.4	-132.1	-175.9	1.00	-0.09	-21.43	31.6	-32.3
10,123.0	2.73	139.62	10,111.4	-136.0	-174.3	1.81	0.09	-39.32	40.7	-7.8
10,218.0	2.11	211.60	10,206.3	-139.2	-173.8	3.04	-0.65	75.77	2.7	-39.0
10,314.0	2.11	252.03	10,302.2	-141.3	-176.4	1.52	0.00	42.11	-26.3	-30.3
10,504.0	1.58	276.02	10,492.1	-142.1	-182.3	0.49	-0.28	12.63	-42.2	-15.6



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #720H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3392.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3392.0usft
Well:	#720H	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)
10,600.0	1.93	238.32	10,588.1	-142.8	-185.0	1.23	0.36	-39.27	-26.5	-38.9
10,695.0	2.02	236.38	10,683.0	-144.6	-187.7	0.12	0.09	-2.04	-28.4	-39.8
10,791.0	2.29	227.24	10,779.0	-146.8	-190.6	0.45	0.28	-9.52	-25.3	-44.1
10,886.0	2.11	227.77	10,873.9	-149.3	-193.2	0.19	-0.19	0.56	-29.4	-43.9
10,981.0	2.55	231.11	10,968.8	-151.8	-196.2	0.48	0.46	3.52	-35.7	-42.0
11,076.0	1.41	205.45	11,063.8	-154.2	-198.3	1.49	-1.20	-27.01	-17.1	-54.2
11,172.0	1.41	170.11	11,159.7	-156.4	-198.6	0.89	0.00	-36.81	15.2	-54.8
11,267.0	1.85	222.58	11,254.7	-158.7	-199.5	1.57	0.46	55.23	-36.4	-44.6
11,363.0	1.85	251.50	11,350.6	-160.3	-202.0	0.96	0.00	30.12	-56.4	-20.6
11,458.0	0.26	281.36	11,445.6	-160.8	-203.7	1.72	-1.67	31.43	-60.7	10.9
11,553.0	0.97	354.07	11,540.6	-159.9	-204.0	0.98	0.75	76.54	-8.5	61.4
11,649.0	1.67	349.50	11,636.6	-157.7	-204.3	0.74	0.73	-4.76	-15.5	60.5
11,744.0	1.23	352.75	11,731.6	-154.9	-204.8	0.39	-0.38	2.83	-15.0	61.4
11,839.0	1.49	342.73	11,825.5	-152.7	-205.3	0.37	0.27	-10.55	-27.7	57.6
11,934.0	1.23	333.33	11,920.5	-150.6	-206.1	0.36	-0.27	-9.79	-39.0	52.1
12,029.0	0.97	325.68	11,915.5	-150.0	-206.4	0.93	-0.81	-23.91	-46.2	46.4
12,124.0	1.67	327.26	12,109.5	-148.3	-207.6	0.76	0.76	1.72	-47.0	47.7
12,219.0	2.42	340.99	12,203.5	-148.1	-207.6	14.91	12.57	228.86	-34.5	57.5
KOP, MD:12085.0, TVD:12072.5, N/S:-148.1, E/W:-207.6, INC:2.42										
12,174.0	15.48	3.39	12,160.2	-134.4	-207.6	14.91	14.67	25.17	-16.5	66.6
12,246.6	22.36	10.60	12,228.9	-111.1	-204.4	9.99	9.47	9.93	-14.3	65.8
FTP Crossing, MD:12246.6, TVD:12228.9, N/S:-111.1, E/W:-204.4, INC:22.36										
12,270.0	24.62	12.09	12,250.3	-101.9	-202.6	9.99	9.66	6.36	-14.3	64.5
12,365.0	34.65	16.57	12,332.8	-56.6	-190.7	10.81	10.56	4.72	-15.1	53.7
12,460.0	47.84	17.36	12,404.1	3.2	-172.4	13.89	13.88	0.83	-20.3	35.0
12,524.5	52.28	12.59	12,445.5	50.9	-159.7	8.92	6.89	-7.39	-23.1	20.7
FTP(GD 21 FC #710H)										



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #720H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3392.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3392.0usft
Well:	#720H	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)
12,556.0	54.52	10.47	12,464.3	75.7	-154.7	8.92	7.10	-6.73	-22.4	14.9
12,651.0	63.93	359.05	12,512.9	156.8	-148.3	14.29	9.91	-12.02	-15.5	6.3
12,747.0	73.78	1.07	12,547.5	246.2	-148.2	10.45	10.26	2.10	-3.8	6.2
12,842.0	87.14	358.17	12,563.2	339.7	-148.8	14.38	14.06	-3.05	6.5	7.1
12,937.0	97.25	0.01	12,559.6	434.5	-150.4	10.82	10.64	1.94	2.2	12.3
13,033.0	93.56	3.26	12,550.6	530.0	-147.6	5.11	-3.84	3.39	-7.7	18.1
13,128.0	90.22	8.71	12,547.4	624.3	-137.7	6.73	-3.52	5.74	-11.7	21.3
13,223.0	85.82	12.32	12,550.7	717.6	-120.4	5.99	-4.63	3.80	-9.2	21.6
13,318.0	86.44	17.33	12,557.1	809.2	-96.2	5.30	0.65	5.27	-3.6	19.5
13,414.0	92.59	19.70	12,557.9	900.2	-65.7	6.87	6.41	2.47	-3.7	15.9
13,509.0	87.76	20.40	12,557.6	989.4	-33.1	5.14	-5.08	0.74	-4.7	14.5
13,604.0	83.27	21.02	12,565.1	1,078.0	0.3	4.77	-4.73	0.65	1.9	13.3
13,700.0	85.21	17.94	12,574.7	1,168.0	32.2	3.78	2.02	-3.21	10.7	10.7
13,754.5	87.58	15.93	12,578.1	1,220.0	48.0	5.70	4.35	-3.70	13.6	9.5
TGT#1(GD 21 FC #710H)										
13,795.0	89.34	14.43	12,579.2	1,259.1	58.6	5.70	4.35	-3.69	14.3	8.8
13,890.0	88.81	11.00	12,580.8	1,351.8	79.5	3.65	-0.56	-3.61	15.0	7.9
13,986.0	87.58	2.03	12,583.8	1,447.0	90.4	9.43	-1.28	-9.34	17.1	12.6
14,081.0	89.08	9.59	12,586.6	1,541.4	100.0	8.11	1.58	7.96	19.0	13.6
14,176.0	89.43	4.58	12,587.8	1,635.7	111.7	5.29	0.37	-5.27	19.3	7.8
14,272.0	87.85	0.10	12,590.1	1,731.5	115.6	4.95	-1.65	-4.67	20.6	5.1
14,367.0	88.90	12.23	12,592.8	1,825.8	125.8	12.81	1.11	12.77	22.4	-5.6
14,463.0	87.93	9.07	12,595.4	1,920.0	143.6	3.44	-1.01	-3.29	24.1	-24.0
14,558.0	86.61	7.13	12,600.0	2,014.0	156.9	2.47	-1.39	-2.04	27.6	-38.1
14,653.0	89.34	2.12	12,603.3	2,108.6	164.6	6.00	2.87	-5.27	30.1	-46.3
14,748.0	89.34	355.44	12,604.4	2,203.5	162.6	7.03	0.00	-7.03	30.3	-44.8
14,823.0	89.16	350.26	12,605.4	2,277.9	153.2	6.91	-0.24	-6.91	30.8	-35.8



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #720H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3392.0usft
Site:	Green Drake 21 Fed Corn	MD Reference:	KB = 32' @ 3392.0usft
Well:	#720H	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)
14,918.0	89.25	352.02	12,608.7	2,371.7	138.6	1.85	0.09	1.85	31.0	-21.9
15,014.0	88.72	351.05	12,608.4	2,466.7	124.5	1.15	-0.55	-1.01	31.6	-8.4
15,109.0	86.17	350.70	12,612.6	2,560.4	109.4	2.71	-2.68	-0.37	34.9	5.9
15,225.0	87.49	356.76	12,619.1	2,675.4	96.8	5.34	1.14	5.22	40.2	17.8
15,300.0	87.58	0.10	12,622.3	2,750.3	94.7	4.45	0.12	4.45	42.7	19.3
15,395.0	88.20	4.59	12,625.8	2,845.2	98.6	4.77	0.65	4.73	45.2	14.7
15,490.0	87.67	3.53	12,629.2	2,939.9	105.3	1.25	-0.56	-1.12	47.7	7.4
15,585.0	90.40	9.68	12,630.8	3,034.2	116.3	7.08	2.87	6.47	48.4	-4.1
15,681.0	87.05	4.76	12,633.0	3,129.3	128.3	6.20	-3.49	-5.12	49.5	-16.8
15,808.0	88.90	2.12	12,637.4	3,256.0	135.9	2.54	1.46	-2.08	52.8	-25.3
15,903.0	91.19	1.16	12,637.4	3,351.0	138.6	2.61	2.41	-1.01	51.8	-28.6
15,967.0	90.13	356.41	12,636.6	3,414.9	137.3	7.60	-1.66	-7.42	50.4	-27.6
16,062.0	90.04	356.32	12,636.5	3,509.7	131.3	0.13	-0.09	-0.09	49.3	-22.2
16,157.0	90.04	352.72	12,636.4	3,604.3	122.2	3.79	0.00	-3.79	48.3	-13.7
16,253.0	90.75	353.78	12,635.8	3,699.6	110.9	1.33	0.74	1.10	46.7	-3.1
16,348.0	91.19	354.04	12,634.2	3,794.1	100.8	0.54	0.46	0.27	44.1	6.3
16,443.0	89.96	354.83	12,633.2	3,888.6	91.6	1.54	-1.29	0.83	42.2	14.8
16,538.0	89.87	358.35	12,633.3	3,983.4	86.0	3.71	-0.09	3.71	41.4	19.9
16,634.0	85.74	358.43	12,637.0	4,079.3	83.3	4.30	-4.30	0.08	44.1	22.0
16,729.0	85.03	357.73	12,644.7	4,173.9	80.1	1.05	-0.75	-0.74	50.8	24.6
16,824.0	85.03	359.84	12,652.9	4,268.6	78.1	2.21	0.00	2.22	58.1	25.9
16,920.0	86.79	1.86	12,659.7	4,364.3	79.5	2.79	1.83	2.10	64.1	23.8
17,015.0	88.02	5.99	12,664.0	4,459.0	86.0	4.53	1.29	4.35	67.5	16.5
17,110.0	88.11	7.40	12,667.3	4,553.2	97.1	1.49	0.09	1.48	69.7	4.8
17,206.0	91.45	6.78	12,667.6	4,648.5	108.9	3.54	3.48	-0.65	69.1	-7.5
17,321.0	89.08	359.14	12,667.1	4,763.3	114.9	6.96	-2.06	-6.64	67.4	-14.2
17,397.0	90.57	2.04	12,667.3	4,839.2	115.7	4.29	1.96	3.82	66.9	-15.5



EOG Resources
Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #720H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 32' @ 3392.0usft
Site:	Green Drake 21 Fed Com	MD Reference:	KB = 32' @ 3392.0usft
Well:	#720H	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)
17,522.0	90.84	0.10	12,665.8	4,964.2	118.0	1.57	0.22	-1.55	64.1	-18.7
17,587.0	91.45	1.07	12,664.5	5,029.2	118.6	1.76	0.94	1.49	62.2	-19.8
17,657.2	89.01	357.91	12,664.2	5,099.3	118.0	5.69	-3.48	-4.50	61.2	-19.6
TGT#2(GD 21 FC #710H)										
17,683.0	88.11	356.75	12,664.9	5,125.1	116.8	5.69	-3.48	-4.50	61.7	-18.5
17,778.0	88.20	352.44	12,667.9	5,219.6	107.9	4.54	0.09	-4.54	64.0	-10.1
17,873.0	87.05	355.25	12,671.9	5,314.0	97.7	3.19	-1.21	2.96	67.1	-0.6
17,969.0	88.55	2.99	12,675.5	5,409.8	96.2	8.21	1.56	8.06	70.1	0.1
18,064.0	89.78	4.66	12,676.9	5,504.6	102.6	2.18	1.29	1.76	70.7	-6.8
18,159.0	90.66	0.53	12,676.6	5,599.5	106.9	4.44	0.93	-4.35	69.6	-11.7
18,255.0	91.28	1.14	12,674.9	5,695.5	108.3	0.91	0.65	0.64	67.2	-13.8
18,350.0	87.41	2.90	12,676.0	5,790.4	111.6	4.47	-4.07	1.85	67.5	-17.7
18,445.0	88.81	6.68	12,679.2	5,885.0	119.5	4.24	1.47	3.98	69.9	-26.2
18,540.0	88.20	6.59	12,681.6	5,979.3	130.5	0.65	-0.64	-0.09	71.6	-37.8
18,636.0	86.09	0.70	12,686.4	6,074.9	136.6	6.51	-2.20	-6.14	75.6	-44.7
18,731.0	89.25	1.05	12,690.3	6,169.8	138.1	3.35	3.33	0.37	78.7	-46.7
18,826.0	91.01	359.03	12,690.1	6,264.8	138.1	2.82	1.85	-2.13	77.7	-47.4
18,921.0	90.84	355.69	12,688.5	6,359.7	133.8	3.52	-0.18	-3.52	75.5	-43.5
19,017.0	90.22	357.18	12,687.6	6,455.5	127.8	1.68	-0.65	1.55	73.8	-38.2
19,115.0	88.90	356.83	12,688.4	6,553.4	122.7	1.39	-1.35	-0.36	73.8	-33.7
19,210.0	92.77	358.15	12,687.0	6,648.3	118.5	4.30	4.07	1.39	71.6	-30.3
19,306.0	92.68	358.06	12,682.4	6,744.1	115.3	0.13	-0.09	-0.09	66.3	-27.7
19,400.0	89.08	357.80	12,681.0	6,838.0	111.9	3.84	-3.83	-0.28	64.1	-24.9
19,496.0	88.90	357.89	12,682.7	6,933.9	108.3	0.21	-0.19	0.09	65.0	-21.9
19,591.0	88.72	357.89	12,684.7	7,028.8	104.8	0.19	-0.19	0.00	66.3	-19.0
19,686.0	91.63	357.97	12,684.4	7,123.8	101.4	3.06	3.06	0.08	65.2	-16.3
19,781.0	94.79	358.94	12,679.1	7,218.6	98.8	3.48	3.33	1.02	59.1	-14.4



EOG Resources
Midland PVA

Company: EOG Resources - Midland	Local Co-ordinate Reference: Well #720H
Project: Lea County, NM (NAD 83 NME)	TVD Reference: KB = 32' @ 3392.0usft
Site: Green Drake 21 Fed Com	MD Reference: KB = 32' @ 3392.0usft
Well: #720H	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)
19,876.0	96.02	358.68	12,670.1	7,313.1	96.9	1.32	1.29	-0.27	49.4	-13.1
19,972.0	96.81	358.50	12,659.4	7,408.5	94.5	0.84	0.82	-0.19	37.9	-11.3
Last MWD Survey (MD=19972.0')										
20,164.0	96.81	358.50	12,636.6	7,599.1	89.5	0.00	0.00	0.00	13.6	-7.6
Projection to Bit (MD=20164.0') - PBHL(GD 21 FC #710H)										

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
12,085.0	12,072.5	-148.1	-207.6	KOP, MD:12085.0', TVD:12072.5', N/S:-148.1', E/W:-207.6', INC:2.42
12,246.6	12,228.9	-111.1	-204.4	FTP Crossing, MD:12246.6', TVD:12228.9', N/S:-111.1', E/W:-204.4', INC:22.36
19,972.0	12,659.4	7,408.5	94.5	Last MWD Survey (MD=19972.0')
20,164.0	12,636.6	7,599.1	89.5	Projection to Bit (MD=20164.0')

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

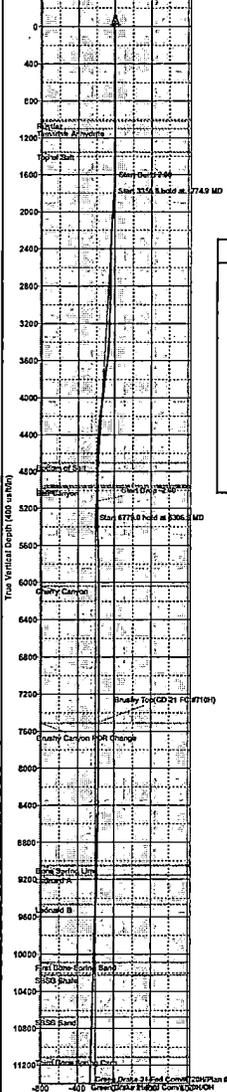
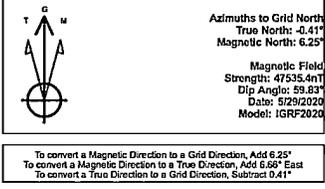


Lea County, NM (NAD 83 NME)
Green Drake 21 Fed Com #720H
Plan #3

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: #720H

KB = 32' @ 3392.0usft	3360.0
Northing	404359.00
Easting	777265.00
Latitude	32.1093697°N
Longitude	103.5713515°W



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	1600.0	0.00	0.00	1600.0	0.0	0.0	0.00	0.00	0.0	
3	1774.9	3.50	221.24	1774.7	-4.0	-3.5	2.00	221.24	-4.0	
4	5131.6	3.50	221.24	5125.3	-158.0	-138.5	0.00	0.00	-159.5	
5	5306.5	0.00	0.00	5300.0	-162.0	-142.0	2.00	180.00	-163.5	
6	12085.5	0.00	0.00	12079.0	-162.0	-142.0	0.00	0.00	-163.5	
7	12831.4	89.51	0.00	12556.4	311.4	-142.0	12.00	0.00	309.8	
8	13500.8	89.51	20.08	12562.2	967.1	-25.9	3.00	90.09	966.8	
9	13590.1	89.51	20.08	12563.0	1051.0	4.8	0.00	0.00	1051.0	
10	14272.2	89.43	359.62	12569.4	1719.4	120.9	3.00	-90.32	1720.6	TGT#2(GD 21 FC #710H)
11	17652.2	89.43	359.62	12603.0	5099.2	98.4	0.00	0.00	5100.0	
12	17657.8	89.54	359.62	12603.1	5104.8	98.4	2.00	1.81	5105.6	
13	20155.1	89.54	359.62	12623.0	7602.0	82.0	0.00	0.00	7602.4	PBHL(GD 21 FC #710H)

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 #710H)	7512.0	-162.0	-142.0	404197.00	777123.00
FTP(GD 21 FC #710H)	12553.0	-110.0	133.0	404249.00	777398.00
TGT#1(GD 21 FC #710H)	12553.0	1158.7	124.1	403537.70	777389.07
TGT#2(GD 21 FC #710H)	12603.0	5099.2	98.4	404548.20	777363.44
PBHL(GD 21 FC #710H)	12623.0	7602.0	82.0	411961.00	777347.00

