

Carlsbad Field Office

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.

HOBBS OCD

NOV 28 2018

SUBMIT IN TRIPLICATE - Other instructions on page 2

RECEIVED

1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMNM128367
2. Name of Operator EOG RESOURCES INCORPORATED Contact: STAN WAGNER E-Mail: stan_wagner@eogresources.com		6. If Indian, Allottee or Tribe Name
3a. Address MIDLAND, TX 79702	3b. Phone No. (include area code) Ph: 432-686-3689	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T20S R34E SWSW 230FSL 1015FWL 32.537518 N Lat, 103.587730 W Lon		8. Well Name and No. DELLA 29 FEDERAL 606H
		9. API Well No. 30-025-44477-00-X1
		10. Field and Pool or Exploratory Area LEA-BONE SPRING, SOUTH
		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 a revised casing design as attached.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #442649 verified by the BLM Well Information System For EOG RESOURCES INCORPORATED, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 11/05/2018 (19PP0300SE)	
Name (Printed/Typed) STAN WAGNER	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 11/05/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	MUSTAFA HAQUE Title PETROLEUM ENGINEER	Date 11/13/2018
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 **

Kas

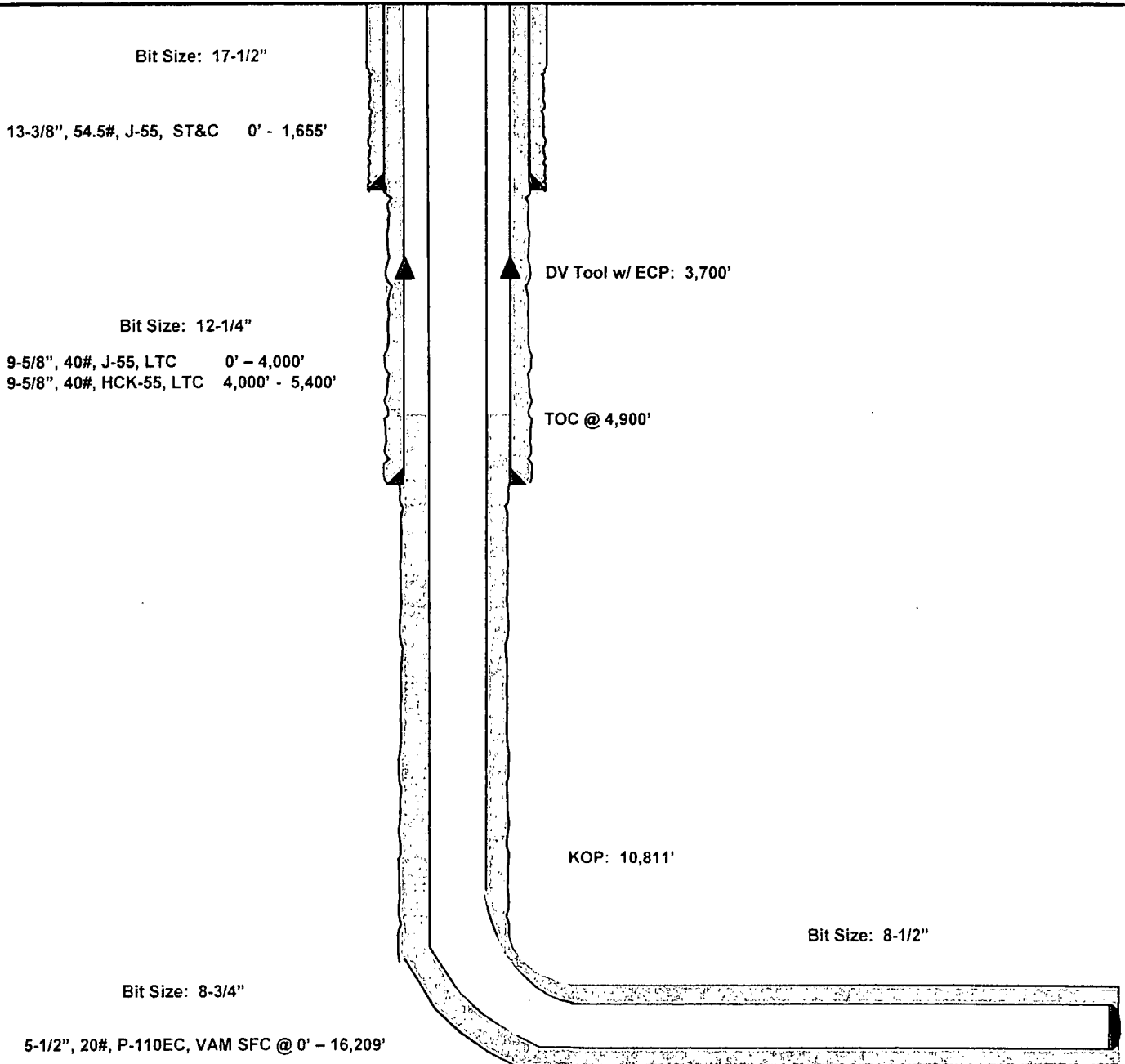
Della 29 Fed #606H

230' FSL
1015' FWL
Section 29
T-20-S, R-34-E

Lea County, New Mexico
Revised Wellbore 11/5/18

API: 30-025-44477

KB: 3,734'
GL: 3,709'



Lateral: 16,209' MD, 11,250' TVD
Upper Most Perf:
100' FSL & 330' FWL Sec. 29
Lower Most Perf:
100' FNL & 330' FWL Sec. 29
BH Location: 100' FNL & 330' FWL
Section 29
T-20-S, R-34-E

Revised Permit Information 11/5/18:

Well Name: Della 29 Fed Com #606H

Location:

SL: 230' FSL & 1,015' FWL, Section 29, T-20-S, R-34-E, Lea Co., N.M.

BHL: 100' FNL & 330' 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' - 16,209'	5.5"	20#	HCP-110	SFC	1.125	1.25	1.60

Variance is requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 8-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 8-3/4" hole interval to maximize cement bond and zonal isolation.

Cement 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% CaCl ₂ + 0.25 pps Celloflake (TOC @ Surface)
	385	14.8	1.34	6.35	Class C + 2.0% CaCl ₂
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
5-1/2" 16,209'	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 @ 4,900') 10' TOC
	850	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

See CoAs**Mud Program:**

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,655'	Fresh - Gel	8.6-8.8	28-34	N/c
1,705' - 5,400'	Fresh-Gel	8.6-8.8	28-34	N/c
5,400' - 16,209' Lateral	Oil Base	8.8-9.0	58-68	N/c - 6



Lea County, NM (NAD 83 NME)

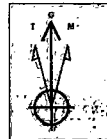
Della 29 Fed Com

#606H

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: +6.40°
Magnetic North: +6.57°
Magnetic Field
Strength: 48112.0 nT
Dip Angle: 60.35°
Date: 2/18/2017
Model: IGMF-1015

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

WELL DETAILS: #606H

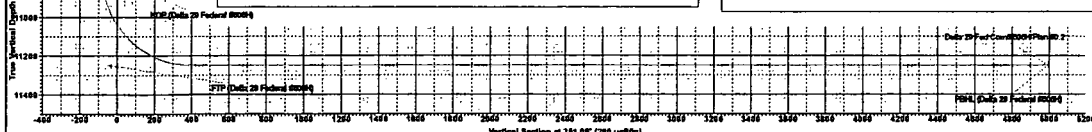
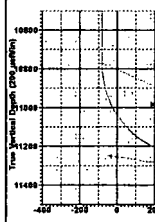
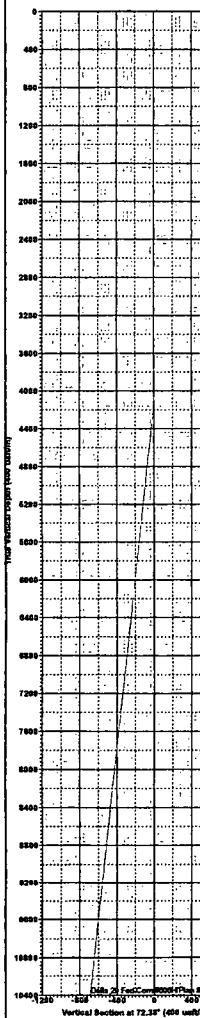
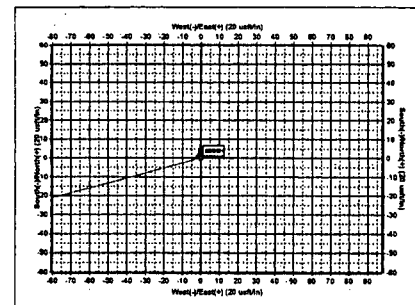
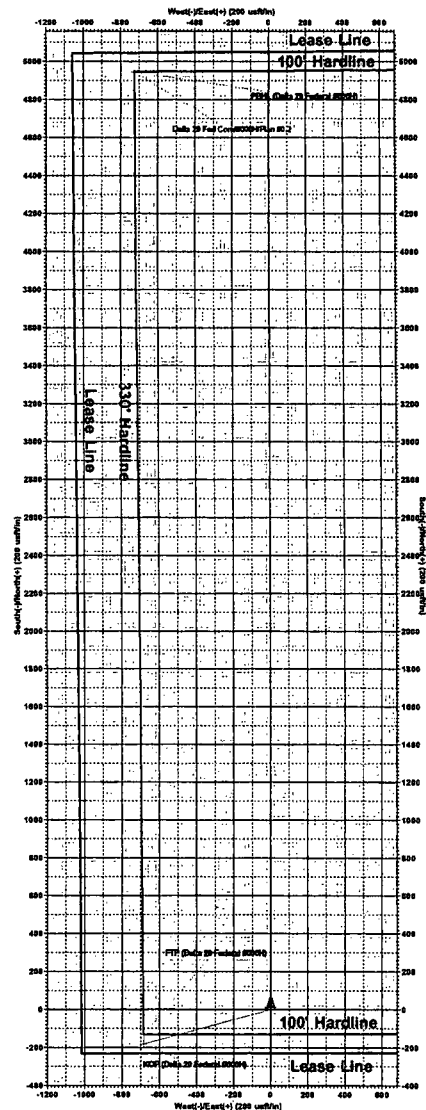
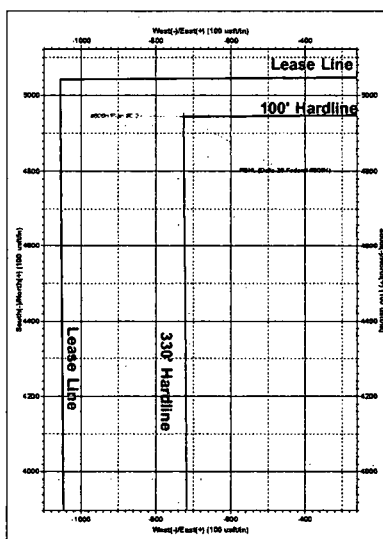
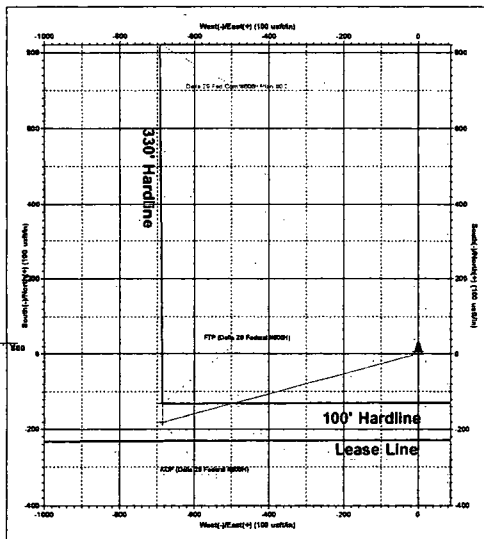
	KB	KB + 25 @ 3734.0usft	Longitude	Slot
+N/-S	0.0	0.0	771111.00 32° 32' 15.056 N	103° 35' 15.816 W
+E/-W	0.0	0.0		
North	560083.00			

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Diag	TFace	VSeal	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	4312.7	6.25	255.10	4312.0	-4.4	-16.5	2.00	255.10	-1.9	
4	10497.9	6.25	255.10	10480.5	-177.8	-687.5	0.00	0.00	-78.9	
5	10810.5	0.00	0.00	10772.5	-182.0	-684.0	2.00	180.00	-80.8	KOP (Della 29 Federal #606H)
6	11560.5	90.00	359.54	11250.0	295.4	-697.8	12.00	359.54	392.1	
7	16209.2	90.00	359.54	11250.0	4944.0	-725.0	0.00	0.00	4996.9	PBHL (Della 29 Federal #606H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	North	East	Shape
KOP (Della 29 Federal #606H)	10772.5	-182.0	-684.0	558951.00	770427.00	Point
FTP (Della 29 Federal #606H)	11250.0	-132.0	-684.0	558951.00	770427.00	Point
PBHL (Della 29 Federal #606H)	11250.0	4944.0	-725.0	565027.00	770386.00	Point



Lea County, NM (NAD 83 NME)
Della 29 Fed Com #606H
Plan #0.2
11/15/2017 10:00 AM
Page 1 of 1



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Della 29 Fed Com

#606H

OH

Plan: Plan #0.2

Standard Planning Report

10 September, 2018

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #606H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3734.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3734.0usft
Site:	Della 29 Fed Com	North Reference:	Grid
Well:	#606H	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
From:	Map	Easting:	772,794.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 32' 15.008 N
		Longitude:	103° 34' 56.155 W
		Grid Convergence:	0.40 °

Well	#606H		
Well Position	+N-S	-7.0 usft	Northing: 560,083.00 usft
	+E-W	-1,683.0 usft	Easting: 771,111.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level: 3,709.0 usft
		Latitude:	32° 32' 15.056 N
		Longitude:	103° 35' 15.815 W

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2015	7/18/2017	(°)	(°)	(nT)
			6.97	60.35	48,112.02665443

Design	Plan #0.2				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	351.66	

Plan Survey Tool Program	Date 9/10/2018				
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks	
(usft)	(usft)				
1	0.0	16,209.2 Plan #0.2 (OH)	MWD		
			OWSG MWD - Standard		

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
4,312.7	6.25	255.10	4,312.0	-4.4	-16.5	2.00	2.00	0.00	255.10	
10,497.9	6.25	255.10	10,460.5	-177.6	-667.5	0.00	0.00	0.00	0.00	
10,810.5	0.00	0.00	10,772.5	-182.0	-684.0	2.00	-2.00	0.00	180.00 KOP (Della 29 Federe	
11,560.5	90.00	359.54	11,250.0	295.4	-687.8	12.00	12.00	-0.06	359.54	
16,209.2	90.00	359.54	11,250.0	4,944.0	-725.0	0.00	0.00	0.00	0.00 PBHL (Della 29 Feder	

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Della 29 Fed Com
Well: #606H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #606H
TVD Reference: KB = 25 @ 3734.0usft
MD Reference: KB = 25 @ 3734.0usft
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	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	255.10	4,100.0	-0.4	-1.7	-0.2	2.00	2.00	0.00
4,200.0	4.00	255.10	4,199.8	-1.8	-6.7	-0.8	2.00	2.00	0.00
4,300.0	6.00	255.10	4,299.5	-4.0	-15.2	-1.8	2.00	2.00	0.00
4,312.7	6.25	255.10	4,312.0	-4.4	-16.5	-1.9	2.00	2.00	0.00
4,400.0	6.25	255.10	4,398.9	-6.8	-25.7	-3.0	0.00	0.00	0.00
4,500.0	6.25	255.10	4,498.3	-9.6	-36.2	-4.3	0.00	0.00	0.00
4,600.0	6.25	255.10	4,597.7	-12.4	-46.7	-5.5	0.00	0.00	0.00
4,700.0	6.25	255.10	4,697.1	-15.2	-57.2	-6.8	0.00	0.00	0.00
4,800.0	6.25	255.10	4,796.5	-18.0	-67.8	-8.0	0.00	0.00	0.00
4,900.0	6.25	255.10	4,895.9	-20.8	-78.3	-9.3	0.00	0.00	0.00
5,000.0	6.25	255.10	4,995.3	-23.6	-88.8	-10.5	0.00	0.00	0.00
5,100.0	6.25	255.10	5,094.7	-26.4	-99.3	-11.7	0.00	0.00	0.00
5,200.0	6.25	255.10	5,194.1	-29.2	-109.9	-13.0	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #606H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3734.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3734.0usft
Site:	Della 29 Fed Com	North Reference:	Grid
Well:	#606H	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	6.25	255.10	5,293.5	-32.0	-120.4	-14.2	0.00	0.00	0.00
5,400.0	6.25	255.10	5,392.9	-34.8	-130.9	-15.5	0.00	0.00	0.00
5,500.0	6.25	255.10	5,492.3	-37.6	-141.5	-16.7	0.00	0.00	0.00
5,600.0	6.25	255.10	5,591.7	-40.4	-152.0	-18.0	0.00	0.00	0.00
5,700.0	6.25	255.10	5,691.1	-43.2	-162.5	-19.2	0.00	0.00	0.00
5,800.0	6.25	255.10	5,790.5	-46.0	-173.0	-20.4	0.00	0.00	0.00
5,900.0	6.25	255.10	5,889.9	-48.8	-183.6	-21.7	0.00	0.00	0.00
6,000.0	6.25	255.10	5,989.3	-51.6	-194.1	-22.9	0.00	0.00	0.00
6,100.0	6.25	255.10	6,088.7	-54.4	-204.6	-24.2	0.00	0.00	0.00
6,200.0	6.25	255.10	6,188.2	-57.2	-215.1	-25.4	0.00	0.00	0.00
6,300.0	6.25	255.10	6,287.6	-60.0	-225.7	-26.7	0.00	0.00	0.00
6,400.0	6.25	255.10	6,387.0	-62.8	-236.2	-27.9	0.00	0.00	0.00
6,500.0	6.25	255.10	6,486.4	-65.6	-246.7	-29.2	0.00	0.00	0.00
6,600.0	6.25	255.10	6,585.8	-68.4	-257.2	-30.4	0.00	0.00	0.00
6,700.0	6.25	255.10	6,685.2	-71.2	-267.8	-31.6	0.00	0.00	0.00
6,800.0	6.25	255.10	6,784.6	-74.0	-278.3	-32.9	0.00	0.00	0.00
6,900.0	6.25	255.10	6,884.0	-76.8	-288.8	-34.1	0.00	0.00	0.00
7,000.0	6.25	255.10	6,983.4	-79.6	-299.3	-35.4	0.00	0.00	0.00
7,100.0	6.25	255.10	7,082.8	-82.5	-309.9	-36.6	0.00	0.00	0.00
7,200.0	6.25	255.10	7,182.2	-85.3	-320.4	-37.9	0.00	0.00	0.00
7,300.0	6.25	255.10	7,281.6	-88.1	-330.9	-39.1	0.00	0.00	0.00
7,400.0	6.25	255.10	7,381.0	-90.9	-341.4	-40.4	0.00	0.00	0.00
7,500.0	6.25	255.10	7,480.4	-93.7	-352.0	-41.6	0.00	0.00	0.00
7,600.0	6.25	255.10	7,579.8	-96.5	-362.5	-42.8	0.00	0.00	0.00
7,700.0	6.25	255.10	7,679.2	-99.3	-373.0	-44.1	0.00	0.00	0.00
7,800.0	6.25	255.10	7,778.6	-102.1	-383.5	-45.3	0.00	0.00	0.00
7,900.0	6.25	255.10	7,878.0	-104.9	-394.1	-46.6	0.00	0.00	0.00
8,000.0	6.25	255.10	7,977.4	-107.7	-404.6	-47.8	0.00	0.00	0.00
8,100.0	6.25	255.10	8,076.8	-110.5	-415.1	-49.1	0.00	0.00	0.00
8,200.0	6.25	255.10	8,176.3	-113.3	-425.7	-50.3	0.00	0.00	0.00
8,300.0	6.25	255.10	8,275.7	-116.1	-436.2	-51.5	0.00	0.00	0.00
8,400.0	6.25	255.10	8,375.1	-118.9	-446.7	-52.8	0.00	0.00	0.00
8,500.0	6.25	255.10	8,474.5	-121.7	-457.2	-54.0	0.00	0.00	0.00
8,600.0	6.25	255.10	8,573.9	-124.5	-467.8	-55.3	0.00	0.00	0.00
8,700.0	6.25	255.10	8,673.3	-127.3	-478.3	-56.5	0.00	0.00	0.00
8,800.0	6.25	255.10	8,772.7	-130.1	-488.8	-57.8	0.00	0.00	0.00
8,900.0	6.25	255.10	8,872.1	-132.9	-499.3	-59.0	0.00	0.00	0.00
9,000.0	6.25	255.10	8,971.5	-135.7	-509.9	-60.3	0.00	0.00	0.00
9,100.0	6.25	255.10	9,070.9	-138.5	-520.4	-61.5	0.00	0.00	0.00
9,200.0	6.25	255.10	9,170.3	-141.3	-530.9	-62.7	0.00	0.00	0.00
9,300.0	6.25	255.10	9,269.7	-144.1	-541.4	-64.0	0.00	0.00	0.00
9,400.0	6.25	255.10	9,369.1	-146.9	-552.0	-65.2	0.00	0.00	0.00
9,500.0	6.25	255.10	9,468.5	-149.7	-562.5	-66.5	0.00	0.00	0.00
9,600.0	6.25	255.10	9,567.9	-152.5	-573.0	-67.7	0.00	0.00	0.00
9,700.0	6.25	255.10	9,667.3	-155.3	-583.5	-69.0	0.00	0.00	0.00
9,800.0	6.25	255.10	9,766.7	-158.1	-594.1	-70.2	0.00	0.00	0.00
9,900.0	6.25	255.10	9,866.1	-160.9	-604.6	-71.4	0.00	0.00	0.00
10,000.0	6.25	255.10	9,965.5	-163.7	-615.1	-72.7	0.00	0.00	0.00
10,100.0	6.25	255.10	10,064.9	-166.5	-625.6	-73.9	0.00	0.00	0.00
10,200.0	6.25	255.10	10,164.4	-169.3	-636.2	-75.2	0.00	0.00	0.00
10,300.0	6.25	255.10	10,263.8	-172.1	-646.7	-76.4	0.00	0.00	0.00
10,400.0	6.25	255.10	10,363.2	-174.9	-657.2	-77.7	0.00	0.00	0.00
10,497.9	6.25	255.10	10,460.5	-177.6	-667.5	-78.9	0.00	0.00	0.00
10,500.0	6.21	255.10	10,462.6	-177.7	-667.8	-78.9	2.00	-2.00	0.00

Database: EDM 5000.14
 Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Della 29 Fed Com
 Well: #606H
 Wellbore: OH
 Design: Plan #0.2

Local Co-ordinate Reference: Well #606H
 TVD Reference: KB = 25 @ 3734.0usft
 MD Reference: KB = 25 @ 3734.0usft
 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)
10,600.0	4.21	255.10	10,562.1	-180.0	-676.5	-79.9	2.00	-2.00	0.00
10,700.0	2.21	255.10	10,662.0	-181.5	-681.9	-80.6	2.00	-2.00	0.00
10,800.0	0.21	255.10	10,762.0	-182.0	-684.0	-80.8	2.00	-2.00	0.00
10,810.5	0.00	0.00	10,772.5	-182.0	-684.0	-80.8	2.00	-2.00	0.00
KOP (Della 29 Federal #606H)									
10,825.0	1.74	359.54	10,787.0	-181.8	-684.0	-80.6	12.00	12.00	0.00
10,850.0	4.74	359.54	10,811.9	-180.4	-684.0	-79.2	12.00	12.00	0.00
10,875.0	7.74	359.54	10,836.8	-177.7	-684.0	-76.5	12.00	12.00	0.00
10,900.0	10.74	359.54	10,861.4	-173.6	-684.1	-72.6	12.00	12.00	0.00
10,925.0	13.74	359.54	10,885.9	-168.3	-684.1	-67.3	12.00	12.00	0.00
10,950.0	16.74	359.54	10,910.0	-161.8	-684.2	-60.8	12.00	12.00	0.00
10,975.0	19.74	359.54	10,933.7	-154.0	-684.2	-53.1	12.00	12.00	0.00
11,000.0	22.74	359.54	10,957.0	-144.9	-684.3	-44.1	12.00	12.00	0.00
11,025.0	25.74	359.54	10,979.8	-134.6	-684.4	-33.9	12.00	12.00	0.00
11,050.0	28.74	359.54	11,002.0	-123.2	-684.5	-22.6	12.00	12.00	0.00
11,075.0	31.74	359.54	11,023.6	-110.6	-684.6	-10.1	12.00	12.00	0.00
11,100.0	34.74	359.54	11,044.6	-96.9	-684.7	3.4	12.00	12.00	0.00
11,125.0	37.74	359.54	11,064.7	-82.1	-684.8	18.1	12.00	12.00	0.00
11,150.0	40.74	359.54	11,084.1	-66.3	-684.9	33.7	12.00	12.00	0.00
11,175.0	43.74	359.54	11,102.6	-49.5	-685.1	50.4	12.00	12.00	0.00
11,200.0	46.74	359.54	11,120.2	-31.8	-685.2	68.0	12.00	12.00	0.00
11,211.7	48.14	359.54	11,128.1	-23.2	-685.3	76.5	12.00	12.00	0.00
FTP (Della 29 Federal #606H)									
11,225.0	49.74	359.54	11,136.8	-13.1	-685.4	86.4	12.00	12.00	0.00
11,250.0	52.74	359.54	11,152.5	6.4	-685.5	105.7	12.00	12.00	0.00
11,275.0	55.74	359.54	11,167.1	26.6	-685.7	125.8	12.00	12.00	0.00
11,300.0	58.74	359.54	11,180.6	47.7	-685.8	146.7	12.00	12.00	0.00
11,325.0	61.74	359.54	11,193.0	69.4	-686.0	168.2	12.00	12.00	0.00
11,350.0	64.74	359.54	11,204.3	91.7	-686.2	190.3	12.00	12.00	0.00
11,375.0	67.74	359.54	11,214.4	114.5	-686.4	212.9	12.00	12.00	0.00
11,400.0	70.74	359.54	11,223.2	137.9	-686.6	236.1	12.00	12.00	0.00
11,425.0	73.74	359.54	11,230.9	161.7	-686.7	259.7	12.00	12.00	0.00
11,450.0	76.74	359.54	11,237.2	185.9	-686.9	283.6	12.00	12.00	0.00
11,475.0	79.74	359.54	11,242.3	210.4	-687.1	307.8	12.00	12.00	0.00
11,500.0	82.74	359.54	11,246.1	235.1	-687.3	332.3	12.00	12.00	0.00
11,525.0	85.74	359.54	11,248.6	259.9	-687.5	356.9	12.00	12.00	0.00
11,550.0	88.74	359.54	11,249.8	284.9	-687.7	381.7	12.00	12.00	0.00
11,560.5	90.00	359.54	11,250.0	295.4	-687.8	392.1	12.00	12.00	0.00
11,600.0	90.00	359.54	11,250.0	334.9	-688.1	431.2	0.00	0.00	0.00
11,700.0	90.00	359.54	11,250.0	434.9	-688.9	530.3	0.00	0.00	0.00
11,800.0	90.00	359.54	11,250.0	534.9	-689.7	629.3	0.00	0.00	0.00
11,900.0	90.00	359.54	11,250.0	634.9	-690.5	728.4	0.00	0.00	0.00
12,000.0	90.00	359.54	11,250.0	734.9	-691.3	827.4	0.00	0.00	0.00
12,100.0	90.00	359.54	11,250.0	834.9	-692.1	926.5	0.00	0.00	0.00
12,200.0	90.00	359.54	11,250.0	934.9	-692.9	1,025.5	0.00	0.00	0.00
12,300.0	90.00	359.54	11,250.0	1,034.9	-693.7	1,124.6	0.00	0.00	0.00
12,400.0	90.00	359.54	11,250.0	1,134.9	-694.5	1,223.6	0.00	0.00	0.00
12,500.0	90.00	359.54	11,250.0	1,234.9	-695.3	1,322.7	0.00	0.00	0.00
12,600.0	90.00	359.54	11,250.0	1,334.9	-696.1	1,421.8	0.00	0.00	0.00
12,700.0	90.00	359.54	11,250.0	1,434.9	-696.9	1,520.8	0.00	0.00	0.00
12,800.0	90.00	359.54	11,250.0	1,534.9	-697.7	1,619.9	0.00	0.00	0.00
12,900.0	90.00	359.54	11,250.0	1,634.9	-698.5	1,718.9	0.00	0.00	0.00
13,000.0	90.00	359.54	11,250.0	1,734.9	-699.3	1,818.0	0.00	0.00	0.00
13,100.0	90.00	359.54	11,250.0	1,834.9	-700.1	1,917.0	0.00	0.00	0.00

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well #606H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3734.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB = 25 @ 3734.0usft
Site:	Della 29 Fed Com	North Reference:	Grid
Well:	#606H	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)
13,200.0	90.00	359.54	11,250.0	1,934.9	-700.9	2,016.1	0.00	0.00	0.00
13,300.0	90.00	359.54	11,250.0	2,034.9	-701.7	2,115.1	0.00	0.00	0.00
13,400.0	90.00	359.54	11,250.0	2,134.8	-702.5	2,214.2	0.00	0.00	0.00
13,500.0	90.00	359.54	11,250.0	2,234.8	-703.3	2,313.2	0.00	0.00	0.00
13,600.0	90.00	359.54	11,250.0	2,334.8	-704.1	2,412.3	0.00	0.00	0.00
13,700.0	90.00	359.54	11,250.0	2,434.8	-704.9	2,511.4	0.00	0.00	0.00
13,800.0	90.00	359.54	11,250.0	2,534.8	-705.7	2,610.4	0.00	0.00	0.00
13,900.0	90.00	359.54	11,250.0	2,634.8	-706.5	2,709.5	0.00	0.00	0.00
14,000.0	90.00	359.54	11,250.0	2,734.8	-707.3	2,808.5	0.00	0.00	0.00
14,100.0	90.00	359.54	11,250.0	2,834.8	-708.1	2,907.6	0.00	0.00	0.00
14,200.0	90.00	359.54	11,250.0	2,934.8	-708.9	3,006.6	0.00	0.00	0.00
14,300.0	90.00	359.54	11,250.0	3,034.8	-709.7	3,105.7	0.00	0.00	0.00
14,400.0	90.00	359.54	11,250.0	3,134.8	-710.5	3,204.7	0.00	0.00	0.00
14,500.0	90.00	359.54	11,250.0	3,234.8	-711.3	3,303.8	0.00	0.00	0.00
14,600.0	90.00	359.54	11,250.0	3,334.8	-712.1	3,402.8	0.00	0.00	0.00
14,700.0	90.00	359.54	11,250.0	3,434.8	-712.9	3,501.9	0.00	0.00	0.00
14,800.0	90.00	359.54	11,250.0	3,534.8	-713.7	3,601.0	0.00	0.00	0.00
14,900.0	90.00	359.54	11,250.0	3,634.8	-714.5	3,700.0	0.00	0.00	0.00
15,000.0	90.00	359.54	11,250.0	3,734.8	-715.3	3,799.1	0.00	0.00	0.00
15,100.0	90.00	359.54	11,250.0	3,834.8	-716.1	3,898.1	0.00	0.00	0.00
15,200.0	90.00	359.54	11,250.0	3,934.8	-716.9	3,997.2	0.00	0.00	0.00
15,300.0	90.00	359.54	11,250.0	4,034.8	-717.7	4,096.2	0.00	0.00	0.00
15,400.0	90.00	359.54	11,250.0	4,134.8	-718.5	4,195.3	0.00	0.00	0.00
15,500.0	90.00	359.54	11,250.0	4,234.8	-719.3	4,294.3	0.00	0.00	0.00
15,600.0	90.00	359.54	11,250.0	4,334.8	-720.1	4,393.4	0.00	0.00	0.00
15,700.0	90.00	359.54	11,250.0	4,434.8	-720.9	4,492.4	0.00	0.00	0.00
15,800.0	90.00	359.54	11,250.0	4,534.8	-721.7	4,591.5	0.00	0.00	0.00
15,900.0	90.00	359.54	11,250.0	4,634.8	-722.5	4,690.6	0.00	0.00	0.00
16,000.0	90.00	359.54	11,250.0	4,734.8	-723.3	4,789.6	0.00	0.00	0.00
16,100.0	90.00	359.54	11,250.0	4,834.8	-724.1	4,888.7	0.00	0.00	0.00
16,209.2	90.00	359.54	11,250.0	4,944.0	-725.0	4,996.9	0.00	0.00	0.00
PBHL (Della 29 Federal #606H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
KOP (Della 29 Federal # - hit/miss target - Shape - plan hits target center - Point	0.00	0.00	10,772.5	-182.0	-684.0	559,901.00	770,427.00	32° 32' 13.303 N	103° 35' 23.819 W
PBHL (Della 29 Federal - plan hits target center - Point	0.00	0.00	11,250.0	4,944.0	-725.0	565,027.00	770,386.00	32° 33' 4.026 N	103° 35' 23.880 W
FTP (Della 29 Federal # - plan misses target center by 163.4usft at 11211.7usft MD (11128.1 TVD, -23.2 N, -685.3 E) - Point	0.00	0.00	11,250.0	-132.0	-684.0	559,951.00	770,427.00	32° 32' 13.797 N	103° 35' 23.815 W

PECOS DISTRICT

DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	EOG RESOURCES INC.
LEASE NO.:	NMNM128367
WELL NAME & NO.:	606H -DELLA 29 FEDERAL
SURFACE HOLE FOOTAGE:	230'/S & 1015'/W
BOTTOM HOLE FOOTAGE:	100'/N & 330'/W
LOCATION:	Section 29 T.20 S., R.34E., NMP
COUNTY:	LEA County, New Mexico

COA

H2S	☐ Yes	☒ No	
Potash	☐ None	☐ Secretary	☒ R-111-P
Cave/Karst Potential	☒ Low	☐ Medium	☐ High
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☒ Capitan Reef	☐ WIPP

All previous COAs still apply except the following.

A. CASING

1. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is cement to surface.

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.**
- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

- Switch to fresh water mud to protect the Capitan Reef and use fresh water mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
- Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

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

- Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Excess calculates to -58% - additional cement might be required.**

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