

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
1004452

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
STONEWALL 28 FED COM 301H

2. Name of Operator

EOG RESOURCES INCORPORATED

Contact: STAN WAGNER

E-Mail: stan_wagner@eogresources.com

9. API Well No.

30-025-44866-00-X1

3a. Address

MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-686-3689

10. Field and Pool or Exploratory Area

RED HILLS-UP BONE SPRING SHALE

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 28 T24S R34E NWNW 200FNL 627FWL
32.195251 N Lat, 103.481392 W Lon

11. County or Parish, State

LEA COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

EOG Resources requests an amendment to our approved APD for this well to reflect changes in BHL, TVD, casing, and well number.

Change BHL to: 230' FSL & 330' FWL 33-24S-34E

Change target TVD to: 10185' 1st BS Sand Red Hills; Bone Spring, North (96434)

Change well name/number to: Stonewall 28 Fed Com 301H

Change casing as attached.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #423642 verified by the BLM Well Information System
For EOG RESOURCES INCORPORATED, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 06/18/2018 (18PP1281SE)**

Name (Printed/Typed) STAN WAGNER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/12/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By MUSTAFA HAQUE

Title PETROLEUM ENGINEER

Date 07/25/2018

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED *****KZ*

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 30-025-44866		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 #301H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.		⁹ Elevation 3500'

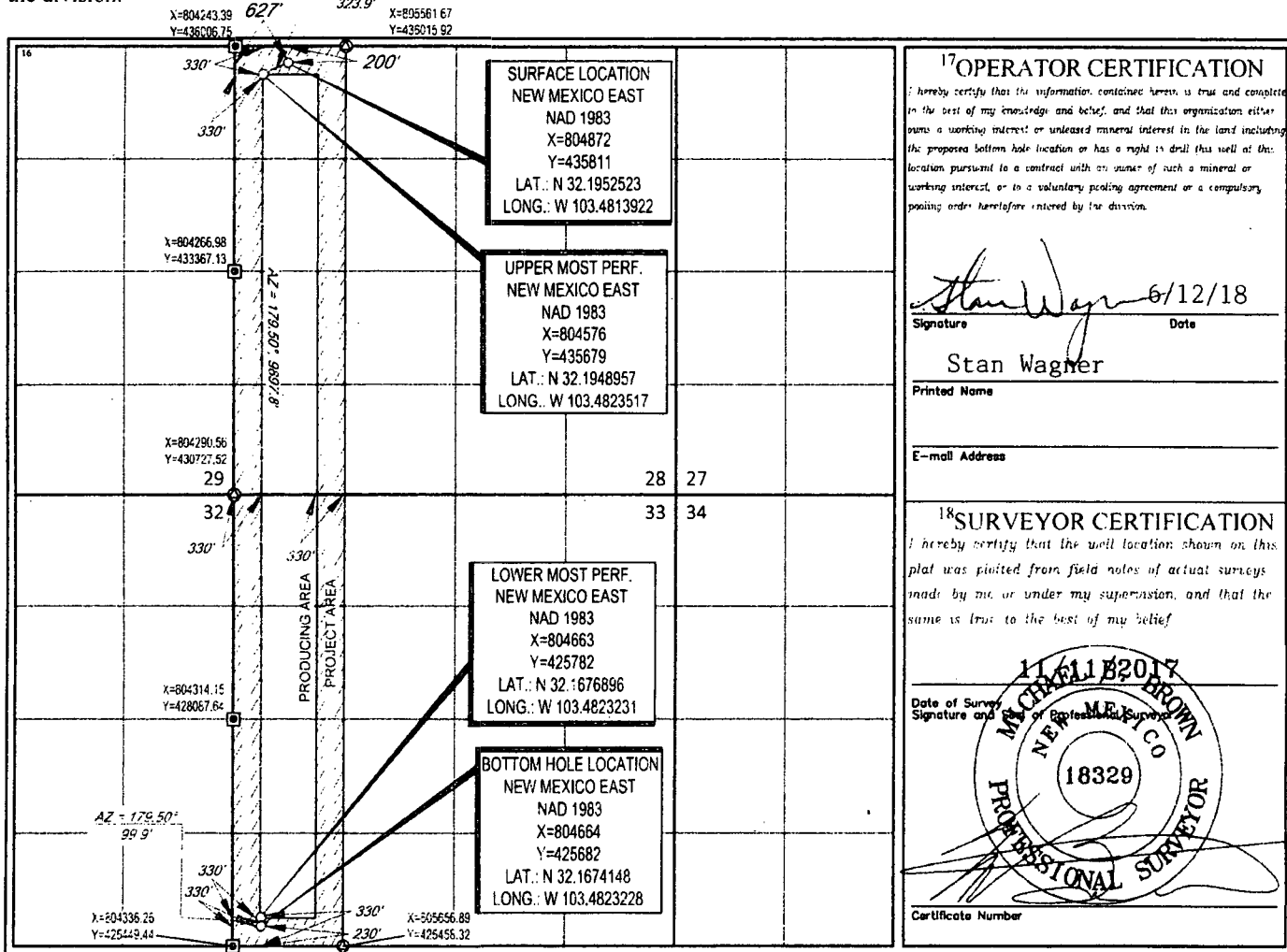
¹⁰Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	28	24-S	34-E	-	200'	NORTH	627'	WEST	LEA

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	33	24-S	34-E	-	230'	SOUTH	330'	WEST	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 in the best of my knowledge and belief, and that this organization either owns a working interest or undivided 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: *Stan Wagner* Date: 6/12/18
Printed Name: Stan Wagner
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: 6/12/2017
Signature and Seal: *Michael Brown*
Professional Surveyor
Certificate Number: 18329

Revised Permit Information 5/31/18:

Well Name: Stonewall 28 Fed Com. 301H

Location:

SL: 200' FNL & 627' FWL, Section 28, T-24-S, R-34-E, Lea Co., N.M.

BHL: 230' FSL & 330' FWL, Section 33, T-24-S, R-34-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 1150'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4100'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4100' - 5100'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-20,263'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1150'	600	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,100'	900	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface)
	225	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
20,263'	375	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 (TOC @ 4600')
	400	11.8	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	2600	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

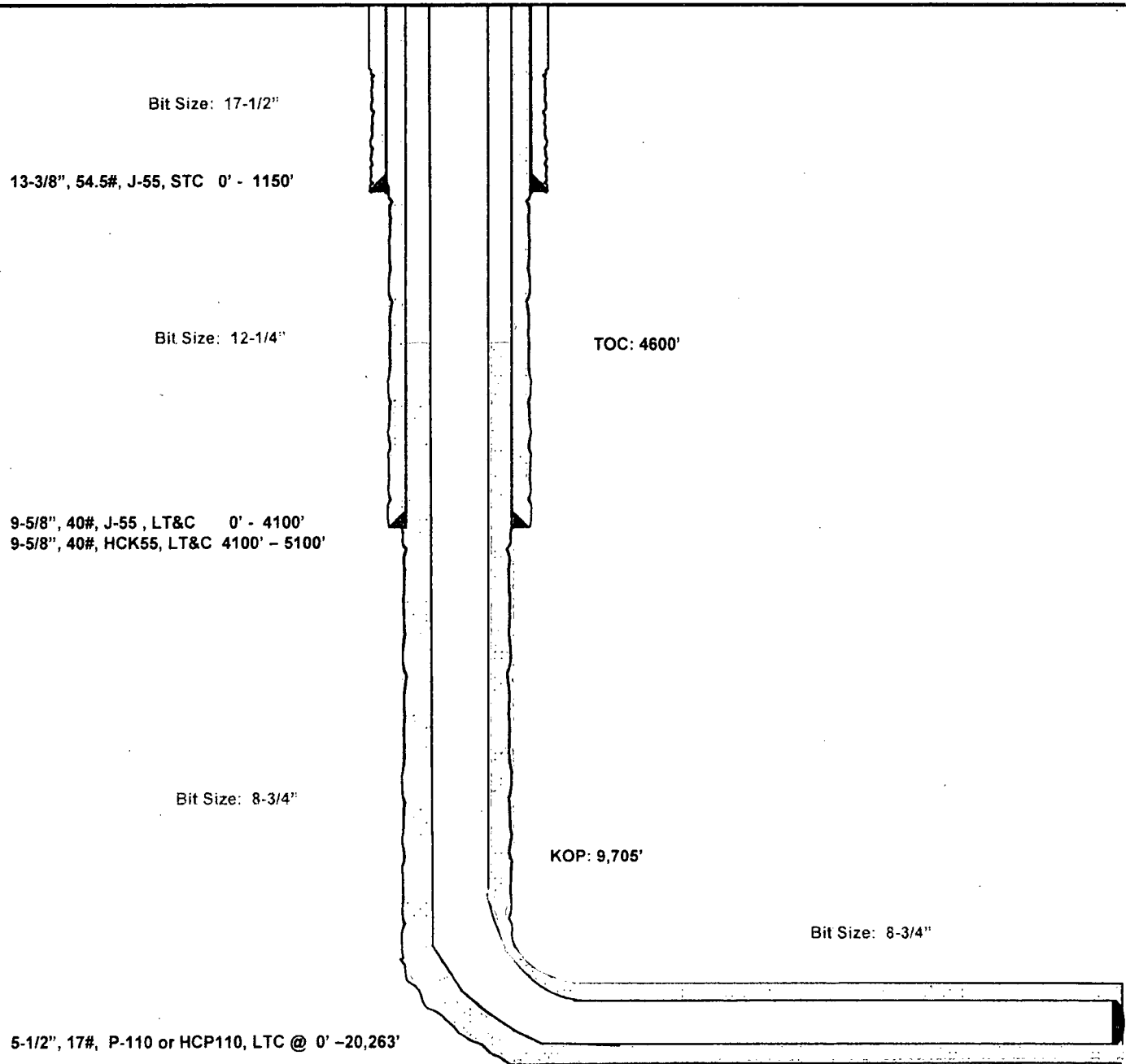
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1150'	Fresh - Gel	8.6-8.8	28-34	N/c
1150' - 5,100'	Brine	10.0-10.2	28-34	N/c
5,100' - 20,263'	Oil Base	10.0-11.5	58-68	N/c

**Stonewall 28 Fed Com #301H
Lea County, New Mexico**

**200' FNL
627' FWL
Section 28
T-24-S, R-34-E**

**Proposed Wellbore
Revised 5/31/18
API: 30-025-*******

**KB: 3,525'
GL: 3,500'**



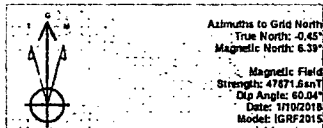
**Lateral: 20,263' MD, 10,185' TVD
Upper Most Perf:
330' FNL & 330' FWL Sec. 28
Lower Most Perf:
330' FSL & 330' FWL Sec. 33
BH Location: 230' FSL & 330' FWL
Section 33
T-24-S, R-34-E**



Lea County, NM (NAD 83 NME)

Stonewall 28 Fed Com #301H

Plan #0.2



Azimuths to Grid North
True North: 0.45°
Magnetic North: 6.39°
Magnetic Field
Strength: 47871.6 nT
Dip Angle: 60.04°
Date: 1/10/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.39°
To convert a Magnetic Direction to a True Direction, Add 6.85° East
To convert a True Direction to a Grid Direction, Subtract 0.45°

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: #301H

KB = 25 @ 3525.0 uan
Northing 435811.00 Easting 804872.00 32° 11' 42.907 N 103° 28' 53.013 W

SECTION DETAILS

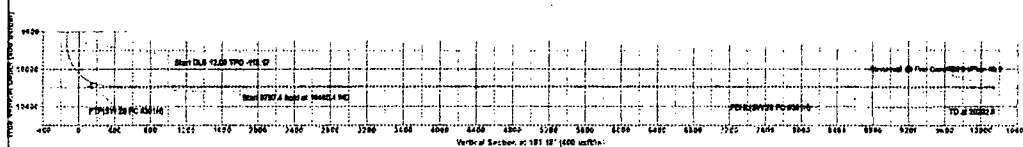
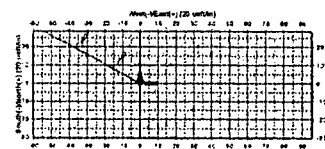
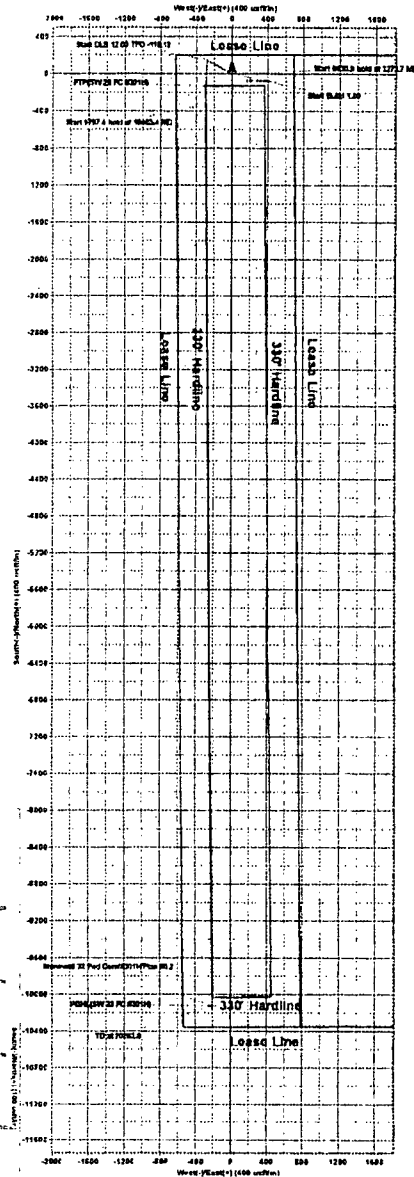
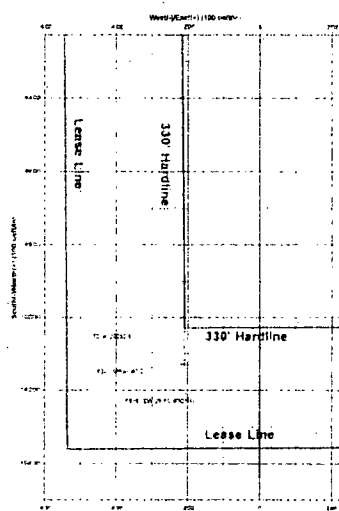
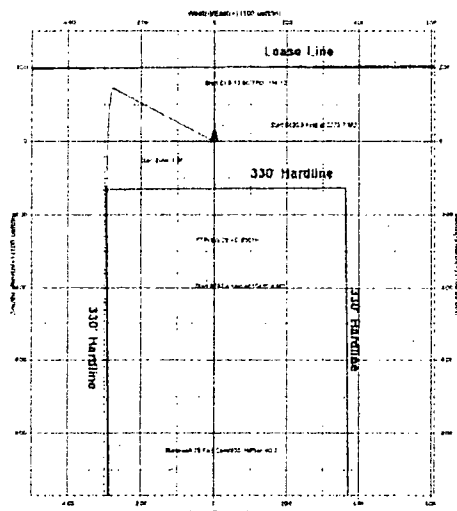
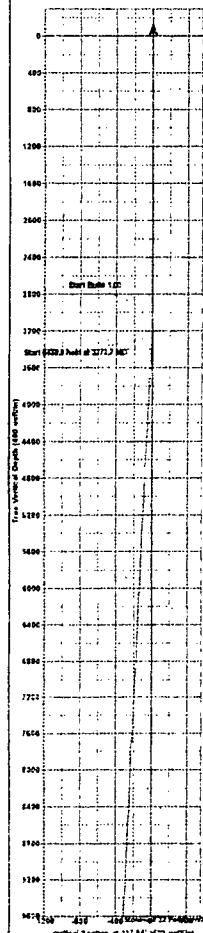
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3273.7	2.74	297.64	3273.6	3.0	-5.8	1.00	297.64	-2.9	
4	6704.7	2.74	297.64	9697.2	145.5	-277.9	0.00	0.00	-138.8	
5	10485.4	90.00	179.50	10185.0	-332.0	-294.2	12.00	-118.12	338.0	
6	20262.8	90.00	179.50	10185.0	-10129.0	-208.0	0.00	0.00	10131.1	PBHL(SW 28 FC #301H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
PTPSW 28 FC #301H	10185.0	-132.0	-296.0	435879.00	804876.00
PBHL(SW 28 FC #301H)	10185.0	-10129.0	-208.0	425692.00	804664.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Stonewall 28 Fed Com

#301H

OH

Plan: Plan #0.2

Standard Planning Report

31 May, 2018



Planning Report

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Stonewall 28 Fed Com
Well: #301H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #301H
TVD Reference: KB = 25 @ 3525.0usft
MD Reference: KB = 25 @ 3525.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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

Well	#301H		
Well Position	+N/-S	0.0 usft	Northing: 435,811.00 usft
	+E/-W	0.0 usft	Easting: 804,872.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,500.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	1/10/2018	(°) 6.85
			Dip Angle (°) 60.04
			Field Strength (nT) 47,871.64209687

Design	Plan #0.2		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction (°) 181.18

Plan/Survey Tool Program	Date 5/31/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
1 0.0	20,262.8	Plan #0.2 (OH)	MWD
			OWSG MWD - Standard

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,273.7	2.74	297.64	3,273.6	3.0	-5.8	1.00	1.00	0.00	297.64	
3,704.7	2.74	297.64	9,697.2	145.5	-277.9	0.00	0.00	0.00	0.00	
10,465.4	90.00	179.50	10,185.0	-332.0	-294.2	12.00	11.47	-15.53	-118.12	
20,262.8	90.00	179.50	10,185.0	-10,129.0	-208.0	0.00	0.00	0.00	0.00	PBHL(SW 28 FC #30



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Stonewall 28 Fed Com
 Well: #301H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #301H
 TVD Reference: KB = 25 @ 3525.0usft
 MD Reference: KB = 25 @ 3525.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	1.00	297.64	3,100.0	0.4	-0.8	-0.4	1.00	1.00	0.00
3,200.0	2.00	297.64	3,200.0	1.6	-3.1	-1.6	1.00	1.00	0.00
3,273.7	2.74	297.64	3,273.6	3.0	-5.8	-2.9	1.00	1.00	0.00
3,300.0	2.74	297.64	3,299.9	3.6	-6.9	-3.5	0.00	0.00	0.00
3,400.0	2.74	297.64	3,399.8	5.8	-11.1	-5.6	0.00	0.00	0.00
3,500.0	2.74	297.64	3,499.6	8.0	-15.4	-7.7	0.00	0.00	0.00
3,600.0	2.74	297.64	3,599.5	10.3	-19.6	-9.9	0.00	0.00	0.00
3,700.0	2.74	297.64	3,699.4	12.5	-23.8	-12.0	0.00	0.00	0.00
3,800.0	2.74	297.64	3,799.3	14.7	-28.1	-14.1	0.00	0.00	0.00
3,900.0	2.74	297.64	3,899.2	16.9	-32.3	-16.2	0.00	0.00	0.00
4,000.0	2.74	297.64	3,999.1	19.1	-36.5	-18.4	0.00	0.00	0.00
4,100.0	2.74	297.64	4,099.0	21.3	-40.7	-20.5	0.00	0.00	0.00
4,200.0	2.74	297.64	4,198.8	23.6	-45.0	-22.6	0.00	0.00	0.00
4,300.0	2.74	297.64	4,298.7	25.8	-49.2	-24.8	0.00	0.00	0.00
4,400.0	2.74	297.64	4,398.6	28.0	-53.4	-26.9	0.00	0.00	0.00
4,500.0	2.74	297.64	4,498.5	30.2	-57.7	-29.0	0.00	0.00	0.00
4,600.0	2.74	297.64	4,598.4	32.4	-61.9	-31.1	0.00	0.00	0.00
4,700.0	2.74	297.64	4,698.3	34.6	-66.1	-33.3	0.00	0.00	0.00
4,800.0	2.74	297.64	4,798.2	36.9	-70.4	-35.4	0.00	0.00	0.00
4,900.0	2.74	297.64	4,898.0	39.1	-74.6	-37.5	0.00	0.00	0.00
5,000.0	2.74	297.64	4,997.9	41.3	-78.8	-39.7	0.00	0.00	0.00
5,100.0	2.74	297.64	5,097.8	43.5	-83.1	-41.8	0.00	0.00	0.00
5,200.0	2.74	297.64	5,197.7	45.7	-87.3	-43.9	0.00	0.00	0.00



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Stonewall 28 Fed Com
 Well: #301H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #301H
 TVD Reference: KB = 25 @ 3525.0usft
 MD Reference: KB = 25 @ 3525.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	2.74	297.64	5,297.6	47.9	-91.5	-46.0	0.00	0.00	0.00
5,400.0	2.74	297.64	5,397.5	50.1	-95.8	-48.2	0.00	0.00	0.00
5,500.0	2.74	297.64	5,497.4	52.4	-100.0	-50.3	0.00	0.00	0.00
5,600.0	2.74	297.64	5,597.2	54.6	-104.2	-52.4	0.00	0.00	0.00
5,700.0	2.74	297.64	5,697.1	56.8	-108.4	-54.6	0.00	0.00	0.00
5,800.0	2.74	297.64	5,797.0	59.0	-112.7	-56.7	0.00	0.00	0.00
5,900.0	2.74	297.64	5,896.9	61.2	-116.9	-58.8	0.00	0.00	0.00
6,000.0	2.74	297.64	5,996.8	63.4	-121.1	-60.9	0.00	0.00	0.00
6,100.0	2.74	297.64	6,096.7	65.7	-125.4	-63.1	0.00	0.00	0.00
6,200.0	2.74	297.64	6,196.6	67.9	-129.6	-65.2	0.00	0.00	0.00
6,300.0	2.74	297.64	6,296.4	70.1	-133.8	-67.3	0.00	0.00	0.00
6,400.0	2.74	297.64	6,396.3	72.3	-138.1	-69.5	0.00	0.00	0.00
6,500.0	2.74	297.64	6,496.2	74.5	-142.3	-71.6	0.00	0.00	0.00
6,600.0	2.74	297.64	6,596.1	76.7	-146.5	-73.7	0.00	0.00	0.00
6,700.0	2.74	297.64	6,696.0	79.0	-150.8	-75.8	0.00	0.00	0.00
6,800.0	2.74	297.64	6,795.9	81.2	-155.0	-78.0	0.00	0.00	0.00
6,900.0	2.74	297.64	6,895.8	83.4	-159.2	-80.1	0.00	0.00	0.00
7,000.0	2.74	297.64	6,995.6	85.6	-163.4	-82.2	0.00	0.00	0.00
7,100.0	2.74	297.64	7,095.5	87.8	-167.7	-84.4	0.00	0.00	0.00
7,200.0	2.74	297.64	7,195.4	90.0	-171.9	-86.5	0.00	0.00	0.00
7,300.0	2.74	297.64	7,295.3	92.2	-176.1	-88.6	0.00	0.00	0.00
7,400.0	2.74	297.64	7,395.2	94.5	-180.4	-90.7	0.00	0.00	0.00
7,500.0	2.74	297.64	7,495.1	96.7	-184.6	-92.9	0.00	0.00	0.00
7,600.0	2.74	297.64	7,595.0	98.9	-188.8	-95.0	0.00	0.00	0.00
7,700.0	2.74	297.64	7,694.8	101.1	-193.1	-97.1	0.00	0.00	0.00
7,800.0	2.74	297.64	7,794.7	103.3	-197.3	-99.3	0.00	0.00	0.00
7,900.0	2.74	297.64	7,894.6	105.5	-201.5	-101.4	0.00	0.00	0.00
8,000.0	2.74	297.64	7,994.5	107.8	-205.8	-103.5	0.00	0.00	0.00
8,100.0	2.74	297.64	8,094.4	110.0	-210.0	-105.6	0.00	0.00	0.00
8,200.0	2.74	297.64	8,194.3	112.2	-214.2	-107.8	0.00	0.00	0.00
8,300.0	2.74	297.64	8,294.2	114.4	-218.4	-109.9	0.00	0.00	0.00
8,400.0	2.74	297.64	8,394.0	116.6	-222.7	-112.0	0.00	0.00	0.00
8,500.0	2.74	297.64	8,493.9	118.8	-226.9	-114.2	0.00	0.00	0.00
8,600.0	2.74	297.64	8,593.8	121.1	-231.1	-116.3	0.00	0.00	0.00
8,700.0	2.74	297.64	8,693.7	123.3	-235.4	-118.4	0.00	0.00	0.00
8,800.0	2.74	297.64	8,793.6	125.5	-239.6	-120.5	0.00	0.00	0.00
8,900.0	2.74	297.64	8,893.5	127.7	-243.8	-122.7	0.00	0.00	0.00
9,000.0	2.74	297.64	8,993.4	129.9	-248.1	-124.8	0.00	0.00	0.00
9,100.0	2.74	297.64	9,093.2	132.1	-252.3	-126.9	0.00	0.00	0.00
9,200.0	2.74	297.64	9,193.1	134.3	-256.5	-129.0	0.00	0.00	0.00
9,300.0	2.74	297.64	9,293.0	136.6	-260.8	-131.2	0.00	0.00	0.00
9,400.0	2.74	297.64	9,392.9	138.8	-265.0	-133.3	0.00	0.00	0.00
9,500.0	2.74	297.64	9,492.8	141.0	-269.2	-135.4	0.00	0.00	0.00
9,600.0	2.74	297.64	9,592.7	143.2	-273.4	-137.6	0.00	0.00	0.00
9,704.7	2.74	297.64	9,697.2	145.5	-277.9	-139.8	0.00	0.00	0.00
9,725.0	2.67	244.00	9,717.5	145.5	-278.7	-139.8	12.00	-0.31	-263.63
9,750.0	4.80	209.63	9,742.5	144.4	-279.8	-138.6	12.00	8.51	-137.50
9,775.0	7.55	198.06	9,767.3	141.9	-280.8	-136.1	12.00	10.98	-46.29
9,800.0	10.43	192.74	9,792.0	138.1	-281.8	-132.3	12.00	11.54	-21.28
9,825.0	13.37	189.72	9,816.5	133.1	-282.8	-127.2	12.00	11.74	-12.08
9,850.0	16.33	187.77	9,840.7	126.8	-283.8	-120.9	12.00	11.84	-7.78
9,875.0	19.30	186.41	9,864.5	119.2	-284.7	-113.3	12.00	11.88	-5.44
9,900.0	22.28	185.40	9,887.8	110.3	-285.6	-104.5	12.00	11.91	-4.03
9,925.0	25.26	184.62	9,910.7	100.3	-286.5	-94.4	12.00	11.93	-3.12



Planning Report

Database: EDM 5000.14
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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,950.0	28.25	184.00	9,933.0	89.1	-287.3	-83.2	12.00	11.95	-2.50
9,975.0	31.23	183.48	9,954.7	76.7	-288.1	-70.8	12.00	11.96	-2.06
10,000.0	34.23	183.05	9,975.8	63.2	-288.9	-57.3	12.00	11.96	-1.73
10,025.0	37.22	182.68	9,996.0	48.6	-289.6	-42.7	12.00	11.97	-1.49
10,050.0	40.21	182.35	10,015.6	33.0	-290.3	-27.1	12.00	11.97	-1.29
10,075.0	43.20	182.07	10,034.2	16.4	-290.9	-10.4	12.00	11.98	-1.14
10,100.0	46.20	181.81	10,052.0	-1.2	-291.5	7.2	12.00	11.98	-1.02
10,125.0	49.19	181.58	10,068.8	-19.7	-292.1	25.6	12.00	11.98	-0.92
10,150.0	52.19	181.37	10,084.6	-39.0	-292.6	45.0	12.00	11.98	-0.84
10,175.0	55.19	181.18	10,099.4	-59.1	-293.0	65.1	12.00	11.98	-0.78
10,200.0	58.18	180.99	10,113.2	-80.0	-293.4	86.0	12.00	11.98	-0.72
10,225.0	61.18	180.82	10,125.8	-101.6	-293.8	107.6	12.00	11.99	-0.68
10,250.0	64.18	180.66	10,137.3	-123.8	-294.1	129.8	12.00	11.99	-0.64
10,275.0	67.17	180.51	10,147.6	-146.6	-294.3	152.6	12.00	11.99	-0.61
10,275.1	67.17	180.51	10,147.6	-146.6	-294.3	152.6	0.00	0.00	0.00
FTP(SW 28 FC #301H)									
10,300.0	70.17	180.37	10,156.7	-169.9	-294.5	175.9	12.03	12.02	-0.58
10,325.0	73.17	180.23	10,164.5	-193.6	-294.6	199.6	12.00	11.99	-0.56
10,350.0	76.16	180.09	10,171.1	-217.7	-294.7	223.7	12.00	11.99	-0.54
10,375.0	79.16	179.96	10,176.5	-242.1	-294.7	248.1	12.00	11.99	-0.53
10,400.0	82.16	179.83	10,180.5	-266.8	-294.6	272.8	12.00	11.99	-0.52
10,425.0	85.15	179.70	10,183.3	-291.6	-294.5	297.6	12.00	11.99	-0.51
10,450.0	88.15	179.57	10,184.8	-316.6	-294.4	322.5	12.00	11.99	-0.51
10,465.4	90.00	179.50	10,185.0	-332.0	-294.2	338.0	12.00	11.99	-0.51
10,500.0	90.00	179.50	10,185.0	-366.6	-293.9	372.5	0.00	0.00	0.00
10,600.0	90.00	179.50	10,185.0	-466.6	-293.1	472.5	0.00	0.00	0.00
10,700.0	90.00	179.50	10,185.0	-566.6	-292.2	572.4	0.00	0.00	0.00
10,800.0	90.00	179.50	10,185.0	-666.6	-291.3	672.4	0.00	0.00	0.00
10,900.0	90.00	179.50	10,185.0	-766.6	-290.4	772.4	0.00	0.00	0.00
11,000.0	90.00	179.50	10,185.0	-866.5	-289.5	872.3	0.00	0.00	0.00
11,100.0	90.00	179.50	10,185.0	-966.5	-288.7	972.3	0.00	0.00	0.00
11,200.0	90.00	179.50	10,185.0	-1,066.5	-287.8	1,072.2	0.00	0.00	0.00
11,300.0	90.00	179.50	10,185.0	-1,166.5	-286.9	1,172.2	0.00	0.00	0.00
11,400.0	90.00	179.50	10,185.0	-1,266.5	-286.0	1,272.1	0.00	0.00	0.00
11,500.0	90.00	179.50	10,185.0	-1,366.5	-285.1	1,372.1	0.00	0.00	0.00
11,600.0	90.00	179.50	10,185.0	-1,466.5	-284.3	1,472.1	0.00	0.00	0.00
11,700.0	90.00	179.50	10,185.0	-1,566.5	-283.4	1,572.0	0.00	0.00	0.00
11,800.0	90.00	179.50	10,185.0	-1,666.5	-282.5	1,672.0	0.00	0.00	0.00
11,900.0	90.00	179.50	10,185.0	-1,766.5	-281.6	1,771.9	0.00	0.00	0.00
12,000.0	90.00	179.50	10,185.0	-1,866.5	-280.7	1,871.9	0.00	0.00	0.00
12,100.0	90.00	179.50	10,185.0	-1,966.5	-279.9	1,971.8	0.00	0.00	0.00
12,200.0	90.00	179.50	10,185.0	-2,066.5	-279.0	2,071.8	0.00	0.00	0.00
12,300.0	90.00	179.50	10,185.0	-2,166.5	-278.1	2,171.7	0.00	0.00	0.00
12,400.0	90.00	179.50	10,185.0	-2,266.5	-277.2	2,271.7	0.00	0.00	0.00
12,500.0	90.00	179.50	10,185.0	-2,366.5	-276.3	2,371.7	0.00	0.00	0.00
12,600.0	90.00	179.50	10,185.0	-2,466.5	-275.5	2,471.6	0.00	0.00	0.00
12,700.0	90.00	179.50	10,185.0	-2,566.5	-274.6	2,571.6	0.00	0.00	0.00
12,800.0	90.00	179.50	10,185.0	-2,666.5	-273.7	2,671.5	0.00	0.00	0.00
12,900.0	90.00	179.50	10,185.0	-2,766.5	-272.8	2,771.5	0.00	0.00	0.00
13,000.0	90.00	179.50	10,185.0	-2,866.5	-271.9	2,871.4	0.00	0.00	0.00
13,100.0	90.00	179.50	10,185.0	-2,966.5	-271.0	2,971.4	0.00	0.00	0.00
13,200.0	90.00	179.50	10,185.0	-3,066.5	-270.2	3,071.4	0.00	0.00	0.00
13,300.0	90.00	179.50	10,185.0	-3,166.5	-269.3	3,171.3	0.00	0.00	0.00



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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.0	90.00	179.50	10,185.0	-3,266.5	-268.4	3,271.3	0.00	0.00	0.00
13,500.0	90.00	179.50	10,185.0	-3,366.4	-267.5	3,371.2	0.00	0.00	0.00
13,600.0	90.00	179.50	10,185.0	-3,466.4	-266.6	3,471.2	0.00	0.00	0.00
13,700.0	90.00	179.50	10,185.0	-3,566.4	-265.8	3,571.1	0.00	0.00	0.00
13,800.0	90.00	179.50	10,185.0	-3,666.4	-264.9	3,671.1	0.00	0.00	0.00
13,900.0	90.00	179.50	10,185.0	-3,766.4	-264.0	3,771.1	0.00	0.00	0.00
14,000.0	90.00	179.50	10,185.0	-3,866.4	-263.1	3,871.0	0.00	0.00	0.00
14,100.0	90.00	179.50	10,185.0	-3,966.4	-262.2	3,971.0	0.00	0.00	0.00
14,200.0	90.00	179.50	10,185.0	-4,066.4	-261.4	4,070.9	0.00	0.00	0.00
14,300.0	90.00	179.50	10,185.0	-4,166.4	-260.5	4,170.9	0.00	0.00	0.00
14,400.0	90.00	179.50	10,185.0	-4,266.4	-259.6	4,270.8	0.00	0.00	0.00
14,500.0	90.00	179.50	10,185.0	-4,366.4	-258.7	4,370.8	0.00	0.00	0.00
14,600.0	90.00	179.50	10,185.0	-4,466.4	-257.8	4,470.8	0.00	0.00	0.00
14,700.0	90.00	179.50	10,185.0	-4,566.4	-257.0	4,570.7	0.00	0.00	0.00
14,800.0	90.00	179.50	10,185.0	-4,666.4	-256.1	4,670.7	0.00	0.00	0.00
14,900.0	90.00	179.50	10,185.0	-4,766.4	-255.2	4,770.6	0.00	0.00	0.00
15,000.0	90.00	179.50	10,185.0	-4,866.4	-254.3	4,870.6	0.00	0.00	0.00
15,100.0	90.00	179.50	10,185.0	-4,966.4	-253.4	4,970.5	0.00	0.00	0.00
15,200.0	90.00	179.50	10,185.0	-5,066.4	-252.6	5,070.5	0.00	0.00	0.00
15,300.0	90.00	179.50	10,185.0	-5,166.4	-251.7	5,170.5	0.00	0.00	0.00
15,400.0	90.00	179.50	10,185.0	-5,266.4	-250.8	5,270.4	0.00	0.00	0.00
15,500.0	90.00	179.50	10,185.0	-5,366.4	-249.9	5,370.4	0.00	0.00	0.00
15,600.0	90.00	179.50	10,185.0	-5,466.4	-249.0	5,470.3	0.00	0.00	0.00
15,700.0	90.00	179.50	10,185.0	-5,566.4	-248.2	5,570.3	0.00	0.00	0.00
15,800.0	90.00	179.50	10,185.0	-5,666.4	-247.3	5,670.2	0.00	0.00	0.00
15,900.0	90.00	179.50	10,185.0	-5,766.4	-246.4	5,770.2	0.00	0.00	0.00
16,000.0	90.00	179.50	10,185.0	-5,866.4	-245.5	5,870.2	0.00	0.00	0.00
16,100.0	90.00	179.50	10,185.0	-5,966.3	-244.6	5,970.1	0.00	0.00	0.00
16,200.0	90.00	179.50	10,185.0	-6,066.3	-243.8	6,070.1	0.00	0.00	0.00
16,300.0	90.00	179.50	10,185.0	-6,166.3	-242.9	6,170.0	0.00	0.00	0.00
16,400.0	90.00	179.50	10,185.0	-6,266.3	-242.0	6,270.0	0.00	0.00	0.00
16,500.0	90.00	179.50	10,185.0	-6,366.3	-241.1	6,369.9	0.00	0.00	0.00
16,600.0	90.00	179.50	10,185.0	-6,466.3	-240.2	6,469.9	0.00	0.00	0.00
16,700.0	90.00	179.50	10,185.0	-6,566.3	-239.4	6,569.9	0.00	0.00	0.00
16,800.0	90.00	179.50	10,185.0	-6,666.3	-238.5	6,669.8	0.00	0.00	0.00
16,900.0	90.00	179.50	10,185.0	-6,766.3	-237.6	6,769.8	0.00	0.00	0.00
17,000.0	90.00	179.50	10,185.0	-6,866.3	-236.7	6,869.7	0.00	0.00	0.00
17,100.0	90.00	179.50	10,185.0	-6,966.3	-235.8	6,969.7	0.00	0.00	0.00
17,200.0	90.00	179.50	10,185.0	-7,066.3	-235.0	7,069.6	0.00	0.00	0.00
17,300.0	90.00	179.50	10,185.0	-7,166.3	-234.1	7,169.6	0.00	0.00	0.00
17,400.0	90.00	179.50	10,185.0	-7,266.3	-233.2	7,269.6	0.00	0.00	0.00
17,500.0	90.00	179.50	10,185.0	-7,366.3	-232.3	7,369.5	0.00	0.00	0.00
17,600.0	90.00	179.50	10,185.0	-7,466.3	-231.4	7,469.5	0.00	0.00	0.00
17,700.0	90.00	179.50	10,185.0	-7,566.3	-230.6	7,569.4	0.00	0.00	0.00
17,800.0	90.00	179.50	10,185.0	-7,666.3	-229.7	7,669.4	0.00	0.00	0.00
17,900.0	90.00	179.50	10,185.0	-7,766.3	-228.8	7,769.3	0.00	0.00	0.00
18,000.0	90.00	179.50	10,185.0	-7,866.3	-227.9	7,869.3	0.00	0.00	0.00
18,100.0	90.00	179.50	10,185.0	-7,966.3	-227.0	7,969.3	0.00	0.00	0.00
18,200.0	90.00	179.50	10,185.0	-8,066.3	-226.2	8,069.2	0.00	0.00	0.00
18,300.0	90.00	179.50	10,185.0	-8,166.3	-225.3	8,169.2	0.00	0.00	0.00
18,400.0	90.00	179.50	10,185.0	-8,266.3	-224.4	8,269.1	0.00	0.00	0.00
18,500.0	90.00	179.50	10,185.0	-8,366.3	-223.5	8,369.1	0.00	0.00	0.00
18,600.0	90.00	179.50	10,185.0	-8,466.3	-222.6	8,469.0	0.00	0.00	0.00
18,700.0	90.00	179.50	10,185.0	-8,566.2	-221.8	8,569.0	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Stonewall 28 Fed Com
Well: #301H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #301H
TVD Reference: KB = 25 @ 3525.0usft
MD Reference: KB = 25 @ 3525.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,800.0	90.00	179.50	10,185.0	-8,666.2	-220.9	8,669.0	0.00	0.00	0.00
18,900.0	90.00	179.50	10,185.0	-8,766.2	-220.0	8,768.9	0.00	0.00	0.00
19,000.0	90.00	179.50	10,185.0	-8,866.2	-219.1	8,868.9	0.00	0.00	0.00
19,100.0	90.00	179.50	10,185.0	-8,966.2	-218.2	8,968.8	0.00	0.00	0.00
19,200.0	90.00	179.50	10,185.0	-9,066.2	-217.4	9,068.8	0.00	0.00	0.00
19,300.0	90.00	179.50	10,185.0	-9,166.2	-216.5	9,168.7	0.00	0.00	0.00
19,400.0	90.00	179.50	10,185.0	-9,266.2	-215.6	9,268.7	0.00	0.00	0.00
19,500.0	90.00	179.50	10,185.0	-9,366.2	-214.7	9,368.7	0.00	0.00	0.00
19,600.0	90.00	179.50	10,185.0	-9,466.2	-213.8	9,468.6	0.00	0.00	0.00
19,700.0	90.00	179.50	10,185.0	-9,566.2	-213.0	9,568.6	0.00	0.00	0.00
19,800.0	90.00	179.50	10,185.0	-9,666.2	-212.1	9,668.5	0.00	0.00	0.00
19,900.0	90.00	179.50	10,185.0	-9,766.2	-211.2	9,768.5	0.00	0.00	0.00
20,000.0	90.00	179.50	10,185.0	-9,866.2	-210.3	9,868.4	0.00	0.00	0.00
20,100.0	90.00	179.50	10,185.0	-9,966.2	-209.4	9,968.4	0.00	0.00	0.00
20,200.0	90.00	179.50	10,185.0	-10,066.2	-208.6	10,068.4	0.00	0.00	0.00
20,262.8	90.00	179.50	10,185.0	-10,129.0	-208.0	10,131.1	0.00	0.00	0.00

PBHL(SW 28 FC #301H)

Design Targets
Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(SW 28 FC #301H)	0.00	0.00	10,185.0	-132.0	-296.0	435,679.00	804,576.00	32° 11' 41.624 N	103° 28' 56.470 W
- plan misses target center by 40.2usft at 10275.1usft MD (10147.6 TVD, -146.6 N, -294.3 E)									
- Point									
PBHL(SW 28 FC #301H)	0.00	0.00	10,185.0	-10,129.0	-208.0	425,682.00	804,664.00	32° 10' 2.696 N	103° 28' 56.366 W
- plan hits target center									
- Point									

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG Resources
LEASE NO.:	NMNM019452
WELL NAME & NO.:	Stonewall 28 Fed Com 301H
SURFACE HOLE FOOTAGE:	200'/N & 627'/W
BOTTOM HOLE FOOTAGE:	230'/S & 330'/W SEC 33
LOCATION:	Section 28, T.24 S., R.34 E., NMPM
COUNTY:	Lea County, New Mexico

Potash	☒ None	☒ Secretary	☒ R-111-P
Cave/Karst Potential	☒ Low	☒ Medium	☒ High
Variance	☒ None	☒ Flex Hose	☒ Other
Wellhead	☒ Conventional	☒ Multibowl	
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP

A. CASING

All previous COAs still apply except the following:

1. The minimum required fill of cement behind the 5 1/2 inch production casing is:

☒ Cement should tie-back at least **200** feet into previous casing string. Operator shall provide method of verification.

MHH 07252018

GENERAL REQUIREMENTS

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.