

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 30-025-44926		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 #309H
⁷ GRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3497'

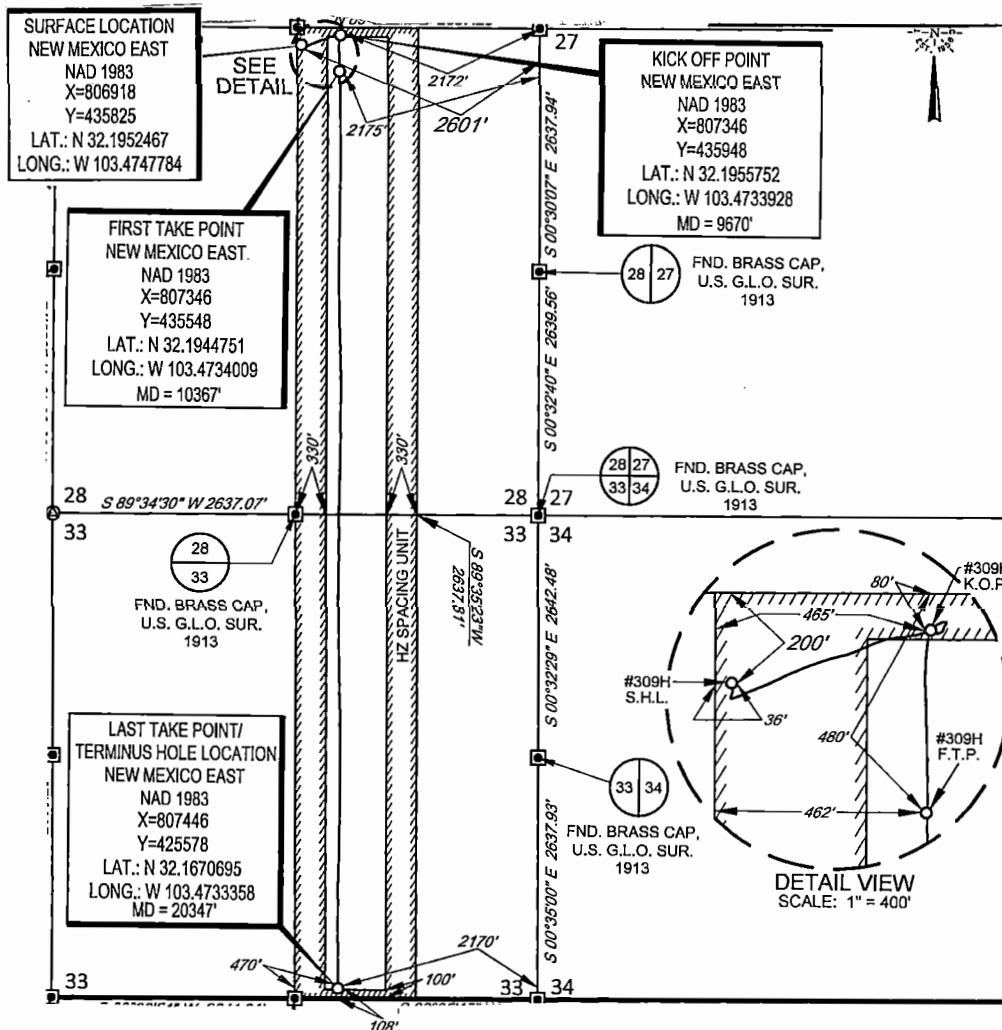
¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	28	24-S	34-E	-	200'	NORTH	2601'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	33	24-S	34-E	-	108'	SOUTH	2170'	EAST	LEA

¹² Dedicated Acres 320.00	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 07/27/2020
Signature Date

KAY MADDOX
Printed Name

KAY_MADDOX@EOGRESOURCES.COM
E-mail Address

¹⁸SURVEYOR CERTIFICATION

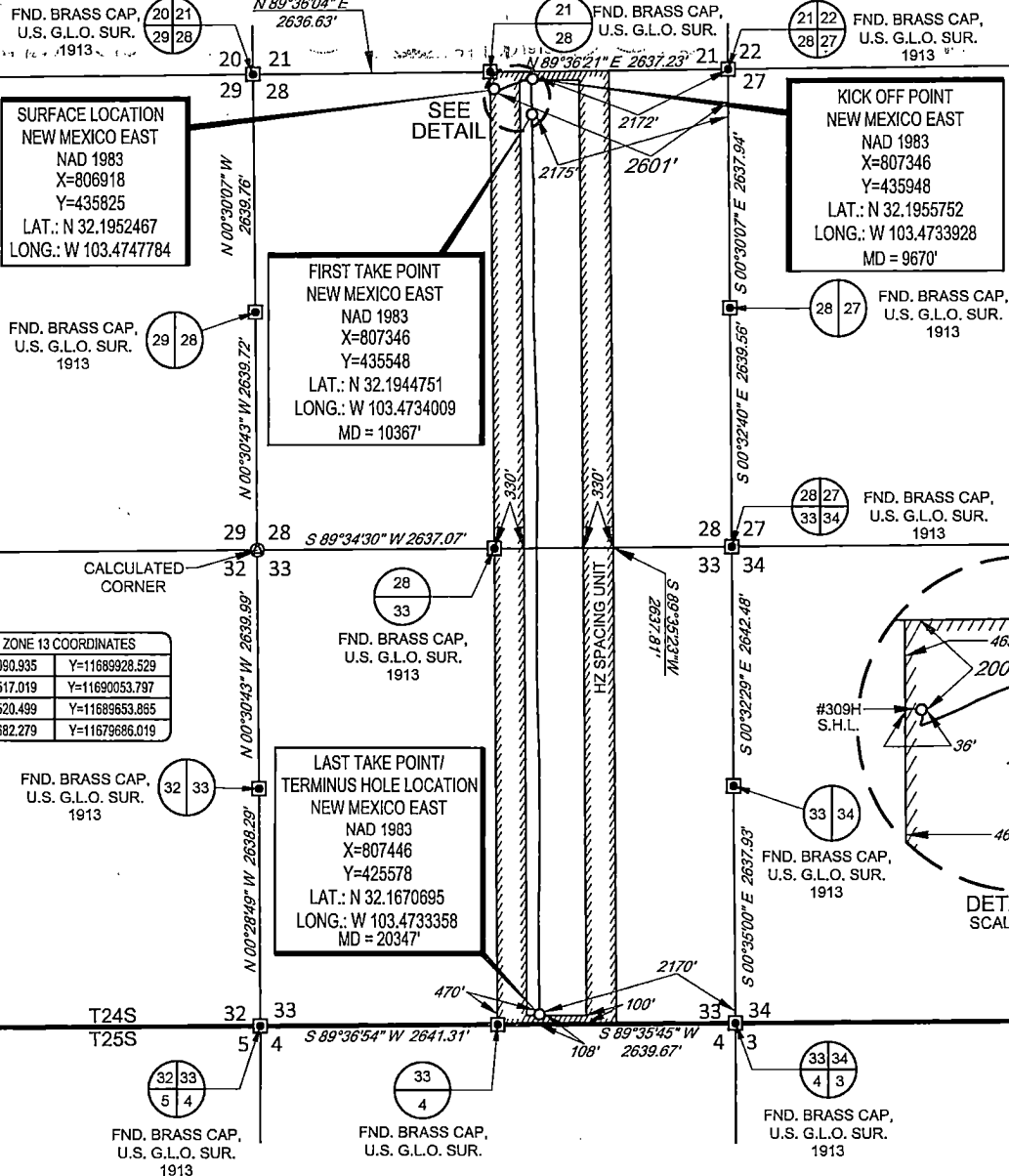
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

11/11/2017
Date of Survey
Signature and Seal of Professional Surveyor
NEW MEXICO
18329
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

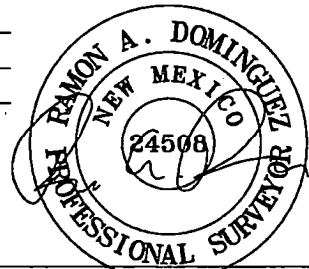


LEASE NAME & WELL NO.: STONEWALL 28 FED COM #309H
SECTION 28 TWP 24-S RGE 34-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3497'
DESCRIPTION 200' FNL & 2601' FEL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2803 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
FEBRUARY 28, 2020

EOG resources, Inc.

STONEWALL 28 FED COM
#309H
AS-COMPLETE

DATE: 02/28/2020
FILE: AD_STONEWALL_28_FED_COM_309H
DRAWN BY: H.B.
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 #
30-025-44926

Operator Name: EOG RESOURCES, INC	Property Name: STONEWALL 28 FEDERAL COM	Well Number 309H
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Kick Off Point (KOP)

UL B	Section 28	Township 24S	Range 34E	Lot	Feet 80	From N/S NORTH	Feet 2172	From E/W EAST	County LEA
Latitude 32.1955752					Longitude 103.4733928			NAD 1983	

First Take Point (FTP)

UL B	Section 28	Township 24S	Range 34E	Lot	Feet 480	From N/S NORTH	Feet 2175	From E/W EAST	County LEA
Latitude 32.1944751					Longitude 103.4734009			NAD 1983	

Last Take Point (LTP)

UL O	Section 33	Township 24S	Range 34E	Lot	Feet 108	From N/S SOUTH	Feet 2170	From E/W EAST	County LEA
Latitude 32.1670695					Longitude 103.4733358			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



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Stonewall 28 Fed Com

#309H

OH

Design: OH

Midland PVA

14 August, 2019



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #309H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB=25 @ 3522.0usft
Site:	Stonewall 28 Fed Com	MD Reference:	KB=25 @ 3522.0usft
Well:	#309H	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 Com		
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:	#309H		
Well Position:	+N/-S	0.0 usft	Latitude:
	+E/-W	0.0 usft	Longitude:
Position Uncertainty:	0.0 usft	Wellhead Elevation:	Ground Level:
			3,497.0 usft

Wellbore:	OH		
Magnetics:	Model Name	Sample Date	Dip Angle
	IGRF2015	6/4/2019	60.03
			47,728.59611752

Design:	OH		
Audit Notes:			
Version:	1.0	Phase:	Tie On Depth:
		ACTUAL	0.0
Vertical Section:	Depth From (TVD)	+N/-S	Direction
	(usft)	(usft)	(°)
	0.0	0.0	176.99

Survey Program	Date	8/14/2019	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
176.0	20,347.0	Driltech MWD (OH)	MWD
			OWSG MWD - Standard



Midland PVA

Company: EOG Resources - Midland Project: Lea County, NM (NAD 83 NME) Site: Stonewall 28 Fed Com			Local Co-ordinate Reference: TVD Reference: KB=25 @ 3522.0usft MD Reference: KB=25 @ 3522.0usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 5000.14				Well #309H							
Well: #309H Wellbore: OH Design: OH														
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				
176.0	0.97	177.90	176.0	-1.5	0.1	0.55	0.55	0.00	-1.5	0.0				
238.0	1.14	179.74	238.0	-2.6	0.1	0.28	0.27	2.97	-2.6	0.1				
325.0	1.23	182.03	325.0	-4.4	0.0	0.12	0.10	2.63	-4.4	0.2				
413.0	1.14	155.75	412.9	-6.2	0.4	0.62	-0.10	-29.86	-5.8	-2.2				
502.0	1.14	158.21	501.9	-7.8	1.1	0.05	0.00	2.76	-7.6	-1.9				
593.0	1.06	167.79	592.9	-9.5	1.6	0.22	-0.09	10.53	-9.6	-0.5				
683.0	1.14	164.36	682.9	-11.1	2.0	0.12	0.09	-3.81	-11.3	-1.1				
781.0	0.88	150.56	780.9	-12.7	2.6	0.36	-0.27	-14.08	-12.4	-4.0				
876.0	0.79	174.56	875.9	-14.0	3.1	0.38	-0.09	25.26	-14.2	1.7				
971.0	1.23	195.83	970.9	-15.7	2.8	0.60	0.46	22.39	-14.3	7.0				
1,065.0	1.76	190.91	1,064.8	-18.0	2.3	0.58	0.56	-5.23	-17.3	5.7				
1,160.0	2.55	194.07	1,159.8	-21.5	1.5	0.84	0.83	3.33	-20.5	6.7				
1,344.0	2.37	200.93	1,343.6	-29.0	-0.9	0.19	-0.10	3.73	-27.6	9.3				
1,439.0	0.79	161.37	1,438.5	-31.5	-1.4	1.93	-1.66	-41.64	-29.5	-14.7				
1,533.0	2.29	78.41	1,532.5	-31.7	0.7	2.48	1.60	-88.26	15.0	-32.5				
1,628.0	3.78	72.69	1,627.4	-30.4	5.5	1.60	1.57	-6.02	22.2	-31.3				
1,723.0	5.89	68.12	1,722.0	-27.7	13.1	2.26	2.22	-4.81	26.6	-29.2				
1,817.0	7.21	66.80	1,815.4	-23.6	23.0	1.41	1.40	-1.40	26.3	-28.0				
1,911.0	7.03	66.72	1,908.7	-19.0	33.7	0.19	-0.19	-0.09	24.5	-27.3				
2,006.0	6.95	67.16	2,003.0	-14.4	44.3	0.10	-0.08	0.46	22.7	-26.8				
2,100.0	6.77	67.68	2,096.3	-10.1	54.7	0.20	-0.19	0.55	21.0	-26.4				
2,194.0	6.68	66.89	2,189.7	-5.9	64.8	0.14	-0.10	-0.84	20.2	-25.5				
2,288.0	6.51	66.45	2,283.1	-1.6	74.7	0.19	-0.18	-0.47	19.4	-24.7				
2,382.0	6.51	65.05	2,376.4	2.8	84.5	0.17	0.00	-1.49	19.1	-23.3				
2,477.0	6.42	63.29	2,470.8	7.4	94.1	0.23	-0.09	-1.85	18.9	-21.6				
2,571.0	6.07	63.55	2,564.3	12.0	103.2	0.37	-0.37	0.28	18.3	-20.4				



Midland PVA

Company: EOG Resources - Midland			Local Co-ordinate Reference:			Well #309H				
Project: Lea County, NM (NAD 83 NME)			TVD Reference:			KB=25 @ 3522.0usft				
Site: Stonewall 28 Fed Com			MD Reference:			KB=25 @ 3522.0usft				
Well: #309H			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)
2,665.0	5.89	62.50	2,657.8	16.5	112.0	0.22	-0.19	-1.12	18.7	-18.7
2,760.0	5.80	62.67	2,752.3	20.9	120.5	0.10	-0.09	0.18	18.8	-17.4
2,854.0	7.30	67.33	2,845.7	25.4	130.3	1.69	1.60	4.96	16.4	-17.8
2,949.0	7.12	67.42	2,939.9	30.0	141.3	0.19	-0.19	0.09	14.3	-17.3
3,043.0	6.86	67.51	3,033.2	34.4	151.8	0.28	-0.28	0.10	12.7	-16.7
3,138.0	6.60	67.24	3,127.6	38.6	162.1	0.28	-0.27	-0.28	11.5	-16.1
3,232.0	6.33	66.98	3,221.0	42.8	171.9	0.29	-0.29	-0.28	10.8	-15.4
3,326.0	6.24	68.39	3,314.4	46.7	181.4	0.19	-0.10	1.50	10.0	-15.1
3,421.0	5.98	70.14	3,408.9	50.3	190.8	0.34	-0.27	1.84	9.4	-15.1
3,515.0	6.07	71.64	3,502.3	53.5	200.2	0.19	0.10	1.60	8.9	-15.4
3,609.0	5.72	72.25	3,595.8	56.5	209.3	0.38	-0.37	0.65	8.9	-15.6
3,703.0	5.54	73.57	3,689.4	59.2	218.2	0.24	-0.19	1.40	9.2	-16.2
3,797.0	5.63	75.42	3,782.9	61.6	227.0	0.21	0.10	1.97	9.3	-17.1
3,891.0	6.24	74.80	3,876.4	64.1	236.4	0.65	0.65	-0.66	9.6	-17.8
3,986.0	5.72	74.89	3,970.9	66.7	245.9	0.55	-0.55	0.09	9.6	-18.5
4,080.0	6.42	70.06	4,064.4	69.7	255.4	0.92	0.74	-5.14	11.0	-17.9
4,174.0	8.27	66.37	4,157.6	74.2	266.5	2.03	1.97	-3.93	9.9	-16.7
4,269.0	7.91	64.52	4,251.7	79.8	278.7	0.47	-0.38	-1.95	6.9	-15.5
4,363.0	7.56	64.70	4,344.8	85.2	290.1	0.37	-0.37	0.19	4.0	-14.5
4,457.0	7.21	65.22	4,438.0	90.3	301.0	0.38	-0.37	0.55	1.5	-13.5
4,552.0	7.30	67.07	4,532.3	95.2	312.0	0.26	0.09	1.95	-1.0	-12.7
4,646.0	7.12	73.13	4,625.5	99.2	323.1	0.83	-0.19	6.45	-4.3	-12.3
4,740.0	7.03	77.53	4,718.8	102.1	334.3	0.58	-0.10	4.68	-7.0	-12.6
4,834.0	6.77	79.64	4,812.1	104.4	345.4	0.39	-0.28	2.24	-9.1	-13.6
4,929.0	7.03	83.86	4,906.4	106.0	356.6	0.60	0.27	4.44	-11.8	-14.8
5,023.0	7.21	85.88	4,999.7	107.0	368.2	0.33	0.19	2.15	-14.4	-16.7
5,118.0	7.56	78.93	5,093.9	108.7	380.3	1.01	0.37	-7.32	-14.7	-20.4



Midland PVA

Company: EOG Resources - Midland			Local Co-ordinate Reference:							Well #309H	
Project: Lea County, NM (NAD 83 NME)			TVD Reference:							KB=25 @ 3522.0usft	
Site: Stonewall 28 Fed Com			MD Reference:							KB=25 @ 3522.0usft	
Well: #309H			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)	
5,197.0	7.03	79.37	5,172.3	110.6	390.2	0.67	-0.67	0.56	-16.7	-21.5	
5,305.0	6.33	79.20	5,279.6	112.9	402.5	0.65	-0.65	-0.16	-18.0	-23.2	
5,400.0	5.54	65.40	5,374.1	115.8	411.8	1.71	-0.83	-14.53	-11.8	-27.1	
5,494.0	5.89	60.39	5,467.6	120.1	420.2	0.65	0.37	-5.33	-9.0	-26.7	
5,589.0	6.07	57.93	5,562.1	125.1	428.6	0.33	0.19	-2.59	-8.1	-25.0	
5,683.0	5.98	56.35	5,655.6	130.5	436.9	0.20	-0.10	-1.68	-7.8	-22.9	
5,777.0	4.13	61.62	5,749.2	134.8	444.0	2.03	-1.97	5.61	-8.4	-20.1	
5,871.0	4.40	60.83	5,842.9	138.2	450.1	0.29	0.29	-0.84	-7.6	-18.9	
5,966.0	3.52	79.72	5,937.7	140.5	456.2	1.64	-0.93	19.88	-15.1	-15.0	
6,060.0	2.90	90.71	6,031.6	140.9	461.4	0.93	-0.66	11.69	-21.5	-11.8	
6,154.0	0.88	169.46	6,125.5	140.2	463.9	3.04	-2.15	83.78	-16.9	21.2	
6,249.0	1.32	204.35	6,220.5	138.5	463.6	0.82	0.46	36.73	-3.5	27.5	
6,343.0	1.32	209.63	6,314.5	136.6	462.6	0.13	0.00	5.62	-3.1	27.8	
6,437.0	1.23	204.88	6,408.4	134.7	461.6	0.15	-0.10	-5.05	-7.5	27.3	
6,532.0	1.23	204.79	6,503.4	132.9	460.8	0.00	0.00	-0.09	-9.6	27.3	
6,626.0	1.14	207.34	6,597.4	131.1	459.9	0.11	-0.10	2.71	-10.3	27.8	
6,721.0	0.97	203.30	6,692.4	129.5	459.2	0.20	-0.18	-4.25	-14.0	26.9	
6,815.0	1.23	195.83	6,786.4	127.8	458.6	0.32	0.28	-7.95	-19.1	24.7	
6,909.0	1.23	198.20	6,880.3	125.9	458.0	0.05	0.00	2.52	-20.1	25.6	
7,004.0	1.06	199.17	6,975.3	124.1	457.4	0.18	-0.18	1.02	-21.6	25.9	
7,098.0	0.88	198.11	7,069.3	122.6	456.9	0.19	-0.19	-1.13	-23.6	25.5	
7,193.0	0.70	213.49	7,164.3	121.4	456.3	0.29	-0.19	16.19	-17.3	31.0	
7,287.0	0.70	218.94	7,258.3	120.5	455.7	0.07	0.00	5.80	-15.4	32.6	
7,382.0	0.44	223.43	7,353.3	119.8	455.0	0.28	-0.27	4.73	-13.8	33.8	
7,475.0	0.53	242.67	7,446.3	119.3	454.4	0.20	0.10	20.69	-2.7	36.5	
7,570.0	0.44	255.68	7,541.3	119.0	453.7	0.15	-0.09	13.69	4.8	36.3	
7,664.0	0.62	261.57	7,635.3	118.9	452.8	0.20	0.19	6.27	7.7	35.6	



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #309H
Project:	Lea County, NM (NAD 83 NIME)	TVD Reference:	KB=25 @ 3522.0usft
Site:	Stonewall 28 Fed Com	MD Reference:	KB=25 @ 3522.0usft
Well:	#309H	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)
	7,758.0	0.62	245.49	7,729.3	118.6	451.8	0.18	0.00	-17.11	-3.5	36.2
	7,852.0	0.70	248.83	7,823.3	118.2	450.8	0.09	0.09	3.55	-2.5	36.4
	7,946.0	0.70	223.95	7,917.3	117.5	449.9	0.32	0.00	-26.47	-18.6	31.7
	8,040.0	0.62	235.12	8,011.3	116.8	449.1	0.16	-0.09	11.88	-13.2	34.9
	8,135.0	0.44	252.43	8,106.3	116.4	448.3	0.25	-0.19	18.22	-3.1	37.4
	8,228.0	0.62	255.07	8,199.3	116.2	447.5	0.20	0.19	2.84	-2.2	37.5
	8,323.0	0.62	268.07	8,294.2	116.0	446.5	0.15	0.00	13.68	5.2	37.1
	8,417.0	0.70	274.84	8,388.2	116.1	445.4	0.12	0.09	7.20	8.5	36.3
	8,511.0	0.79	278.53	8,482.2	116.2	444.2	0.11	0.10	3.93	9.6	35.7
	8,605.0	0.79	279.06	8,576.2	116.4	442.9	0.01	0.00	0.56	8.6	35.7
	8,699.0	0.88	290.49	8,670.2	116.8	441.6	0.20	0.10	12.16	14.2	33.4
	8,793.0	0.88	290.40	8,764.2	117.3	440.3	0.00	0.00	-0.10	12.7	33.4
	8,888.0	1.06	293.47	8,859.2	117.9	438.8	0.20	0.19	3.23	12.8	32.7
	8,982.0	1.06	297.34	8,953.2	118.6	437.2	0.08	0.00	4.12	13.3	31.8
	9,076.0	1.23	296.37	9,047.2	119.5	435.5	0.18	0.18	-1.03	10.9	32.0
	9,171.0	1.32	304.81	9,142.1	120.6	433.7	0.22	0.09	8.88	13.3	30.2
	9,265.0	1.23	306.04	9,236.1	121.8	432.0	0.10	-0.10	1.31	11.9	30.0
	9,358.0	1.32	320.19	9,329.1	123.2	430.5	0.35	0.10	15.22	16.8	26.4
	9,453.0	0.70	297.69	9,424.1	124.3	429.3	0.76	-0.65	-23.68	3.9	30.4
	9,544.0	0.53	245.66	9,515.1	124.4	428.4	0.62	-0.19	-57.18	-22.4	21.3
	9,662.0	0.97	191.61	9,633.1	123.2	427.7	0.67	0.37	-45.81	-31.7	-6.0
	9,709.0	9.15	183.70	9,679.8	119.0	427.4	17.43	17.40	-16.83	-34.3	-10.5
	9,756.0	16.53	189.06	9,725.6	108.7	426.1	15.89	15.70	11.40	-41.9	-7.6
	9,803.0	23.92	186.60	9,769.7	92.6	423.9	15.82	15.72	-5.23	-50.2	-10.8
	9,851.0	26.47	184.49	9,813.1	72.3	422.0	5.63	5.31	-4.40	-58.6	-14.1
	9,898.0	29.90	183.08	9,854.6	50.1	420.5	7.43	7.30	-3.00	-65.1	-16.8
	9,945.0	33.50	180.45	9,894.5	25.4	419.8	8.20	7.66	-5.60	-69.7	-20.4



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #309H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB=25 @ 3522.0usft
Site:	Stonewall 28 Fed Com	MD Reference:	KB=25 @ 3522.0usft
Well:	#309H	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)
	9,992.0	35.17	177.37	9,933.3	-1.0	420.3	5.13	3.55	-6.55	-71.9	-23.3
	10,039.0	36.32	177.99	9,971.5	-28.5	421.4	2.57	2.45	1.32	-72.1	-21.7
	10,102.0	40.10	177.99	10,021.0	-67.4	422.8	6.00	6.00	0.00	-67.9	-20.6
	10,133.0	43.09	176.40	10,044.2	-88.0	423.8	10.23	9.65	-5.13	-64.4	-20.8
	10,228.0	50.56	178.51	10,109.1	-157.1	426.8	8.03	7.86	2.22	-52.3	-16.7
	10,322.0	61.91	180.01	10,161.3	-235.1	427.8	12.15	12.07	1.60	-38.6	-15.9
	10,416.0	74.57	178.43	10,196.1	-322.2	429.0	13.56	13.47	-1.68	-28.0	-15.6
	10,452.0	81.16	178.07	10,203.6	-357.4	430.1	18.33	18.31	-1.00	-25.7	-14.8
	10,510.0	87.76	179.92	10,209.2	-415.1	431.1	11.81	11.38	3.19	-23.7	-14.3
	10,604.0	87.67	180.27	10,213.0	-509.0	430.9	0.38	-0.10	0.37	-20.5	-15.3
	10,698.0	89.43	179.04	10,215.4	-603.0	431.5	2.28	1.87	-1.31	-18.7	-15.6
	10,792.0	89.25	178.51	10,216.4	-697.0	433.5	0.60	-0.19	-0.56	-18.2	-14.5
	10,886.0	88.99	177.46	10,217.9	-790.9	436.8	1.15	-0.28	-1.12	-17.4	-12.1
	10,980.0	88.55	177.63	10,219.9	-884.8	440.8	0.50	-0.47	0.18	-15.9	-9.0
	11,074.0	89.87	179.57	10,221.2	-978.7	443.1	2.50	1.40	2.06	-15.2	-7.5
	11,169.0	88.81	179.39	10,222.3	-1,073.7	444.0	1.13	-1.12	-0.19	-14.7	-7.6
	11,263.0	90.57	180.36	10,222.8	-1,167.7	444.2	2.14	1.87	1.03	-14.8	-8.3
	11,357.0	90.57	180.54	10,221.9	-1,261.7	443.5	0.19	0.00	0.19	-16.3	-9.9
	11,451.0	90.48	180.18	10,221.0	-1,355.7	442.9	0.39	-0.10	-0.38	-17.7	-11.4
	11,545.0	90.31	179.83	10,220.4	-1,449.7	442.9	0.41	-0.18	-0.37	-19.0	-12.3
	11,639.0	89.25	179.57	10,220.7	-1,543.7	443.3	1.16	-1.13	-0.28	-19.2	-12.6
	11,734.0	88.20	178.95	10,222.8	-1,638.7	444.6	1.28	-1.11	-0.65	-17.7	-12.3
	11,828.0	91.36	180.10	10,223.2	-1,732.6	445.4	3.58	3.36	1.22	-17.9	-12.4
	11,922.0	91.98	180.45	10,220.4	-1,826.6	444.9	0.76	0.66	0.37	-21.2	-13.8
	12,016.0	91.80	179.57	10,217.3	-1,920.5	444.9	0.96	-0.19	-0.94	-24.9	-14.7
	12,111.0	90.40	180.27	10,215.5	-2,015.5	445.0	1.65	-1.47	0.74	-27.3	-15.4
	12,205.0	89.16	179.92	10,215.9	-2,109.5	444.9	1.37	-1.32	-0.37	-27.5	-16.5



Midland PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #309H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB=25 @ 3522.0usft
Site:	Stonewall 28 Fed Com	MD Reference:	KB=25 @ 3522.0usft
Well:	#309H	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)
	12,299.0	88.55	179.92	10,217.8	-2,203.5	445.0	0.65	-0.65	0.00	-26.2	-17.2
	12,393.0	88.99	180.18	10,219.8	-2,297.5	444.9	0.54	0.47	0.28	-24.8	-18.2
	12,488.0	89.16	179.39	10,221.3	-2,392.5	445.3	0.85	0.18	-0.83	-23.9	-18.7
	12,582.0	88.11	179.04	10,223.6	-2,486.4	446.6	1.18	-1.12	-0.37	-23.4	-18.3
	12,676.0	86.97	178.43	10,227.6	-2,580.3	448.6	1.38	-1.21	-0.65	-21.1	-17.2
	12,771.0	84.86	176.84	10,234.4	-2,675.0	452.5	2.78	-2.22	-1.67	-16.0	-14.2
	12,865.0	86.97	177.72	10,241.1	-2,768.6	457.0	2.43	2.24	0.94	-11.1	-10.6
	12,959.0	89.08	178.25	10,244.3	-2,862.5	460.3	2.31	2.24	0.56	-9.6	-8.1
	13,054.0	89.43	177.99	10,245.5	-2,957.5	463.4	0.46	0.37	-0.27	-10.1	-5.9
	13,148.0	89.25	177.81	10,246.6	-3,051.4	466.8	0.27	-0.19	-0.19	-10.7	-3.4
	13,242.0	88.99	178.34	10,248.1	-3,145.3	470.0	0.63	-0.28	0.56	-11.0	-1.1
	13,336.0	87.49	177.99	10,250.9	-3,239.2	473.0	1.64	-1.60	-0.37	-9.8	1.0
	13,430.0	88.72	177.55	10,254.0	-3,333.1	476.7	1.39	1.31	-0.47	-8.5	3.8
	13,525.0	88.81	178.07	10,256.1	-3,428.0	480.3	0.56	0.09	0.55	-8.4	6.5
	13,619.0	89.16	177.90	10,257.8	-3,521.9	483.6	0.41	0.37	-0.18	-8.8	9.0
	13,713.0	88.81	177.90	10,259.4	-3,615.9	487.0	0.37	-0.37	0.00	-9.1	11.5
	13,807.0	88.99	180.45	10,261.2	-3,709.8	488.4	2.72	0.19	2.71	-9.4	12.0
	13,901.0	88.90	180.36	10,263.0	-3,803.8	487.7	0.14	-0.10	-0.10	-9.7	10.4
	13,996.0	88.90	180.89	10,264.8	-3,898.8	486.7	0.56	0.00	0.56	-9.9	8.5
	14,090.0	88.20	179.83	10,267.2	-3,992.8	486.1	1.35	-0.74	-1.13	-9.6	7.0
	14,184.0	87.58	179.30	10,270.6	-4,086.7	486.8	0.87	-0.66	-0.56	-8.2	6.9
	14,278.0	87.32	178.78	10,274.8	-4,180.6	488.4	0.62	-0.28	-0.55	-6.1	7.5
	14,373.0	88.55	179.30	10,278.2	-4,275.5	490.0	1.41	1.29	0.55	-4.7	8.2
	14,467.0	90.04	180.71	10,279.4	-4,369.5	490.0	2.18	1.59	1.50	-5.6	7.3
	14,561.0	89.87	180.01	10,279.5	-4,463.5	489.4	0.77	-0.18	-0.74	-7.6	5.9
	14,656.0	90.84	181.15	10,278.9	-4,558.5	488.4	1.58	1.02	1.20	-10.2	4.0
	14,750.0	90.04	180.45	10,278.2	-4,652.5	487.1	1.13	-0.85	-0.74	-13.0	1.8



Midland PVA

Company: EOG Resources - Midland			Local Co-ordinate Reference:				Well #309H			
Project: Lea County, NM (NAD 83 NME)			TVD Reference:				KB=25 @ 3522.0usft			
Site: Stonewall 28 Fed Com			MD Reference:				KB=25 @ 3522.0usft			
Well: #309H			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)
14,844.0	89.69	180.80	10,278.4	-4,746.5	486.1	0.53	-0.37	0.37	-14.8	-0.1
14,938.0	88.29	179.83	10,280.0	-4,840.4	485.6	1.81	-1.49	-1.03	-15.2	-1.5
15,032.0	90.48	181.33	10,281.0	-4,934.4	484.6	2.82	2.33	1.60	-16.3	-3.3
15,126.0	90.31	180.80	10,280.4	-5,028.4	482.9	0.59	-0.18	-0.56	-18.9	-6.0
15,221.0	85.30	179.04	10,284.0	-5,123.3	483.0	5.59	-5.27	-1.85	-16.5	-6.7
15,315.0	87.23	179.04	10,290.2	-5,217.1	484.6	2.05	2.05	0.00	-11.5	-6.0
15,409.0	90.40	179.92	10,292.1	-5,311.0	485.4	3.50	3.37	0.94	-10.7	-6.1
15,503.0	89.52	179.13	10,292.2	-5,405.0	486.2	1.26	-0.94	-0.84	-11.8	-6.2
15,597.0	88.46	178.95	10,293.8	-5,499.0	487.8	1.14	-1.13	-0.19	-11.4	-5.5
15,641.0	90.04	180.36	10,294.4	-5,543.0	488.0	4.81	3.59	3.20	-11.3	-5.6
15,691.0	89.52	180.01	10,294.6	-5,593.0	487.9	1.25	-1.04	-0.70	-11.7	-6.3
15,786.0	92.33	180.80	10,293.1	-5,688.0	487.2	3.07	2.96	0.83	-14.5	-7.9
15,879.0	91.10	180.71	10,290.3	-5,780.9	486.0	1.33	-1.32	-0.10	-18.4	-9.9
15,973.0	90.48	179.57	10,289.0	-5,874.9	485.8	1.38	-0.66	-1.21	-20.9	-11.1
16,068.0	89.43	180.10	10,289.0	-5,969.9	486.0	1.24	-1.11	0.56	-22.0	-11.7
16,162.0	90.75	180.71	10,288.9	-6,063.9	485.4	1.55	1.40	0.65	-23.3	-13.2
16,256.0	86.26	179.39	10,291.4	-6,157.9	485.3	4.98	-4.78	-1.40	-22.0	-14.2
16,351.0	89.52	179.48	10,294.8	-6,252.8	486.2	3.43	3.43	0.09	-19.7	-14.2
16,445.0	90.13	178.51	10,295.1	-6,346.8	487.9	1.22	0.65	-1.03	-20.3	-13.4
16,539.0	88.11	178.34	10,296.6	-6,440.7	490.5	2.16	-2.15	-0.18	-19.6	-11.7
16,633.0	90.92	179.30	10,297.4	-6,534.7	492.4	3.16	2.99	1.02	-19.6	-10.7
16,727.0	90.04	178.16	10,296.6	-6,628.6	494.5	1.53	-0.94	-1.21	-21.1	-9.5
16,821.0	89.25	178.16	10,297.2	-6,722.6	497.5	0.84	-0.84	0.00	-21.2	-7.3
16,915.0	91.71	178.60	10,296.4	-6,816.5	500.1	2.66	2.62	0.47	-22.8	-5.6
17,010.0	90.57	178.34	10,294.5	-6,911.5	502.7	1.23	-1.20	-0.27	-25.4	-3.9
17,104.0	91.10	178.07	10,293.1	-7,005.4	505.6	0.63	0.56	-0.29	-27.5	-1.9
17,198.0	88.29	177.11	10,293.6	-7,099.3	509.6	3.16	-2.99	-1.02	-27.7	1.2



Midland PVA

Company: EOG Resources - Midland				Local Co-ordinate Reference:				Well #309H			
Project:	Lea County, NM (NAD 83 NME)			TVD Reference:	KB=25 @ 3522.0usft			KB=25 @ 3522.0usft			
Site:	Stonewall 28 Fed Com			MD Reference:	KB=25 @ 3522.0usft			Grid			
Well:	#309H			North Reference:				Minimum Curvature			
Wellbore:	OH			Survey Calculation Method:				EDM 5000.14			
Design:	OH			Database:							
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)
	17,292.0	88.55	178.25	10,296.2	-7,193.2	513.4	1.24	0.28	1.21	-25.9	4.1
	17,387.0	88.11	179.13	10,299.0	-7,288.2	515.6	1.04	-0.46	0.93	-23.9	5.4
	17,481.0	88.90	179.39	10,301.4	-7,382.1	516.8	0.88	0.84	0.28	-22.2	5.7
	17,576.0	89.08	179.30	10,303.1	-7,477.1	517.9	0.21	0.19	-0.09	-21.2	5.9
	17,670.0	89.34	179.48	10,304.4	-7,571.1	518.9	0.34	0.28	0.19	-20.7	6.0
	17,764.0	89.96	178.51	10,305.0	-7,665.1	520.5	1.22	0.66	-1.03	-20.8	6.8
	17,859.0	92.42	179.74	10,303.0	-7,760.0	522.0	2.89	2.59	1.29	-23.5	7.4
	17,953.0	92.33	179.48	10,299.1	-7,853.9	522.6	0.29	-0.10	-0.28	-28.2	7.1
	18,048.0	92.24	179.04	10,295.3	-7,948.9	523.8	0.47	-0.09	-0.46	-32.7	7.5
	18,142.0	91.89	179.92	10,291.9	-8,042.8	524.7	1.01	-0.37	0.94	-36.8	7.4
	18,237.0	88.99	180.18	10,291.2	-8,137.8	524.6	3.06	-3.05	0.27	-38.3	6.4
	18,331.0	88.29	180.10	10,293.4	-8,231.7	524.4	0.75	-0.74	-0.09	-36.8	5.3
	18,425.0	90.57	180.18	10,294.4	-8,325.7	524.1	2.43	2.43	0.09	-36.6	4.2
	18,520.0	88.29	180.80	10,295.3	-8,420.7	523.3	2.49	-2.40	0.65	-36.4	2.5
	18,614.0	84.68	179.66	10,301.1	-8,514.5	522.9	4.03	-3.84	-1.21	-31.4	1.2
	18,708.0	85.91	180.80	10,308.8	-8,608.2	522.6	1.78	1.31	1.21	-24.4	0.0
	18,803.0	86.79	180.18	10,314.8	-8,703.0	521.7	1.13	0.93	-0.65	-19.1	-1.7
	18,896.0	89.87	180.27	10,317.5	-8,796.0	521.4	3.31	3.31	0.10	-17.1	-3.0
	18,991.0	91.19	180.97	10,316.7	-8,890.9	520.4	1.57	1.39	0.74	-18.7	-4.9
	19,085.0	92.51	181.24	10,313.6	-8,984.9	518.5	1.43	1.40	0.29	-22.4	-7.6
	19,180.0	91.63	181.59	10,310.2	-9,079.8	516.2	1.00	-0.93	0.37	-26.5	-10.8
	19,274.0	89.69	179.83	10,309.1	-9,173.8	515.0	2.79	-2.06	-1.87	-28.3	-12.9
	19,368.0	88.20	178.78	10,310.9	-9,267.7	516.2	1.94	-1.59	-1.12	-27.2	-12.6
	19,463.0	88.46	179.48	10,313.6	-9,362.7	517.6	0.79	0.27	0.74	-25.1	-12.1
	19,557.0	90.57	179.83	10,314.4	-9,456.7	518.2	2.28	2.24	0.37	-25.0	-12.4
	19,651.0	88.29	180.27	10,315.4	-9,550.7	518.1	2.47	-2.43	0.47	-24.7	-13.4
	19,746.0	85.82	178.43	10,320.2	-9,645.5	519.2	3.24	-2.60	-1.94	-20.5	-13.2



Midland PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Stonewall 28 Fed Com
Well: #309H
Wellbore: OH
Design: OH

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

Well #309H
KB=25 @ 3522.0usft
KB=25 @ 3522.0usft
Grid
Minimum Curvature
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)
	19,840.0	88.72	179.04	10,324.7	-9,739.4	521.2	3.15	3.09	0.65	-16.7	-12.0
	19,934.0	90.04	179.66	10,325.7	-9,833.4	522.3	1.55	1.40	0.66	-16.4	-11.8
	20,028.0	91.63	179.92	10,324.4	-9,927.3	522.7	1.71	1.69	0.28	-18.4	-12.4
	20,123.0	91.71	179.39	10,321.6	-10,022.3	523.2	0.56	0.08	-0.56	-21.8	-12.7
	20,217.0	91.01	178.51	10,319.4	-10,116.3	525.0	1.20	-0.74	-0.94	-24.7	-11.8
	20,288.0	91.98	178.60	10,317.5	-10,187.2	526.7	1.37	1.37	0.13	-27.1	-10.7
	20,347.0	91.98	178.60	10,315.5	-10,246.2	528.2	0.00	0.00	0.00	-29.5	-9.8

Design Annotations	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
	9,670.0	9,641.1	122.9	427.7	KOP, MD=9670.0', TVD=9641.1', N/S:122.9', EW:427.7', INC:2.36
	9,774.7	9,743.4	103.0	425.3	FTP Crossing, MD:9774.7', TVD:9743.4', N/S:103.0', EW:425.3', INC:19.47
	20,288.0	10,317.5	-10,187.2	526.7	Last MWD Survey (MD=20288.0')
	20,347.0	10,315.5	-10,246.2	528.2	Projection to Bit (MD=20347.0')

Checked By: _____ Approved By: _____ Date: _____

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

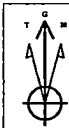
Larry Maddox 7/28/2020
Signed Date



Lea County, NM (NAD 83 NME)

Stonewall 28 Fed Com #309H

Plan #1



Azimuths to Grid North
True North: 4.48°
Magnetic North: 6.23°

Magnetic Field
Strength: 47726.6nT
Dip Angle: 60.03°
Date: 6/4/2019
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.24°
To convert a Magnetic Direction to a True Direction, Add 6.68° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

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: #309H

KB=25 @ 3522.0usft 3497.0
Northing 435825.00 Easting 806910.00 Latitude 32° 11' 42.884 N Longitude 103° 28' 28.203 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	1300.0	0.00	0.00	1300.0	0.0	0.0	0.00	0.00	0.0	
3	1600.2	6.00	70.83	1599.6	5.2	14.8	2.00	70.83	-4.4	
4	5753.7	6.00	70.83	5730.4	147.8	425.2	0.00	0.00	-125.3	
5	6053.9	0.00	0.00	6030.0	153.0	440.0	2.00	180.00	-129.7	
6	9683.9	0.00	0.00	9660.0	153.0	440.0	0.00	0.00	-129.7	
7	10580.3	89.65	179.46	10232.9	-416.4	445.4	10.00	179.46	439.2	TGT#1[SW 28 FC #309H]
8	12533.0	89.65	179.46	10245.0	-2368.9	463.8	0.00	0.00	2390.0	
9	12567.9	89.65	179.46	10245.4	-2403.9	464.1	2.00	180.00	2424.9	TGT#2[SW 28 FC #309H]
10	13524.1	88.55	179.46	10263.0	-3359.6	473.1	0.00	0.00	3360.0	
11	13533.9	88.75	179.46	10263.2	-3359.6	473.2	2.00	180.00	3359.8	
12	15176.0	88.75	179.46	10299.0	-5011.3	488.7	0.00	0.00	5030.0	TGT#3[SW 28 FC #309H]
13	15203.0	89.29	179.46	10299.5	-5038.3	488.9	2.00	0.00	5057.0	
14	16457.3	89.29	179.46	10315.0	-6292.4	500.8	0.00	0.00	6310.0	TGT#4[SW 28 FC #309H]
15	16470.3	89.55	179.46	10315.1	-6305.4	500.9	2.00	0.00	6323.0	
16	18999.7	89.55	179.46	10335.0	-8834.6	524.7	0.00	0.00	8850.0	TGT#5[SW 28 FC #309H]
17	19001.9	89.59	179.46	10335.0	-8836.6	524.7	2.00	0.00	8852.1	
18	20499.2	89.59	179.46	10345.0	-10244.0	538.0	0.00	0.00	10258.1	PBHL[SW 28 FC #309H]

CASING 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 #309H]	7634.0	153.0	440.0	435978.00	807356.00
FTP[SW 28 FC #309H]	10230.0	103.0	440.0	435928.00	807350.00
TGT#1[SW 28 FC #309H]	10245.0	-2508.9	463.8	435425.10	807391.77
TGT#2[SW 28 FC #309H]	10245.0	-2508.9	463.8	435425.10	807391.77
TGT#3[SW 28 FC #309H]	10299.0	-5011.3	488.7	430813.70	807406.58
TGT#4[SW 28 FC #309H]	10315.0	-6292.4	500.9	429522.80	807418.75
TGT#5[SW 28 FC #309H]	10335.0	-8834.6	524.7	426390.40	807442.72
PBHL[SW 28 FC #309H]	10345.0	-10244.0	538.0	425581.00	807456.00

