

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

Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-44874	² Pool Code 96434	³ Pool Name RED HILLS; BONE SPRING, NORTH
⁴ Property Code 321477	⁵ Property Name STONEWALL 28 FED COM	⁶ Well Number #313H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3492'

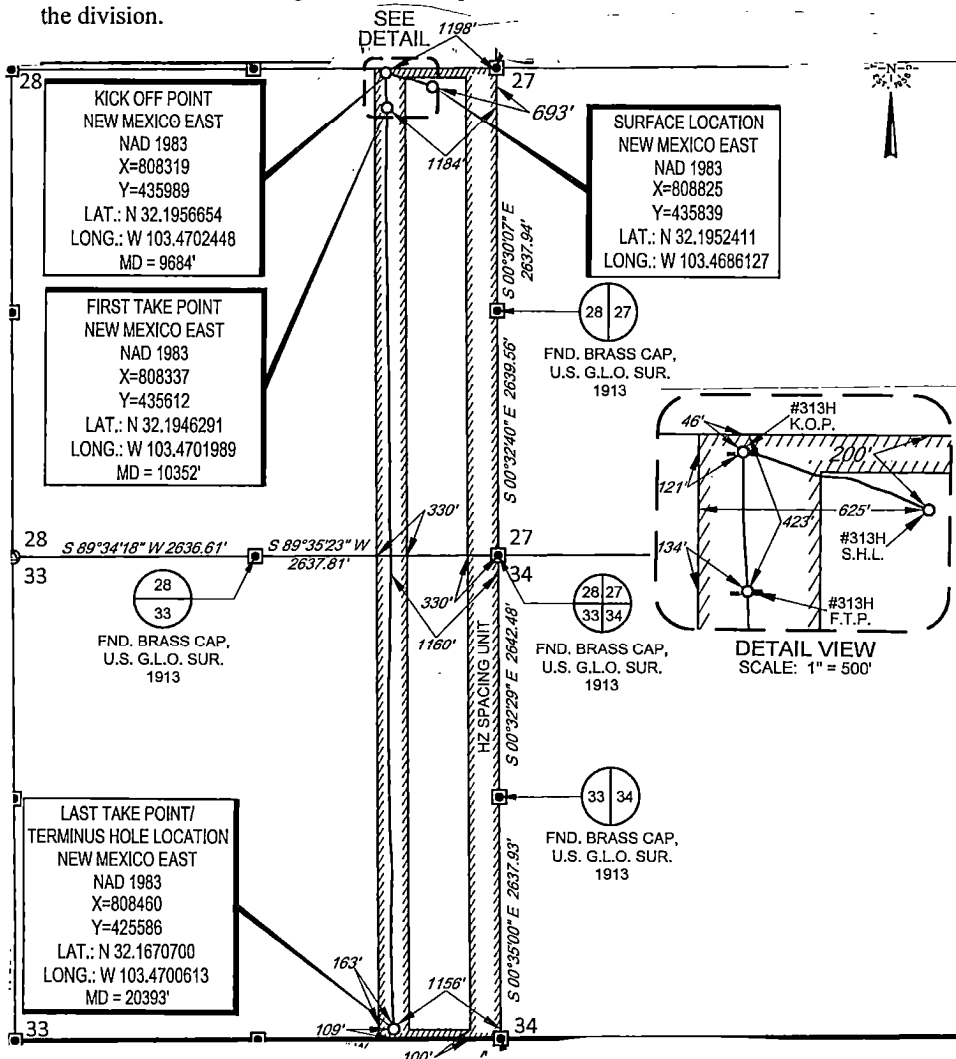
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	24-S	34-E	-	200'	NORTH	693'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	33	24-S	34-E	-	109'	SOUTH	1156'	EAST	LEA

¹² Dedicated Acres 320.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-8062
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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 07/28/2020
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.

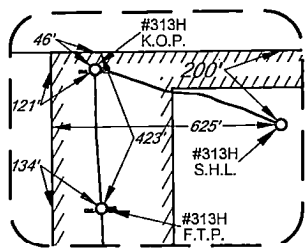
Date of Survey
Signature and Seal of Professional Surveyor

Certificate Number

SCALE: 1" = 2000'

0' 1000' 2000'

SECTION 28, TOWNSHIP 24-S, RANGE 34-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



DETAIL VIEW
SCALE: 1" = 500'

KICK OFF POINT
NEW MEXICO EAST
NAD 1983
X=808319
Y=435989
LAT.: N 32.1956654
LONG.: W 103.4702448
MD = 9884'

FIRST TAKE POINT
NEW MEXICO EAST
NAD 1983
X=808337
Y=435612
LAT.: N 32.1946291
LONG.: W 103.4701989
MD = 10352'

SURFACE LOCATION
NEW MEXICO EAST
NAD 1983
X=808825
Y=435839
LAT.: N 32.1952411
LONG.: W 103.4686127

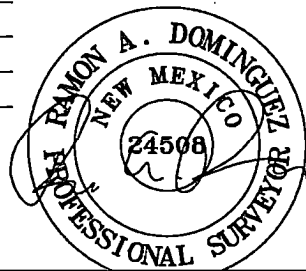
POINT	UTM ZONE 13 COORDINATES
SHL	X=2113997.899 Y=11689953.634
KOP	X=2113490.621 Y=11690099.830
FTP	X=2113509.950 Y=11689723.994
LTP/THL	X=2113695.073 Y=11679700.295

LEASE NAME & WELL NO.: STONEWALL 28 FED COM #313H
SECTION 28 TWP 24-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3492'
DESCRIPTION 200' FNL & 693' FEL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



Ramon A. Dominguez, P.S. No. 24508
MARCH 2, 2020

eoog resources, Inc.

STONEWALL 28 FED COM
#313H
AS-COMPLETED

DATE: 03/02/2020

FILE: AD_STONEWALL_28_FED_COM_313H

DRAWN BY: A.V.F.

SHEET: 1 OF 1

REVISION:

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
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 # 30-025-44874		
Operator Name: EOG RESOURCES, INC	Property Name: STONEWALL 28 FEDERAL COM	Well Number 313H

Kick Off Point (KOP)

UL A	Section 28	Township 24S	Range 34E	Lot	Feet 46	From N/S NORTH	Feet 1198	From E/W EAST	County LEA
Latitude 32.1956654					Longitude 103.4702448			NAD 1983	

First Take Point (FTP)

UL A	Section 28	Township 24S	Range 34E	Lot	Feet 423	From N/S NORTH	Feet 1184	From E/W EAST	County LEA
Latitude 32.1946291					Longitude 103.4701989			NAD 1983	

Last Take Point (LTP)

UL P	Section 33	Township 24S	Range 34E	Lot	Feet 109	From N/S SOUTH	Feet 1156	From E/W EAST	County LEA
Latitude 32.1670700					Longitude 103.4700613			NAD 1983	

Is this well the defining well for the Horizontal Spacing Unit? ☒ YESIs 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 8/12/2020 - NMOCD



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Stonewall 28 Fed Com

#313H

OH

Design: OH

Midland PVA

01 August, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #313H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB=25 @ 3517.0usft
Site:	Stonewall 28 Fed Corn	MD Reference:	KB=25 @ 3517.0usft
Well:	#313H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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

Site	Stonewall 28 Fed Corn		
Site Position:		Northing:	435,811.00 usft
From:	Map	Easting:	804,872.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 42.907 N
		Longitude:	103° 28' 53.013 W
		Grid Convergence:	0.45 °

Well	#313H				
Well Position	+N/-S	0.0 usft	Latitude:	32° 11' 42.872 N	
	+E/-W	0.0 usft	Longitude:	103° 28' 7.011 W	
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,492.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/4/2019	6.69	60.03	47,729.26576931

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	182.26	

Survey Program	Date	8/1/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
194.0	20,393.0	Driltech MWD (OH)	MWD	OWSG MWD - Standard



Midland PVA

Company: EOG Resources - Midland				Local Co-ordinate Reference:				Well #313H			
Project: Lea County, NM (NAD 83 NME)				TVD Reference:				KB=25 @ 3517.0usft			
Site: Stonewall 28 Fed Com				MD Reference:				KB=25 @ 3517.0usft			
Well: #313H				North Reference:				Grid			
Wellbore: OH				Survey Calculation Method:				Minimum Curvature			
Design: OH				Database:				EDM 5000.14			
Survey											
MD	Inc	Azi (azimuth)	TVD	N/S	E/W	D Leg	Build	Turn	High to Plan	Right to Plan	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(usft)	(usft)	
0.0	0.00	0.00	0.00	0.0	0.0	0.00	0.00	0.00	0.00	0.0	0.0
194.0	0.66	321.76	194.0	0.9	-0.7	0.34	0.34	0.00	0.00	0.0	0.0
220.0	0.57	291.52	220.0	1.0	-0.9	1.28	-0.35	-116.31	0.0	0.0	0.0
365.0	0.62	268.58	365.0	1.3	-2.4	0.17	0.03	-15.82	0.0	0.0	0.0
445.0	0.53	289.06	445.0	1.4	-3.1	0.28	-0.11	25.60	0.0	0.0	0.0
557.0	0.44	288.18	557.0	1.7	-4.0	0.08	-0.08	-0.79	0.0	0.0	0.0
744.0	0.31	237.56	744.0	1.7	-5.1	0.18	-0.07	-27.07	0.0	0.0	0.0
836.0	0.13	153.01	836.0	1.4	-5.3	0.35	-0.20	-91.90	0.0	0.0	0.0
1,021.0	0.48	66.52	1,021.0	1.5	-4.5	0.26	0.19	-46.75	0.0	0.0	0.0
1,216.0	0.44	190.98	1,216.0	1.1	-3.9	0.42	-0.02	63.83	0.0	0.0	0.0
1,305.0	1.93	280.98	1,305.0	1.1	-5.4	2.22	1.67	101.12	-1.5	-0.3	-0.3
1,400.0	2.29	293.72	1,399.9	2.2	-8.7	0.62	0.38	13.41	-5.0	-0.4	-0.4
1,495.0	2.99	291.52	1,494.8	3.8	-12.8	0.74	0.74	-2.32	-7.1	-1.4	-1.4
1,591.0	5.19	294.07	1,590.5	6.5	-19.1	2.30	2.29	2.66	-8.6	-2.0	-2.0
1,686.0	6.42	293.46	1,685.0	10.4	-27.9	1.30	1.29	-0.64	-9.6	-3.3	-3.3
1,782.0	6.24	293.28	1,780.5	14.6	-37.6	0.19	-0.19	-0.19	-10.1	-4.6	-4.6
1,876.0	6.33	293.63	1,873.9	18.7	-47.0	0.10	0.10	0.37	-10.6	-5.7	-5.7
1,972.0	6.33	293.37	1,969.3	22.9	-56.7	0.03	0.00	-0.27	-11.1	-7.0	-7.0
2,067.0	6.16	292.84	2,063.7	27.0	-66.2	0.19	-0.18	-0.56	-11.4	-8.2	-8.2
2,163.0	6.24	294.60	2,159.2	31.1	-75.7	0.21	0.08	1.83	-12.0	-9.2	-9.2
2,258.0	6.16	294.42	2,253.6	35.4	-85.1	0.09	-0.08	-0.19	-12.3	-10.6	-10.6
2,353.0	6.16	297.15	2,348.1	39.8	-94.2	0.31	0.00	2.87	-13.2	-11.6	-11.6
2,449.0	6.16	290.29	2,443.5	44.0	-103.7	0.77	0.00	-7.15	-11.9	-14.4	-14.4
2,543.0	6.33	284.67	2,537.0	47.0	-113.4	0.67	0.18	-5.98	-10.7	-15.7	-15.7
2,637.0	6.16	285.37	2,630.4	49.7	-123.3	0.20	-0.18	0.74	-11.2	-15.3	-15.3
2,733.0	6.16	286.43	2,725.9	52.5	-133.2	0.12	0.00	1.10	-11.7	-15.0	-15.0
2,828.0	5.98	287.04	2,820.3	55.4	-142.8	0.20	-0.19	0.64	-11.8	-14.9	-14.9



Midland PVA

Company:	EOG Resources - Midland			Local Co-ordinate Reference:			Well #313H		
Project:	Lea County, NM (NAD 83 NME)			TVD Reference:			KB=25 @ 3517.0usft		
Site:	Stonewall 28 Fed Com			MD Reference:			KB=25 @ 3517.0usft		
Well:	#313H			North Reference:			Grid		
Wellbore:	OH			Survey Calculation Method:			Minimum Curvature		
Design:	OH			Database:			EDM 5000.14		

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)
	2,922.0	5.80	289.77	2,913.8	58.4	-152.0	0.35	-0.19	2.90	-12.3	-14.6
	3,017.0	5.72	291.17	3,008.4	61.8	-160.9	0.17	-0.08	1.47	-12.2	-15.0
	3,112.0	5.63	291.79	3,102.9	65.2	-169.6	0.11	-0.09	0.65	-11.7	-15.8
	3,206.0	5.36	292.31	3,196.5	68.6	-178.0	0.29	-0.29	0.55	-11.0	-16.6
	3,302.0	5.10	292.93	3,292.1	71.9	-186.1	0.28	-0.27	0.65	-9.9	-17.6
	3,397.0	4.66	293.19	3,386.7	75.1	-193.5	0.46	-0.46	0.27	-8.1	-18.7
	3,493.0	5.45	288.18	3,482.3	78.1	-201.4	0.94	0.82	-5.22	-4.7	-20.0
	3,589.0	5.72	284.14	3,577.9	80.7	-210.4	0.50	0.28	-4.21	-2.5	-20.2
	3,684.0	5.19	279.75	3,672.5	82.5	-219.2	0.71	-0.56	-4.62	-0.1	-19.5
	3,780.0	4.84	276.05	3,768.1	83.7	-227.5	0.50	-0.36	-3.85	2.8	-17.9
	3,874.0	4.31	268.94	3,861.8	84.0	-235.0	0.82	-0.56	-7.56	7.0	-14.9
	3,970.0	5.19	274.74	3,957.5	84.3	-242.9	1.04	0.92	6.04	7.4	-13.1
	4,066.0	5.98	274.91	4,053.0	85.1	-252.2	0.82	0.82	0.18	7.9	-11.1
	4,162.0	5.72	274.82	4,148.5	86.0	-262.0	0.27	-0.27	-0.09	8.1	-9.1
	4,257.0	5.28	268.06	4,243.1	86.2	-271.1	0.82	-0.46	-7.12	9.5	-5.4
	4,353.0	5.80	272.10	4,338.6	86.2	-280.3	0.68	0.54	4.21	9.7	-3.3
	4,447.0	6.42	279.22	4,432.1	87.3	-290.3	1.04	0.66	7.57	9.1	-2.6
	4,543.0	5.01	277.37	4,527.6	88.7	-299.7	1.48	-1.47	-1.93	9.6	-0.9
	4,638.0	5.10	284.32	4,622.2	90.2	-307.9	0.65	0.09	7.32	11.1	-1.2
	4,733.0	6.07	290.20	4,716.8	93.0	-316.7	1.18	1.02	6.19	11.7	-2.5
	4,829.0	5.28	288.71	4,812.3	96.2	-325.7	0.84	-0.82	-1.55	12.4	-2.7
	4,924.0	4.04	288.89	4,907.0	98.7	-333.0	1.31	-1.31	0.19	14.7	-3.2
	5,020.0	4.75	287.74	5,002.7	101.0	-340.0	0.75	0.74	-1.20	17.5	-3.2
	5,094.0	5.89	288.27	5,076.4	103.1	-346.5	1.54	1.54	0.72	18.4	-3.5
	5,190.0	5.36	289.94	5,171.9	106.2	-355.4	0.58	-0.55	1.74	19.0	-4.5
	5,287.0	5.01	292.84	5,268.5	109.4	-363.5	0.45	-0.36	2.99	20.2	-6.4
	5,383.0	5.98	290.24	5,364.1	112.7	-372.1	1.04	1.01	-2.71	21.4	-6.3



Midland PVA

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Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB=25 @ 3517.0usft
Site:	Stonewall 28 Fed Com	MD Reference:	KB=25 @ 3517.0usft
Well:	#313H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)
	5,478.0	6.77	287.22	5,458.5	116.1	-382.1	0.90	0.83	-3.18	21.2	-5.6
	5,573.0	7.21	288.62	5,552.8	119.6	-393.1	0.50	0.46	1.47	19.5	-6.3
	5,668.0	7.21	289.06	5,647.0	123.5	-404.4	0.06	0.00	0.46	17.5	-6.9
	5,763.0	7.21	287.13	5,741.3	127.2	-415.7	0.25	0.00	-2.03	15.8	-6.6
	5,858.0	7.21	289.59	5,835.5	130.9	-427.0	0.32	0.00	2.59	13.6	-7.6
	5,954.0	7.21	288.62	5,930.8	134.9	-438.4	0.13	0.00	-1.01	11.7	-7.8
	6,049.0	5.36	286.86	6,025.2	138.1	-448.3	1.96	-1.95	-1.85	11.6	-7.7
	6,145.0	5.10	284.67	6,120.8	140.5	-456.7	0.34	-0.27	-2.28	13.3	-7.1
	6,240.0	3.78	292.49	6,215.5	142.7	-463.7	1.53	-1.39	8.23	14.8	-9.3
	6,335.0	3.34	296.71	6,310.3	145.2	-469.1	0.54	-0.46	4.44	17.8	-11.9
	6,431.0	2.02	281.94	6,406.2	146.8	-473.2	1.54	-1.37	-15.39	23.1	-7.1
	6,526.0	0.62	349.18	6,501.2	147.6	-475.0	1.97	-1.47	70.78	3.1	-26.1
	6,621.0	0.79	36.82	6,596.2	148.7	-474.7	0.82	0.18	50.15	-18.5	-20.3
	6,716.0	0.53	37.34	6,691.2	149.5	-474.0	0.27	-0.27	0.55	-19.8	-20.1
	6,811.0	0.88	35.85	6,786.2	150.5	-473.3	0.37	0.37	-1.57	-20.4	-20.6
	6,906.0	0.97	30.66	6,881.2	151.8	-472.5	0.13	0.09	-5.46	-20.0	-22.5
	7,094.0	0.88	31.45	7,069.2	154.4	-470.9	0.05	-0.05	0.42	-23.4	-22.2
	7,191.0	0.70	24.51	7,166.1	155.5	-470.3	0.21	-0.19	-7.15	-21.8	-24.9
	7,285.0	0.88	25.57	7,260.1	156.7	-469.7	0.19	0.19	1.13	-23.6	-24.5
	7,380.0	0.62	19.59	7,355.1	157.8	-469.2	0.29	-0.27	-6.29	-22.1	-26.9
	7,475.0	0.79	231.93	7,450.1	157.9	-469.6	1.43	0.18	-155.43	32.9	10.6
	7,571.0	0.88	230.61	7,546.1	157.1	-470.7	0.10	0.09	-1.37	31.2	11.3
	7,666.0	0.79	230.35	7,641.1	156.2	-471.7	0.09	-0.09	-0.27	29.8	11.5
	7,760.0	0.97	230.18	7,735.1	155.2	-472.8	0.19	0.19	-0.18	28.3	11.6
	7,855.0	0.97	235.36	7,830.1	154.3	-474.1	0.09	0.00	5.45	27.6	9.0
	7,950.0	1.14	260.59	7,925.1	153.7	-475.7	0.52	0.18	26.56	27.2	-3.3
	8,046.0	1.14	263.31	8,021.0	153.4	-477.6	0.06	0.00	2.83	25.1	-4.5



Midland PVA

Company: Project: Site: Well: Wellbore: Design:			EOG Resources - Midland Lea County, NM (NAD 83 NME) Stonewall 28 Fed Com #313H OH OH			Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:					Well #313H KB=25 @ 3517.0usft KB=25 @ 3517.0usft Grid Minimum Curvature EDM 5000.14		



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Stonewall 28 Fed Corn Well: #313H Wellbore: OH Design: OH				Local Co-ordinate Reference: TVD Reference: KB=25 @ 3517.0usft MD Reference: KB=25 @ 3517.0usft Grid North Reference: Minimum Curvature Survey Calculation Method: Database: EDM 5000.14							
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)	
10,570.0	92.68	182.80	10,220.8	-436.4	-486.6	11.45	11.01	3.15	-1.4	9.9	
10,666.0	90.48	182.36	10,218.2	-532.2	-490.9	2.34	-2.29	-0.46	-4.5	4.7	
10,761.0	91.10	180.87	10,216.9	-627.2	-493.6	1.70	0.65	-1.57	-6.3	1.1	
10,857.0	91.71	180.60	10,214.5	-723.2	-494.8	0.69	0.64	-0.28	-9.2	-1.0	
10,952.0	88.99	179.73	10,213.9	-818.1	-495.1	3.01	-2.86	-0.92	-10.2	-2.2	
11,046.0	90.22	179.73	10,214.6	-912.1	-494.6	1.31	1.31	0.00	-10.1	-2.6	
11,142.0	89.60	179.64	10,214.7	-1,008.1	-494.1	0.65	-0.65	-0.09	-10.5	-3.0	
11,238.0	88.99	180.43	10,215.9	-1,104.1	-494.2	1.04	-0.64	0.82	-10.8	-3.9	
11,333.0	88.72	179.81	10,217.8	-1,199.1	-494.4	0.71	-0.28	-0.65	-10.2	-5.0	
11,427.0	90.48	179.02	10,218.5	-1,293.1	-493.4	2.05	1.87	-0.84	-11.0	-5.0	
11,523.0	90.13	178.67	10,218.0	-1,389.1	-491.5	0.52	-0.36	-0.36	-12.9	-3.9	
11,617.0	90.48	178.58	10,217.5	-1,483.1	-489.2	0.38	0.37	-0.10	-14.8	-2.6	
11,711.0	90.04	178.41	10,217.0	-1,577.0	-486.7	0.50	-0.47	-0.18	-16.6	-1.0	
11,807.0	89.87	178.76	10,217.1	-1,673.0	-484.4	0.41	-0.18	0.36	-17.9	0.5	
11,902.0	90.57	178.58	10,216.7	-1,768.0	-482.2	0.76	0.74	-0.19	-19.6	1.8	
11,997.0	90.84	178.32	10,215.6	-1,862.9	-479.6	0.39	0.28	-0.27	-22.2	3.5	
12,093.0	90.75	177.97	10,214.2	-1,958.9	-476.5	0.38	-0.09	-0.36	-24.9	5.7	
12,188.0	88.02	179.46	10,215.3	-2,053.8	-474.4	3.27	-2.87	1.57	-25.3	6.9	
12,284.0	85.03	178.50	10,221.1	-2,149.6	-472.6	3.27	-3.11	-1.00	-20.9	7.7	
12,380.0	86.44	178.50	10,228.2	-2,245.3	-470.1	1.47	1.47	0.00	-15.1	9.3	
12,475.0	90.57	179.46	10,230.7	-2,340.2	-468.5	4.46	4.35	1.01	-14.0	10.1	
12,570.0	88.55	179.99	10,231.4	-2,435.2	-468.0	2.20	-2.13	0.56	-15.0	9.7	
12,666.0	89.52	179.29	10,233.0	-2,531.2	-467.4	1.25	1.01	-0.73	-15.2	9.4	
12,768.0	86.35	178.58	10,236.4	-2,623.1	-465.7	3.53	-3.45	-0.77	-13.6	10.2	
12,852.0	88.99	177.97	10,240.2	-2,717.0	-462.9	2.88	2.81	-0.65	-11.6	12.1	
12,947.0	89.60	177.97	10,241.3	-2,811.9	-459.5	0.64	0.64	0.00	-12.2	14.6	
13,042.0	89.08	177.70	10,242.4	-2,906.9	-455.9	0.62	-0.55	-0.28	-12.9	17.3	



Midland PVA

Company: EOG Resources - Midland		Local Co-ordinate Reference:							Well #313H	
Project: Lea County, NM (NAD 83 NME)		TVD Reference:							KB=25 @ 3517.0usft	
Site: Stonewall 28 Fed Com		MD Reference:							KB=25 @ 3517.0usft	
Well: #313H		North Reference:							Grid	
Wellbore: OH		Survey Calculation Method:							Minimum Curvature	
Design: OH		Database:							EDM 5000.14	
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)
13,136.0	88.55	177.53	10,244.4	-3,000.8	-452.0	0.59	-0.56	-0.18	-12.7	20.3
13,231.0	87.49	179.81	10,247.7	-3,095.7	-449.8	2.65	-1.12	2.40	-11.2	21.7
13,327.0	87.05	179.46	10,252.2	-3,191.6	-449.2	0.59	-0.46	-0.36	-8.4	21.4
13,422.0	86.70	180.08	10,257.4	-3,286.4	-448.8	0.75	-0.37	0.65	-5.0	20.9
13,517.0	86.70	180.25	10,262.9	-3,381.3	-449.1	0.18	0.00	0.18	-1.3	19.7
13,613.0	86.79	180.08	10,268.3	-3,477.1	-449.3	0.20	0.09	-0.18	2.3	18.5
13,709.0	86.79	180.52	10,273.7	-3,572.9	-449.8	0.46	0.00	0.46	5.9	17.1
13,805.0	86.70	178.94	10,279.2	-3,668.8	-449.4	1.65	-0.09	-1.65	9.5	16.7
13,899.0	85.03	177.97	10,285.9	-3,762.5	-446.9	2.05	-1.78	-1.03	14.5	18.3
13,994.0	86.35	177.44	10,293.1	-3,857.2	-443.1	1.50	1.39	-0.56	19.9	21.2
14,090.0	88.72	177.79	10,297.2	-3,953.0	-439.1	2.50	2.47	0.36	22.2	24.3
14,186.0	90.04	180.34	10,298.2	-4,049.0	-437.5	2.99	1.37	2.66	21.4	24.9
14,280.0	92.15	180.08	10,296.4	-4,142.9	-437.9	2.26	2.24	-0.28	17.9	23.7
14,374.0	90.92	180.96	10,293.9	-4,236.9	-438.7	1.61	-1.31	0.94	13.6	22.0
14,470.0	86.26	180.08	10,296.3	-4,332.8	-439.6	4.94	-4.85	-0.92	14.2	20.2
14,566.0	88.72	180.52	10,300.5	-4,428.7	-440.1	2.60	2.56	0.46	16.6	18.8
14,661.0	90.13	179.46	10,301.4	-4,523.7	-440.1	1.86	1.48	-1.12	15.9	17.9
14,757.0	89.60	178.67	10,301.7	-4,619.7	-438.5	0.99	-0.55	-0.82	14.9	18.6
14,852.0	87.85	177.18	10,303.8	-4,714.6	-435.1	2.42	-1.84	-1.57	15.9	21.1
14,947.0	86.17	176.56	10,308.7	-4,809.3	-429.9	1.88	-1.77	-0.65	19.6	25.5
15,042.0	87.41	177.79	10,314.1	-4,904.1	-425.2	1.84	1.31	1.29	23.8	29.2
15,137.0	89.52	178.14	10,316.6	-4,999.0	-421.8	2.25	2.22	0.37	25.1	31.7
15,231.0	90.75	179.99	10,316.4	-5,092.9	-420.3	2.36	1.31	1.97	23.8	32.3
15,327.0	88.81	178.76	10,316.8	-5,188.9	-419.3	2.39	-2.02	-1.28	22.9	32.5
15,422.0	89.25	179.90	10,318.4	-5,283.9	-418.2	1.29	0.46	1.20	23.4	32.7
15,518.0	87.93	180.87	10,320.7	-5,379.9	-418.8	1.71	-1.37	1.01	24.5	31.1
15,613.0	89.78	181.13	10,322.6	-5,474.8	-420.5	1.97	1.95	0.27	25.3	28.6



Midland PVA

Company: EOG Resources - Midland				Local Co-ordinate Reference:						
Project: Lea County, NM (NAD 83 NME)				TVD Reference: KB=25 @ 3517.0usft						
Site: Stonewall 28 Fed Com				MD Reference: KB=25 @ 3517.0usft						
Well: #313H				Grid						
Wellbore: OH				North Reference: Minimum Curvature						
Design: OH				Survey Calculation Method: EDM 5000.14						
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)
15,710.0	90.22	180.69	10,322.6	-5,571.8	-422.0	0.64	0.45	-0.45	24.0	26.1
15,804.0	90.75	181.57	10,321.8	-5,665.8	-423.9	1.09	0.56	0.94	22.1	23.4
15,899.0	91.63	181.40	10,319.9	-5,760.8	-426.3	0.94	0.93	-0.18	18.9	20.0
15,993.0	92.24	179.99	10,316.7	-5,854.7	-427.5	1.63	0.65	-1.50	14.6	18.0
16,088.0	91.71	179.11	10,313.4	-5,949.6	-426.7	1.08	-0.56	-0.93	10.1	17.8
16,182.0	92.15	178.06	10,310.2	-6,043.5	-424.4	1.21	0.47	-1.12	5.8	19.3
16,277.0	92.42	180.43	10,306.5	-6,138.5	-423.1	2.51	0.28	2.49	1.0	19.6
16,373.0	90.22	183.51	10,304.2	-6,234.4	-426.4	3.94	-2.29	3.21	-1.9	15.4
16,468.0	88.11	183.94	10,305.6	-6,329.1	-432.6	2.27	-2.22	0.45	-1.2	8.4
16,563.0	87.05	181.48	10,309.6	-6,423.9	-437.1	2.82	-1.12	-2.59	2.1	3.0
16,659.0	87.14	180.87	10,314.5	-6,519.8	-439.1	0.64	0.09	-0.64	6.3	0.1
16,754.0	86.79	181.04	10,319.5	-6,614.6	-440.6	0.41	-0.37	0.18	10.6	-2.4
16,850.0	88.72	179.81	10,323.3	-6,710.6	-441.4	2.38	2.01	-1.28	13.7	-4.0
16,946.0	87.49	178.76	10,326.5	-6,806.5	-440.2	1.68	-1.28	-1.09	16.2	-3.7
17,042.0	90.22	179.37	10,328.4	-6,902.5	-438.6	2.91	2.84	0.64	17.4	-3.0
17,137.0	90.57	179.73	10,327.7	-6,997.5	-437.8	0.53	0.37	0.38	16.0	-3.2
17,232.0	90.48	178.76	10,326.9	-7,092.4	-436.6	1.03	-0.09	-1.02	14.5	-2.8
17,327.0	90.92	178.50	10,325.7	-7,187.4	-434.3	0.54	0.46	-0.27	12.6	-1.4
17,423.0	91.19	179.11	10,323.9	-7,283.4	-432.3	0.69	0.28	0.64	10.1	-0.3
17,518.0	90.84	177.62	10,322.3	-7,378.3	-429.6	1.61	-0.37	-1.57	7.8	1.5
17,612.0	92.68	178.23	10,319.4	-7,472.2	-426.2	2.06	1.96	0.65	4.2	4.0
17,708.0	92.95	178.14	10,314.6	-7,568.0	-423.2	0.30	0.28	-0.09	-1.4	6.1
17,803.0	91.98	178.41	10,310.6	-7,662.9	-420.3	1.06	-1.02	0.28	-6.3	8.1
17,898.0	89.96	179.81	10,309.0	-7,757.9	-418.8	2.59	-2.13	1.47	-8.8	8.7
17,992.0	90.22	179.55	10,308.8	-7,851.9	-418.3	0.39	0.28	-0.28	-9.8	8.3
18,086.0	88.55	178.23	10,309.8	-7,945.8	-416.5	2.26	-1.78	-1.40	-9.6	9.2
18,181.0	88.37	177.79	10,312.4	-8,040.8	-413.2	0.50	-0.19	-0.46	-7.9	11.6



Midland PVA

Company: EOG Resources - Midland			Local Co-ordinate Reference:							
Project: Lea County, NM (NAD 83 NME)			TVD Reference:							
Site: Stonewall 28 Fed Com			MD Reference:							
Well: #313H			North Reference:							
Wellbore: OH			Survey Calculation Method:							
Design: OH			Database:							
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)
18,276.0	89.87	177.79	10,313.8	-8,135.7	-409.5	1.58	1.58	0.00	-7.3	14.4
18,372.0	88.37	175.86	10,315.3	-8,231.5	-404.2	2.55	-1.56	-2.01	-6.7	18.8
18,468.0	90.04	175.42	10,316.6	-8,327.2	-396.9	1.80	1.74	-0.46	-6.2	25.2
18,562.0	89.78	177.35	10,316.8	-8,421.0	-391.0	2.07	-0.28	2.05	-6.9	30.3
18,656.0	90.22	179.29	10,316.8	-8,515.0	-388.2	2.12	0.47	2.06	-7.7	32.1
18,752.0	90.75	181.57	10,316.0	-8,611.0	-389.0	2.44	0.55	2.37	-9.4	30.5
18,847.0	90.92	181.22	10,314.6	-8,705.9	-391.3	0.41	0.18	-0.37	-11.6	27.3
18,942.0	90.13	180.78	10,313.7	-8,800.9	-392.9	0.95	-0.83	-0.46	-13.3	24.7
19,037.0	90.92	181.57	10,312.8	-8,895.9	-394.9	1.18	0.83	0.83	-15.1	21.9
19,132.0	89.78	180.69	10,312.3	-8,990.9	-396.7	1.52	-1.20	-0.93	-16.5	19.1
19,227.0	91.36	180.96	10,311.3	-9,085.8	-398.1	1.69	1.66	0.28	-18.3	16.9
19,322.0	91.63	178.94	10,308.8	-9,180.8	-398.0	2.14	0.28	-2.13	-21.6	16.1
19,417.0	91.80	180.08	10,306.0	-9,275.8	-397.2	1.21	0.18	1.20	-25.3	16.0
19,510.0	90.04	179.55	10,304.5	-9,368.7	-396.9	1.98	-1.89	-0.57	-27.6	15.4
19,605.0	88.29	179.64	10,305.9	-9,463.7	-396.2	1.84	-1.84	0.09	-27.1	15.2
19,701.0	89.43	178.58	10,307.8	-9,559.7	-394.8	1.62	1.19	-1.10	-26.0	15.8
19,796.0	87.85	177.53	10,310.1	-9,654.6	-391.5	2.00	-1.66	-1.11	-24.6	18.1
19,892.0	89.96	178.32	10,311.9	-9,750.5	-388.1	2.35	2.20	0.82	-23.6	20.7
19,987.0	90.31	178.94	10,311.7	-9,845.5	-385.8	0.75	0.37	0.65	-24.7	22.0
20,082.0	91.36	177.97	10,310.3	-9,940.4	-383.2	1.50	1.11	-1.02	-26.9	23.7
20,193.0	88.02	176.56	10,310.9	-10,051.3	-377.9	3.27	-3.01	-1.27	-27.4	27.9
20,393.0	88.02	176.56	10,317.8	-10,250.8	-365.9	0.00	0.00	0.00	-22.3	38.0



Midland PVA

Company: EOG Resources - Midland Lea County, NM (NAD 83 NME)	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:
Site: Stonewall 28 Fed Com	Well #313H
Well: #313H	KB=25 @ 3517.0usft
Wellbore: OH	KB=25 @ 3517.0usft
Design: OH	Grid Minimum Curvature EDM 5000.14

Design Annotations			
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)
9,684.0	9,658.6	150.3	-506.1
9,886.6	9,852.4	96.0	-504.6
20,193.0	10,310.9	-10,051.3	-377.9
20,393.0	10,317.8	-10,250.8	-365.9
KOP, MD:9684.0', TVD:9658.6', N/S:150.3', EW:-506.1', INC:5.25			
FTP Crossing, MD:9886.6', TVD:9852.4', N/S:96.0', EW:-504.6', INC:26.40			
Last MWD Survey (MD=20193.0')			
Projection to Bit (MD=20393.0')			

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

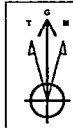
Kay Maddox 7/28/2020
Signed Date



Lea County, NM (NAD 83 NME)

Stonewall 28 Fed Com #313H

Plan #2



Azimuths to Grid North
True North: 0.49°
Magnetic North: 6.23°

Magnetic Field
Strength: 47729.3mT
Dip Angle: 60.03°
Date: 04/2019
Model: IGRF2016

To convert a Magnetic Direction to a Grid Direction, Add 6.23°
To convert a Magnetic Direction to a True Direction, Add 6.69° East
To convert a True Direction to a Grid Direction, Subtract 6.42°

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

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: North Mexican Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #313H

KB#25 @ 3517.0usft 3492.0
Northing 435839.00 Easting 809925.00 Latitude 32° 11' 42.972 N Longitude 103° 28' 7.011 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	1218.0	0.44	180.98	1216.0	1.1	-3.9	0.00	0.00	-1.0	
2	1375.0	0.44	180.98	1375.0	-0.1	-4.1	0.00	0.00	0.2	
3	1680.6	6.05	288.48	1680.0	3.4	-19.8	2.00	89.59	-2.6	
4	8297.2	6.05	288.48	8270.9	141.5	-486.7	0.00	0.00	-122.2	
5	6589.0	0.00	0.00	6573.0	148.0	-502.0	2.00	180.00	-126.1	
6	9876.1	0.00	0.00	9849.2	146.0	-502.0	0.00	0.00	-126.1	
7	10573.2	89.71	179.46	10222.2	-424.0	-498.6	10.00	179.46	443.2	
8	11130.8	89.71	179.46	10225.0	-981.4	-491.4	0.00	0.00	1000.0	TGT#1[SW 28 FC #313H]
9	11157.8	89.16	179.46	10225.3	-1008.6	-491.1	2.00	180.00	1027.2	TGT#2[SW 28 FC #313H]
10	12507.4	89.16	179.46	10245.0	-2358.0	-478.4	0.00	0.00	2375.0	TGT#3[SW 28 FC #313H]
11	12519.4	88.92	179.46	10245.2	-2370.0	-478.3	2.00	-180.00	2387.0	TGT#4[SW 28 FC #313H]
12	14635.3	88.92	179.46	10285.0	-4485.4	-458.3	0.00	0.00	4500.0	TGT#5[SW 28 FC #313H]
13	14653.5	89.29	179.46	10285.3	-4503.6	-458.2	2.00	0.00	4518.2	TGT#6[SW 28 FC #313H]
14	16237.4	89.29	179.46	10305.0	-6087.3	-443.1	0.00	0.00	6100.0	TGT#7[SW 28 FC #313H]
15	16252.1	89.58	179.46	10305.1	-6102.0	-443.1	2.00	0.00	6114.7	TGT#8[SW 28 FC #313H]
16	17599.0	89.58	179.46	10315.0	-7448.8	-430.4	0.00	0.00	7460.0	TGT#9[SW 28 FC #313H]
17	17603.6	89.49	179.46	10315.0	-7453.4	-430.4	2.00	180.00	7464.6	TGT#10[SW 28 FC #313H]
18	20402.4	89.49	179.46	10340.0	-10252.0	-404.0	0.00	0.00	10260.0	PBHL[SW 28 FC #313H]

CASINO DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
Brushy Top[SW 28 FC #313H]	7709.0	148.0	-507.0	435888.00	808323.00
TGT#1[SW 28 FC #313H]	10226.6	-981.4	-491.4	434587.00	808293.67
TGT#2[SW 28 FC #313H]	10245.0	-2358.0	-478.4	434581.00	808346.60
TGT#3[SW 28 FC #313H]	10285.0	-4485.4	-458.3	431923.60	808368.65
TGT#4[SW 28 FC #313H]	10305.0	-6087.3	-443.1	429761.70	808381.75
TGT#5[SW 28 FC #313H]	10315.0	-7448.8	-430.4	428590.30	808394.59
PBHL[SW 28 FC #313H]	10340.0	-10252.0	-404.0	428587.00	808421.00
FTT[SW 28 FC #313H]	12220.0	96.0	-602.0	435835.00	808323.00

