Submit 1 Copy To Appropriate District Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-44475
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

HOBBS OCD
SEP 11 2018
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7. Lease Name or Unit Agreement Name: Della 29 Fed
1. Type of Well: Oil Well ■ Gas Well ☐ Other
8. Well Number 604H
2. Name of Operator: EOG Resources, Inc.
9. OGRID Number 7377
3. Address of Operator: P.O. Box 2267 Midland, TX 79702
10. Pool name or Wildcat: Lea; Bone Spring, South
4. Well Location
Unit Letter O : 230 feet from the South line and 2635 feet from the East line
Section 29 Township 20S Range 34E NMPM County Lea
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3715' GR

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☒	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:		Change BHL, HSU	☒	OTHER:			☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources requests an amendment to our approved APD for this well to reflect a revised BHL & HSU.

Change BHL to: 100' FNL & 2090' FWL C-29-20S-34E

Spud Date: | Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Stan Wagner TITLE Regulatory Analyst DATE 9/10/2018

Type or print name Stan Wagner E-mail address: PHONE: 432-686-3689

For State Use Only

APPROVED BY: Karen Sharp TITLE Staff Mgr DATE 9-12-18
Conditions of Approval (if any):

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., Sante 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.
Sante Fe, NM 87505

HOBBS OCD
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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	[2]Pool Code	[3]Pool Name
30-025-44475	37580	Lea; Bone Spring South

[4]Property Code	[5]Property Name	[6]Well Number
320792	DELLA 29 FED	#604H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3715'

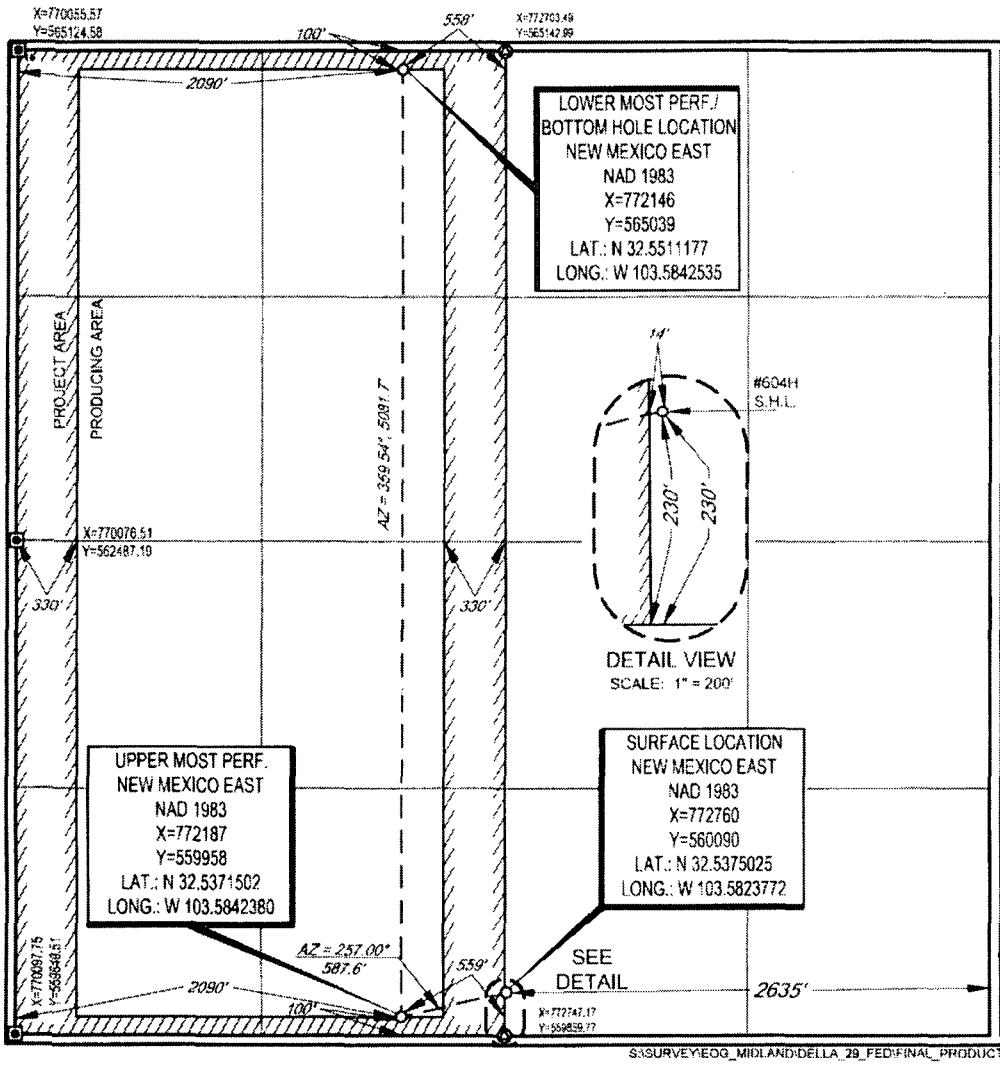
[10]Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	29	20-S	34-E	-	230'	SOUTH	2635'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	29	20-S	34-E	-	100'	NORTH	2090'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
320.00			

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.



[17]OPERATOR 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.

Stan Wagner 9/10/18
Signature Date

Stan Wagner
Printed Name

E-mail Address

[18]SURVEYOR 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.

04/05/2018
Date of Survey
Signature and Seal of Professional Surveyor

MICHAEL BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\EOG_MIDLAND\DELLA_29_FED\FINAL_PRODUCTS\LO_DELLA29FEDCOM_604H_REV2.DWG 9/7/2018 6:41:20 AM lstewart

HOBBS OCD

SEP 11 2018

RECEIVED

Intent [X] As Drilled [ ]

API #		
30-025-44475		
Operator Name:	Property Name:	Well Number
EOG Resources, Inc.	Della 29 Fed	604H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	29	20S	34E						Lea
Latitude				Longitude					NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	29	20S	34E		100	South	2090	West	Lea
Latitude				Longitude					NAD
N 32.5371502				W -103.5842380					83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	29	20S	34E		100	North	2090	West	Lea
Latitude				Longitude					NAD
N 32.5511177				W -103.5842535					83

Is this well the defining well for the Horizontal Spacing Unit? [No]

Is this well an infill well? [Yes]

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
30-025-44476		
Operator Name:	Property Name:	Well Number
EOG Resources, Inc.	Della 29 Fed	605H

KZ 06/29/2018

Revised Permit Information 9/10/18:

Well Name: Della 29 Fed #604H

Location:
SL: 230' FSL & 2,635' FEL, Section 29, T-20-S, R-34-E, Lea Co., N.M.
BHL: 100' FNL & 2,090' FWL, Section 29, T-20-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 – 1,655'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0 – 4,000'	9.625"	40#	J-55	LTC	1.125	1.25	1.60
12.25"	4,000' – 5,400'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0' – 10,900'	7.625"	29.7#	HCP-110	FlushMax III	1.125	1.25	1.60
6.75"	0'-16,204'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

Cementing Program:

Depth	No. Sacks	Wt. ppg	Yld Ft^3/ft	Mix Water Gal/sk	Slurry Description
13-3/8" 1,655	1075	13.5	1.74	9.17	Class C + 4% Gel + 2% CaCl2 + 0.25 pps Celloflake (TOC @ Surface)
	385	14.8	1.34	6.35	Class C + 2.0% CaCl2
9-5/8" 5,400' DV Tool w/ ECP @ 3,700'	235	12.7	1.90	9.96	Stage 1 Lead: 35:65 Poz:Class C + 3.0% Salt + 6.0% Gel + 0.4% CPT-20 + 0.5% CPT-45 (TOC @ 3,700')
	200	14.8	1.33	6.32	Stage 1 Tail: Class C + 0.2% CPT-19
	785	12.7	1.90	9.96	Stage 2 Lead: 35:65 Poz:Class C + 3.0% Salt + 6.0% Gel + 0.5% CPT-45 + 0.2% CPT-20 (TOC @ Surface)
	100	14.8	1.33	6.32	Stage 2 Tail: Class C + 0.2% CPT-19
7-5/8" 10,900'	425	11.5	2.64	14.69	50:50 Poz:H + 5.0% Salt + 7.0% Gel + 0.4% CPT-503P + 0.5% CPT-19 (TOC @ Surface)
	140	14.4	1.24	5.08	50:50 Poz:H + 5.0% Salt
5-1/2" 16,204'	220	11.0	3.21	19.24	50:50 Poz:H + 5.0% Salt + 3.0% CPT-45 + 0.4% CPT-503P + 1.0% CPT-19 + 5.0% Gypsum + 0.15% CPT-20 + 0.15% Citric Acid (TOC @ 10,400')
	550	14.4	1.20	4.81	50:50 Poz:H + 0.25% CPT-503P + 0.8% CPT-16A + 0.2% CPT-35 + 0.4% CPT-39 + 0.25% CPT-20

Mud program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,655'	Fresh - Gel	8.6-8.8	28-34	N/c
1,655' – 5,400'	Fresh-Gel	8.6-8.8	28-34	N/c
5,400' – 10,900'	Oil Base	8.7-9.4	58-68	N/c - 6
10,900' – 16,204' Lateral	Oil Base	10.0-10.5	58-68	N/c - 6

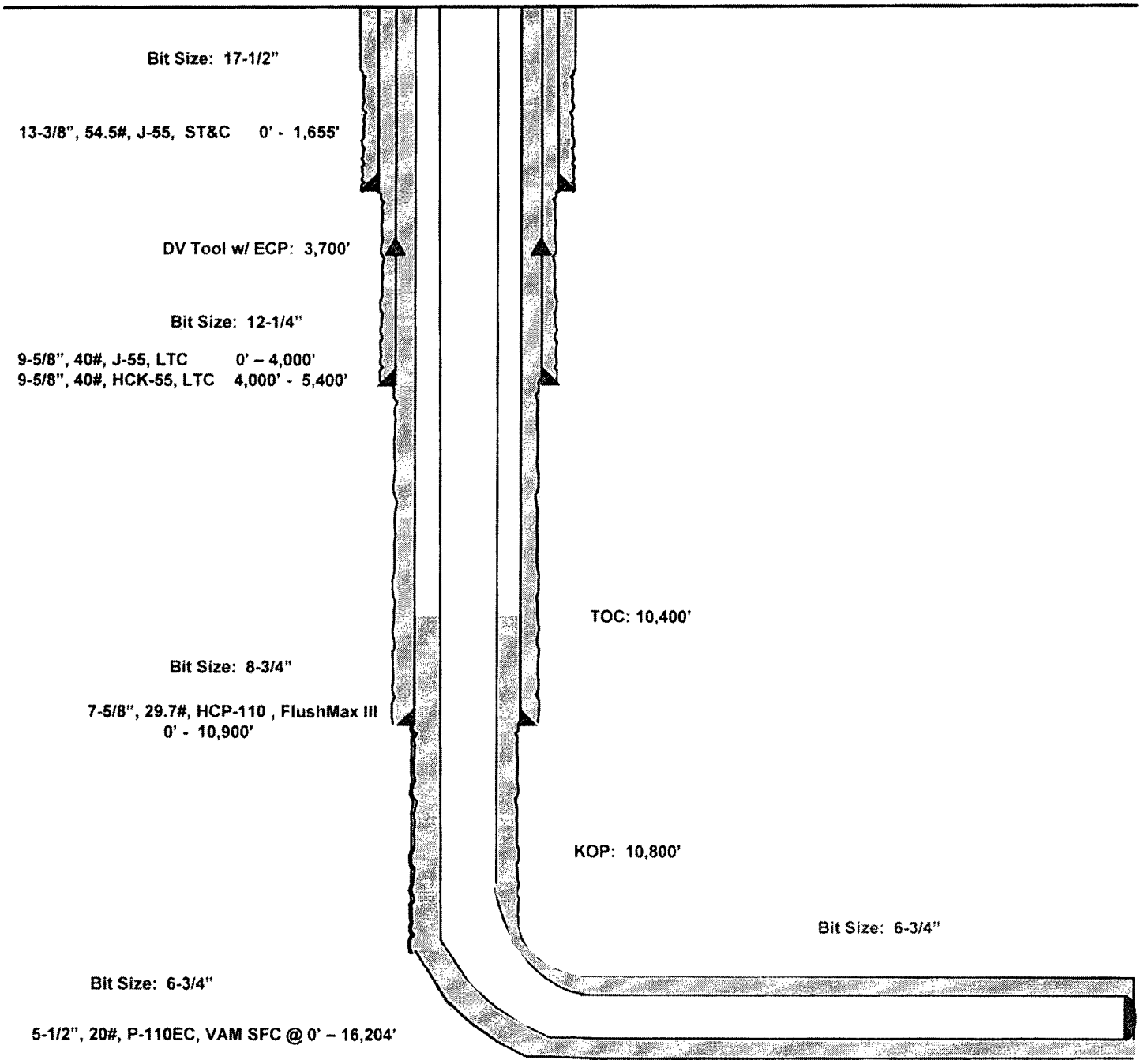
Della 29 Fed #604H

Lea County, New Mexico
Revised Wellbore 9/10/18

API: 30-025-44475

230' FSL
2635' FEL
Section 29
T-20-S, R-34-E

KB: 3,740'
GL: 3,715'



Lateral: 16,204' MD, 11,250' TVD
Upper Most Perf:
100' FSL & 2090' FWL Sec. 29
Lower Most Perf:
100' FNL & 2090' FWL Sec. 29
BH Location: 100' FNL & 2090' FWL
Section 29
T-20-S, R-34-E

eog resources

Lea County, NM (NAD 83 NME)

Della 29 Fed Com #604H

Plan #0.2

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

Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.57°

Magnetic Field
Strength: 48112.3snT
Dip Angle: 60.35°
Date: 7/18/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.57°
To convert a Magnetic Direction to a True Direction, Add 6.97° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

WELL DETAILS: #604H

3315.0
KB = 25 @ 3340.0usft

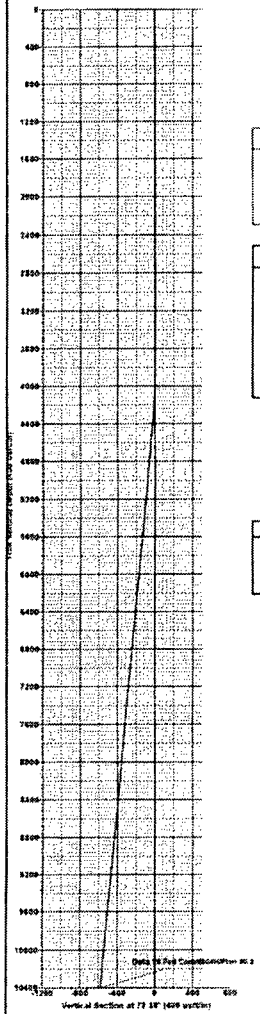
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	640090.00	772780.00	32° 32' 18.031 N	103° 34' 58.552 W	

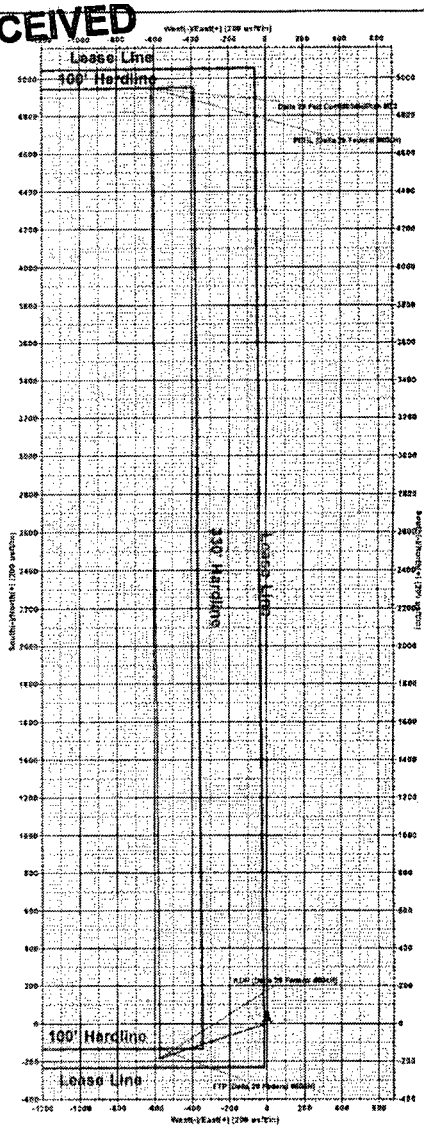
SECTION DETAILS

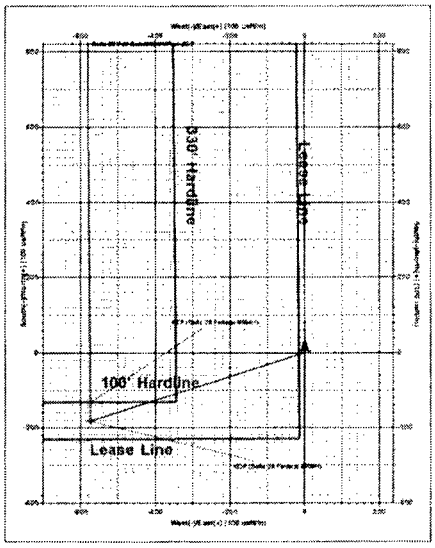
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4000.0	0.00	0.00	4000.0	0.0	0.0	0.00	0.00	0.0	
3	4263.8	5.28	252.38	4263.5	-3.7	-11.6	2.00	252.38	-2.2	
4	10536.0	5.28	252.38	10509.0	-178.3	-561.4	0.00	0.00	-107.8	
5	10799.8	0.00	0.00	10772.5	-182.0	-573.0	2.00	180.00	-110.1	KOP (Della 29 Federal #604H)
6	11549.8	90.00	359.54	11250.0	295.4	-576.8	12.00	359.54	364.2	
7	16283.5	90.00	359.54	11250.0	4949.0	-614.0	0.00	0.00	4986.9	PBHL (Della 29 Federal #604H)

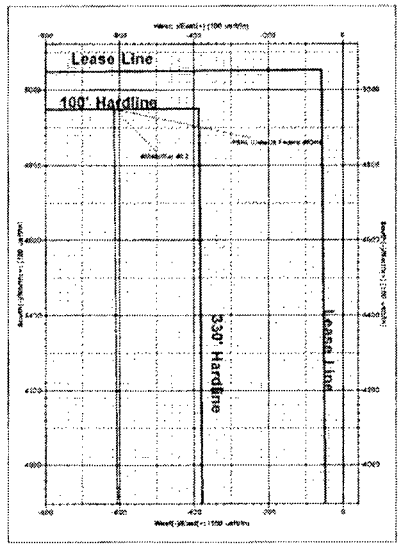
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

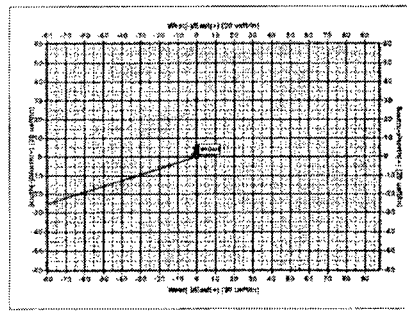
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP (Della 29 Federal #604H)	10772.5	-182.0	-573.0	639908.00	772197.00	Point
FTP (Della 29 Federal #604H)	11250.0	-132.0	-573.0	639958.00	772197.00	Point
PBHL (Della 29 Federal #604H)	11250.0	4949.0	-614.0	645039.00	772146.00	Point

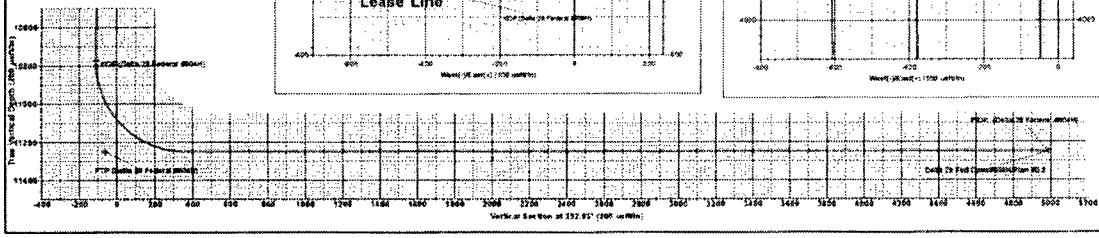












eog resources

EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Della 29 Fed Com
#604H

OH

Plan: Plan #0.2

Standard Planning Report

10 September, 2018

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #604H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3740.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3740.0usft
Site:	Della 29 Fed Com	**North Reference:**	Grid
Well:	#604H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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 Della 29 Fed Com

Site Position:		**Northing:**	560,090.00 usft	**Latitude:**	32° 32' 15.008 N
From:	Map	**Easting:**	772,794.00 usft	**Longitude:**	103° 34' 56.155 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.40 °

Well #604H

Well Position	**+N/-S**	0.0 usft	**Northing:**	560,090.00 usft	**Latitude:**	32° 32' 15.011 N
	+E/-W	-34.0 usft	**Easting:**	772,760.00 usft	**Longitude:**	103° 34' 56.552 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,715.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/18/2017	6.97	60.35	48,112.25355876

Design Plan #0.2

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	352.93

Plan Survey Tool Program **Date** 9/10/2018

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,203.5	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	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,263.9	5.28	252.38	4,263.5	-3.7	-11.6	2.00	2.00	0.00	252.38	
10,536.0	5.28	252.38	10,509.0	-178.3	-561.4	0.00	0.00	0.00	0.00	
10,799.8	0.00	0.01	10,772.5	-182.0	-573.0	2.00	-2.00	0.00	180.00	KOP (Della 29 Federa
11,549.8	90.00	359.54	11,250.0	295.4	-576.8	12.00	12.00	-0.06	359.54	
16,203.5	90.00	359.54	11,250.0	4,949.0	-614.0	0.00	0.00	0.00	0.00	PBHL (Della 29 Feder

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #604H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3740.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3740.0usft
Site:	Della 29 Fed Com	**North Reference:**	Grid
Well:	#604H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	2.00	252.38	4,100.0	-0.5	-1.7	-0.3	2.00	2.00	0.00
4,200.0	4.00	252.38	4,199.8	-2.1	-6.7	-1.3	2.00	2.00	0.00
4,263.9	5.28	252.38	4,263.5	-3.7	-11.6	-2.2	2.00	2.00	0.00
4,300.0	5.28	252.38	4,299.5	-4.7	-14.7	-2.8	0.00	0.00	0.00
4,400.0	5.28	252.38	4,399.0	-7.5	-23.5	-4.5	0.00	0.00	0.00
4,500.0	5.28	252.38	4,498.6	-10.3	-32.3	-6.2	0.00	0.00	0.00
4,600.0	5.28	252.38	4,598.2	-13.0	-41.0	-7.9	0.00	0.00	0.00
4,700.0	5.28	252.38	4,697.8	-15.8	-49.8	-9.6	0.00	0.00	0.00
4,800.0	5.28	252.38	4,797.4	-18.6	-58.6	-11.3	0.00	0.00	0.00
4,900.0	5.28	252.38	4,896.9	-21.4	-67.3	-12.9	0.00	0.00	0.00
5,000.0	5.28	252.38	4,996.5	-24.2	-76.1	-14.6	0.00	0.00	0.00
5,100.0	5.28	252.38	5,096.1	-27.0	-84.9	-16.3	0.00	0.00	0.00
5,200.0	5.28	252.38	5,195.7	-29.7	-93.6	-18.0	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #604H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3740.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3740.0usft
Site:	Della 29 Fed Com	**North Reference:**	Grid
Well:	#604H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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	5.28	252.38	5,295.2	-32.5	-102.4	-19.7	0.00	0.00	0.00
5,400.0	5.28	252.38	5,394.8	-35.3	-111.2	-21.4	0.00	0.00	0.00
5,500.0	5.28	252.38	5,494.4	-38.1	-119.9	-23.0	0.00	0.00	0.00
5,600.0	5.28	252.38	5,594.0	-40.9	-128.7	-24.7	0.00	0.00	0.00
5,700.0	5.28	252.38	5,693.5	-43.7	-137.5	-26.4	0.00	0.00	0.00
5,800.0	5.28	252.38	5,793.1	-46.4	-146.2	-28.1	0.00	0.00	0.00
5,900.0	5.28	252.38	5,892.7	-49.2	-155.0	-29.8	0.00	0.00	0.00
6,000.0	5.28	252.38	5,992.3	-52.0	-163.8	-31.5	0.00	0.00	0.00
6,100.0	5.28	252.38	6,091.8	-54.8	-172.5	-33.1	0.00	0.00	0.00
6,200.0	5.28	252.38	6,191.4	-57.6	-181.3	-34.8	0.00	0.00	0.00
6,300.0	5.28	252.38	6,291.0	-60.4	-190.1	-36.5	0.00	0.00	0.00
6,400.0	5.28	252.38	6,390.6	-63.2	-198.8	-38.2	0.00	0.00	0.00
6,500.0	5.28	252.38	6,490.1	-65.9	-207.6	-39.9	0.00	0.00	0.00
6,600.0	5.28	252.38	6,589.7	-68.7	-216.4	-41.6	0.00	0.00	0.00
6,700.0	5.28	252.38	6,689.3	-71.5	-225.1	-43.2	0.00	0.00	0.00
6,800.0	5.28	252.38	6,788.9	-74.3	-233.9	-44.9	0.00	0.00	0.00
6,900.0	5.28	252.38	6,888.5	-77.1	-242.7	-46.6	0.00	0.00	0.00
7,000.0	5.28	252.38	6,988.0	-79.9	-251.4	-48.3	0.00	0.00	0.00
7,100.0	5.28	252.38	7,087.6	-82.6	-260.2	-50.0	0.00	0.00	0.00
7,200.0	5.28	252.38	7,187.2	-85.4	-269.0	-51.7	0.00	0.00	0.00
7,300.0	5.28	252.38	7,286.8	-88.2	-277.7	-53.4	0.00	0.00	0.00
7,400.0	5.28	252.38	7,386.3	-91.0	-286.5	-55.0	0.00	0.00	0.00
7,500.0	5.28	252.38	7,485.9	-93.8	-295.3	-56.7	0.00	0.00	0.00
7,600.0	5.28	252.38	7,585.5	-96.6	-304.0	-58.4	0.00	0.00	0.00
7,700.0	5.28	252.38	7,685.1	-99.4	-312.8	-60.1	0.00	0.00	0.00
7,800.0	5.28	252.38	7,784.6	-102.1	-321.6	-61.8	0.00	0.00	0.00
7,900.0	5.28	252.38	7,884.2	-104.9	-330.3	-63.5	0.00	0.00	0.00
8,000.0	5.28	252.38	7,983.8	-107.7	-339.1	-65.1	0.00	0.00	0.00
8,100.0	5.28	252.38	8,083.4	-110.5	-347.9	-66.8	0.00	0.00	0.00
8,200.0	5.28	252.38	8,182.9	-113.3	-356.6	-68.5	0.00	0.00	0.00
8,300.0	5.28	252.38	8,282.5	-116.1	-365.4	-70.2	0.00	0.00	0.00
8,400.0	5.28	252.38	8,382.1	-118.8	-374.2	-71.9	0.00	0.00	0.00
8,500.0	5.28	252.38	8,481.7	-121.6	-382.9	-73.6	0.00	0.00	0.00
8,600.0	5.28	252.38	8,581.2	-124.4	-391.7	-75.2	0.00	0.00	0.00
8,700.0	5.28	252.38	8,680.8	-127.2	-400.5	-76.9	0.00	0.00	0.00
8,800.0	5.28	252.38	8,780.4	-130.0	-409.2	-78.6	0.00	0.00	0.00
8,900.0	5.28	252.38	8,880.0	-132.8	-418.0	-80.3	0.00	0.00	0.00
9,000.0	5.28	252.38	8,979.5	-135.6	-426.8	-82.0	0.00	0.00	0.00
9,100.0	5.28	252.38	9,079.1	-138.3	-435.5	-83.7	0.00	0.00	0.00
9,200.0	5.28	252.38	9,178.7	-141.1	-444.3	-85.3	0.00	0.00	0.00
9,300.0	5.28	252.38	9,278.3	-143.9	-453.1	-87.0	0.00	0.00	0.00
9,400.0	5.28	252.38	9,377.9	-146.7	-461.8	-88.7	0.00	0.00	0.00
9,500.0	5.28	252.38	9,477.4	-149.5	-470.6	-90.4	0.00	0.00	0.00
9,600.0	5.28	252.38	9,577.0	-152.3	-479.4	-92.1	0.00	0.00	0.00
9,700.0	5.28	252.38	9,676.6	-155.0	-488.1	-93.8	0.00	0.00	0.00
9,800.0	5.28	252.38	9,776.2	-157.8	-496.9	-95.4	0.00	0.00	0.00
9,900.0	5.28	252.38	9,875.7	-160.6	-505.7	-97.1	0.00	0.00	0.00
10,000.0	5.28	252.38	9,975.3	-163.4	-514.4	-98.8	0.00	0.00	0.00
10,100.0	5.28	252.38	10,074.9	-166.2	-523.2	-100.5	0.00	0.00	0.00
10,200.0	5.28	252.38	10,174.5	-169.0	-532.0	-102.2	0.00	0.00	0.00
10,300.0	5.28	252.38	10,274.0	-171.8	-540.7	-103.9	0.00	0.00	0.00
10,400.0	5.28	252.38	10,373.6	-174.5	-549.5	-105.6	0.00	0.00	0.00
10,500.0	5.28	252.38	10,473.2	-177.3	-558.3	-107.2	0.00	0.00	0.00
10,536.0	5.28	252.38	10,509.0	-178.3	-561.4	-107.8	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #604H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3740.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3740.0usft
Site:	Della 29 Fed Com	**North Reference:**	Grid
Well:	#604H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
10,600.0	4.00	252.38	10,572.8	-179.9	-566.4	-108.8	2.00	-2.00	0.00
10,700.0	2.00	252.38	10,672.7	-181.5	-571.3	-109.7	2.00	-2.00	0.00
10,799.8	0.00	0.01	10,772.5	-182.0	-573.0	-110.1	2.00	-2.00	0.00
KOP (Della 29 Federal #604H)									
10,825.0	3.02	359.54	10,797.7	-181.3	-573.0	-109.4	12.00	12.00	0.00
10,850.0	6.02	359.54	10,822.6	-179.4	-573.0	-107.5	12.00	12.00	0.00
10,875.0	9.02	359.54	10,847.4	-176.1	-573.0	-104.2	12.00	12.00	0.00
10,900.0	12.02	359.54	10,871.9	-171.5	-573.1	-99.7	12.00	12.00	0.00
10,925.0	15.02	359.54	10,896.2	-165.7	-573.1	-93.9	12.00	12.00	0.00
10,950.0	18.02	359.54	10,920.2	-158.6	-573.2	-86.8	12.00	12.00	0.00
10,975.0	21.02	359.54	10,943.8	-150.2	-573.3	-78.5	12.00	12.00	0.00
11,000.0	24.02	359.54	10,966.9	-140.7	-573.3	-69.0	12.00	12.00	0.00
11,025.0	27.02	359.54	10,989.4	-129.9	-573.4	-58.3	12.00	12.00	0.00
11,050.0	30.02	359.54	11,011.4	-118.0	-573.5	-46.4	12.00	12.00	0.00
11,075.0	33.02	359.54	11,032.7	-104.9	-573.6	-33.5	12.00	12.00	0.00
11,100.0	36.02	359.54	11,053.3	-90.7	-573.7	-19.4	12.00	12.00	0.00
11,125.0	39.02	359.54	11,073.1	-75.5	-573.9	-4.3	12.00	12.00	0.00
11,150.0	42.02	359.54	11,092.1	-59.3	-574.0	11.9	12.00	12.00	0.00
11,175.0	45.02	359.54	11,110.2	-42.0	-574.1	29.0	12.00	12.00	0.00
11,200.0	48.02	359.54	11,127.4	-23.9	-574.3	47.0	12.00	12.00	0.00
FTP (Della 29 Federal #604H)									
11,225.0	51.02	359.54	11,143.7	-4.9	-574.4	65.9	12.00	12.00	0.00
11,250.0	54.02	359.54	11,158.9	14.9	-574.6	85.6	12.00	12.00	0.00
11,275.0	57.02	359.54	11,173.0	35.5	-574.7	106.0	12.00	12.00	0.00
11,300.0	60.02	359.54	11,186.1	56.9	-574.9	127.2	12.00	12.00	0.00
11,325.0	63.02	359.54	11,198.0	78.8	-575.1	149.0	12.00	12.00	0.00
11,350.0	66.02	359.54	11,208.8	101.4	-575.3	171.5	12.00	12.00	0.00
11,375.0	69.02	359.54	11,218.3	124.5	-575.4	194.4	12.00	12.00	0.00
11,400.0	72.02	359.54	11,226.6	148.1	-575.6	217.8	12.00	12.00	0.00
11,425.0	75.02	359.54	11,233.7	172.0	-575.8	241.6	12.00	12.00	0.00
11,450.0	78.02	359.54	11,239.6	196.3	-576.0	265.8	12.00	12.00	0.00
11,475.0	81.02	359.54	11,244.1	220.9	-576.2	290.2	12.00	12.00	0.00
11,500.0	84.02	359.54	11,247.4	245.7	-576.4	314.8	12.00	12.00	0.00
11,525.0	87.02	359.54	11,249.3	270.6	-576.6	339.6	12.00	12.00	0.00
11,549.8	90.00	359.54	11,250.0	295.4	-576.8	364.2	12.00	12.00	0.00
11,600.0	90.00	359.54	11,250.0	345.6	-577.2	414.1	0.00	0.00	0.00
11,700.0	90.00	359.54	11,250.0	445.6	-578.0	513.4	0.00	0.00	0.00
11,800.0	90.00	359.54	11,250.0	545.6	-578.8	612.7	0.00	0.00	0.00
11,900.0	90.00	359.54	11,250.0	645.6	-579.6	712.1	0.00	0.00	0.00
12,000.0	90.00	359.54	11,250.0	745.6	-580.4	811.4	0.00	0.00	0.00
12,100.0	90.00	359.54	11,250.0	845.6	-581.2	910.7	0.00	0.00	0.00
12,200.0	90.00	359.54	11,250.0	945.6	-582.0	1,010.1	0.00	0.00	0.00
12,300.0	90.00	359.54	11,250.0	1,045.6	-582.8	1,109.4	0.00	0.00	0.00
12,400.0	90.00	359.54	11,250.0	1,145.6	-583.6	1,208.7	0.00	0.00	0.00
12,500.0	90.00	359.54	11,250.0	1,245.6	-584.4	1,308.1	0.00	0.00	0.00
12,600.0	90.00	359.54	11,250.0	1,345.6	-585.2	1,407.4	0.00	0.00	0.00
12,700.0	90.00	359.54	11,250.0	1,445.6	-586.0	1,506.7	0.00	0.00	0.00
12,800.0	90.00	359.54	11,250.0	1,545.6	-586.8	1,606.1	0.00	0.00	0.00
12,900.0	90.00	359.54	11,250.0	1,645.6	-587.6	1,705.4	0.00	0.00	0.00
13,000.0	90.00	359.54	11,250.0	1,745.6	-588.4	1,804.7	0.00	0.00	0.00
13,100.0	90.00	359.54	11,250.0	1,845.6	-589.2	1,904.1	0.00	0.00	0.00
13,200.0	90.00	359.54	11,250.0	1,945.6	-590.0	2,003.4	0.00	0.00	0.00
13,300.0	90.00	359.54	11,250.0	2,045.6	-590.8	2,102.7	0.00	0.00	0.00
13,400.0	90.00	359.54	11,250.0	2,145.6	-591.6	2,202.1	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #604H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3740.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3740.0usft
Site:	Della 29 Fed Com	**North Reference:**	Grid
Well:	#604H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.2		

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)
13,500.0	90.00	359.54	11,250.0	2,245.6	-592.4	2,301.4	0.00	0.00	0.00
13,600.0	90.00	359.54	11,250.0	2,345.5	-593.2	2,400.7	0.00	0.00	0.00
13,700.0	90.00	359.54	11,250.0	2,445.5	-594.0	2,500.1	0.00	0.00	0.00
13,800.0	90.00	359.54	11,250.0	2,545.5	-594.8	2,599.4	0.00	0.00	0.00
13,900.0	90.00	359.54	11,250.0	2,645.5	-595.6	2,698.7	0.00	0.00	0.00
14,000.0	90.00	359.54	11,250.0	2,745.5	-596.4	2,798.1	0.00	0.00	0.00
14,100.0	90.00	359.54	11,250.0	2,845.5	-597.2	2,897.4	0.00	0.00	0.00
14,200.0	90.00	359.54	11,250.0	2,945.5	-598.0	2,996.7	0.00	0.00	0.00
14,300.0	90.00	359.54	11,250.0	3,045.5	-598.8	3,096.1	0.00	0.00	0.00
14,400.0	90.00	359.54	11,250.0	3,145.5	-599.6	3,195.4	0.00	0.00	0.00
14,500.0	90.00	359.54	11,250.0	3,245.5	-600.4	3,294.7	0.00	0.00	0.00
14,600.0	90.00	359.54	11,250.0	3,345.5	-601.2	3,394.1	0.00	0.00	0.00
14,700.0	90.00	359.54	11,250.0	3,445.5	-602.0	3,493.4	0.00	0.00	0.00
14,800.0	90.00	359.54	11,250.0	3,545.5	-602.8	3,592.8	0.00	0.00	0.00
14,900.0	90.00	359.54	11,250.0	3,645.5	-603.6	3,692.1	0.00	0.00	0.00
15,000.0	90.00	359.54	11,250.0	3,745.5	-604.4	3,791.4	0.00	0.00	0.00
15,100.0	90.00	359.54	11,250.0	3,845.5	-605.2	3,890.8	0.00	0.00	0.00
15,200.0	90.00	359.54	11,250.0	3,945.5	-606.0	3,990.1	0.00	0.00	0.00
15,300.0	90.00	359.54	11,250.0	4,045.5	-606.8	4,089.4	0.00	0.00	0.00
15,400.0	90.00	359.54	11,250.0	4,145.5	-607.6	4,188.8	0.00	0.00	0.00
15,500.0	90.00	359.54	11,250.0	4,245.5	-608.4	4,288.1	0.00	0.00	0.00
15,600.0	90.00	359.54	11,250.0	4,345.5	-609.2	4,387.4	0.00	0.00	0.00
15,700.0	90.00	359.54	11,250.0	4,445.5	-610.0	4,486.8	0.00	0.00	0.00
15,800.0	90.00	359.54	11,250.0	4,545.5	-610.8	4,586.1	0.00	0.00	0.00
15,900.0	90.00	359.54	11,250.0	4,645.5	-611.6	4,685.4	0.00	0.00	0.00
16,000.0	90.00	359.54	11,250.0	4,745.5	-612.4	4,784.8	0.00	0.00	0.00
16,100.0	90.00	359.54	11,250.0	4,845.5	-613.2	4,884.1	0.00	0.00	0.00
16,203.5	90.00	359.54	11,250.0	4,949.0	-614.0	4,986.9	0.00	0.00	0.00
PBHL (Della 29 Federal #604H)									

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
KOP (Della 29 Federal # - plan hits target center - Point	0.00	0.01	10,772.5	-182.0	-573.0	559,908.00	772,187.00	32° 32' 13.250 N	103° 35' 3.260 W
FTP (Della 29 Federal # - plan misses target center by 163.4usft at 11200.0usft MD (11127.4 TVD, -23.9 N, -574.3 E) - Point	0.00	0.01	11,250.0	-132.0	-573.0	559,958.00	772,187.00	32° 32' 13.745 N	103° 35' 3.256 W
PBHL (Della 29 Federal - plan hits target center - Point	0.00	0.01	11,250.0	4,949.0	-614.0	565,039.00	772,146.00	32° 33' 4.022 N	103° 35' 3.318 W