

Form 3160-5
(June 2015)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.
NMNM139386

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.
BULLITT 06 FED 605H9. API Well No.
30-043-21354-00-X110. Field and Pool or Exploratory Area
WILDCAT WC 21N4W6;GALLUP11. County or Parish, State
SANDOVAL COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Contact: LACEY GRANILLO

EOG RESOURCES INCORPORATED-DE-Mail: lacey_granillo@eogresources.com

3a. Address

1111 BAGBY ST., SKY LOBBY 2
HOUSTON, TX 77002

3b. Phone No. (include area code)

Ph: 575-909-5284

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

Sec 6 T21N R4W Lot 14 1058FSL 579FWL
36.073647 N Lat, 107.304077 W Lon**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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.

CHANGE IN PLANS

EOG Resources, Inc. requests a change to the drilling program per attached updated:

OPS plan:

Surface casing weight and grade

Intermediate casing setting depth

Production casing weight and grade

Cement volumes

Pilot depth

Stimulation change

Cement plug depth

Survey- pilot hole

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

Electronic Submission #541650 verified by the BLM Well Information System
For EOG RESOURCES INCORPORATED, sent to the Farmington
Committed to AFMSS for processing by JOE KILLINS on 12/28/2020 (21JK0067SE)

Name (Printed/Typed) LACEY GRANILLO

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 12/22/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By JOE KILLINS

Title ENGINEER

Date 12/28/2020

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 Farmington

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 ****

Additional data for EC transaction #541650 that would not fit on the form

32. Additional remarks, continued

Wellbore

Revisions to Operator-Submitted EC Data for Sundry Notice #541650

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM139386	NMNM139386
Agreement:		
Operator:	EOG RESOURCES, INC 104 S. 4TH STREET ARTESIA, NM 88210 Ph: 575-909-5284	EOG RESOURCES INCORPORATED 1111 BAGBY ST., SKY LOBBY 2 HOUSTON, TX 77002 Ph: 7136517000
Admin Contact:	LACEY GRANILLO REGULATORY SPECIALIST E-Mail: lacey_granillo@eogresources.com Ph: 575-909-5284	LACEY GRANILLO REGULATORY SPECIALIST E-Mail: lacey_granillo@eogresources.com Ph: 575-909-5284
Tech Contact:	LACEY GRANILLO REGULATORY SPECIALIST E-Mail: lacey_granillo@eogresources.com Ph: 575-909-5284	LACEY GRANILLO REGULATORY SPECIALIST E-Mail: lacey_granillo@eogresources.com Ph: 575-909-5284
Location:		
State:	NM	NM
County:	SANDOVAL	SANDOVAL
Field/Pool:	WILDCAT	WILDCAT
Well/Facility:	BULLITT 06 FED 605H Sec 6 T21N R4W Mer NMP 1058FSL 579FWL 36.073646 N Lat, 107.304080 W Lon	BULLITT 06 FED 605H Sec 6 T21N R4W Lot 14 1058FSL 579FWL 36.073647 N Lat, 107.304077 W Lon

579' FWL
Section 6
T-21N, R-4W

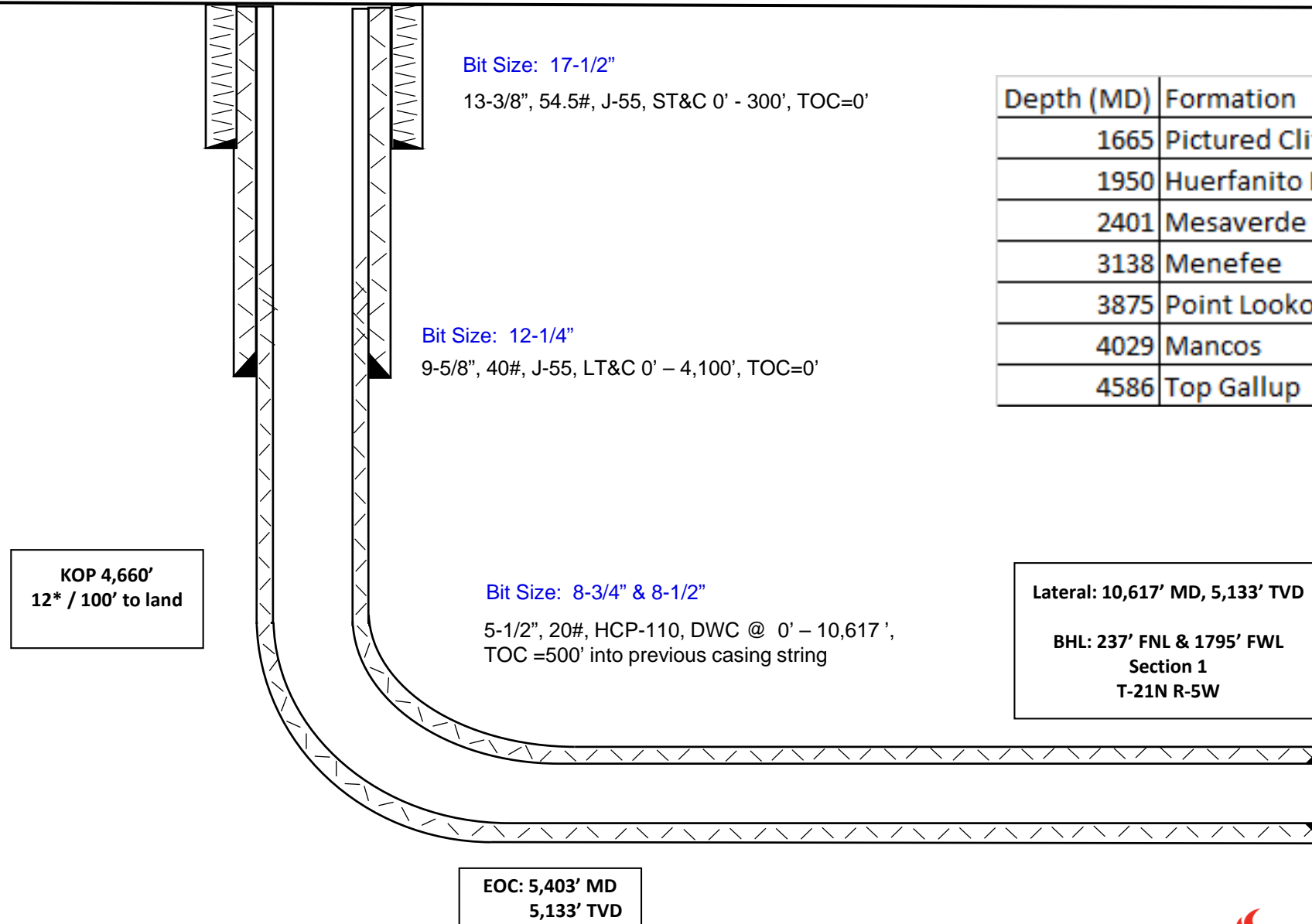
Bullitt 06 Fed #605H

Proposed Wellbore

30-043-21354

GL: 7,063'

KB: 7,081'





EOG Resources - Artesia

Sandoval County (NAD83)

Bullitt

Bullitt 06 Fed #605H

Pilot Hole

Plan: Plan #1

Standard Planning Report

07 December, 2020



EOG Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Bullitt 06 Fed #605H
Company:	EOG Resources - Artesia	TVD Reference:	KB @ 7088.0usft (Aztec Rig #1000)
Project:	Sandoval County (NAD83)	MD Reference:	KB @ 7088.0usft (Aztec Rig #1000)
Site:	Bullitt	North Reference:	Grid
Well:	Bullitt 06 Fed #605H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Plan #1		

Project	Sandoval County (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	Bullitt				
Site Position:		Northing:	1,847,706.00 usft	Latitude:	36° 4' 24.595 N
From:	Map	Easting:	1,328,870.00 usft	Longitude:	107° 18' 15.327 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.62 °

Well	Bullitt 06 Fed #605H					
Well Position	+N/-S	53.0 usft	Northing:	1,847,759.00 usft	Latitude:	36° 4' 25.125 N
	+E/-W	53.0 usft	Easting:	1,328,923.00 usft	Longitude:	107° 18' 14.688 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	7,063.0 usft

Wellbore	Pilot Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/26/2020	8.67	62.72	49,339.79118700

Design	Plan #1			
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	0.00

Plan Survey Tool Program	Date	12/7/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	6,500.0	Plan #1 (Pilot Hole)	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	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.00	0.00	0.00	0.00	

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well Bullitt 06 Fed #605H
Company:	EOG Resources - Artesia	TVD Reference:	KB @ 7088.0usft (Aztec Rig #1000)
Project:	Sandoval County (NAD83)	MD Reference:	KB @ 7088.0usft (Aztec Rig #1000)
Site:	Bullitt	North Reference:	Grid
Well:	Bullitt 06 Fed #605H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Plan #1		

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
1,187.0	0.00	0.00	1,187.0	0.0	0.0	0.0	0.00	0.00	0.00
Ojo Alamo									
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
1,688.0	0.00	0.00	1,688.0	0.0	0.0	0.0	0.00	0.00	0.00
Pictured Cliffs									
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
1,973.0	0.00	0.00	1,973.0	0.0	0.0	0.0	0.00	0.00	0.00
Huerfano Bentonite									
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
2,424.0	0.00	0.00	2,424.0	0.0	0.0	0.0	0.00	0.00	0.00
Mesaverde									
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
3,161.0	0.00	0.00	3,161.0	0.0	0.0	0.0	0.00	0.00	0.00
Menefee									
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
3,898.0	0.00	0.00	3,898.0	0.0	0.0	0.0	0.00	0.00	0.00
Point Lookout									
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



EOG Resources

Planning Report

Database:	EDM	Local Co-ordinate Reference:	Well Bullitt 06 Fed #605H
Company:	EOG Resources - Artesia	TVD Reference:	KB @ 7088.0usft (Aztec Rig #1000)
Project:	Sandoval County (NAD83)	MD Reference:	KB @ 7088.0usft (Aztec Rig #1000)
Site:	Bullitt	North Reference:	Grid
Well:	Bullitt 06 Fed #605H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Plan #1		

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)	
4,048.0	0.00	0.00	4,048.0	0.0	0.0	0.0	0.00	0.00	0.00	
Mancos										
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,610.0	0.00	0.00	4,610.0	0.0	0.0	0.0	0.00	0.00	0.00	
Top Gallup										
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,945.0	0.00	0.00	4,945.0	0.0	0.0	0.0	0.00	0.00	0.00	
Middle Gallup										
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,058.0	0.00	0.00	5,058.0	0.0	0.0	0.0	0.00	0.00	0.00	
Lower Gallup										
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,541.0	0.00	0.00	5,541.0	0.0	0.0	0.0	0.00	0.00	0.00	
Sanostee										
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,657.0	0.00	0.00	5,657.0	0.0	0.0	0.0	0.00	0.00	0.00	
Carlie										
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,864.0	0.00	0.00	5,864.0	0.0	0.0	0.0	0.00	0.00	0.00	
Greenhorn										
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,922.0	0.00	0.00	5,922.0	0.0	0.0	0.0	0.00	0.00	0.00	
Graneros										
5,935.0	0.00	0.00	5,935.0	0.0	0.0	0.0	0.00	0.00	0.00	
Dakota										
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,340.0	0.00	0.00	6,340.0	0.0	0.0	0.0	0.00	0.00	0.00	
Morrison										
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	

EOG Resources

Planning Report



Database:	EDM	Local Co-ordinate Reference:	Well Bullitt 06 Fed #605H
Company:	EOG Resources - Artesia	TVD Reference:	KB @ 7088.0usft (Aztec Rig #1000)
Project:	Sandoval County (NAD83)	MD Reference:	KB @ 7088.0usft (Aztec Rig #1000)
Site:	Bullitt	North Reference:	Grid
Well:	Bullitt 06 Fed #605H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Pilot Hole		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,187.0	1,187.0	Ojo Alamo				
1,688.0	1,688.0	Pictured Cliffs				
1,973.0	1,973.0	Huerfano Bentonite				
2,424.0	2,424.0	Mesaverde				
3,161.0	3,161.0	Menefee				
3,898.0	3,898.0	Point Lookout				
4,048.0	4,048.0	Mancos				
4,610.0	4,610.0	Top Gallup				
4,945.0	4,945.0	Middle Gallup				
5,058.0	5,058.0	Lower Gallup				
5,541.0	5,541.0	Sanostee		0.00		
5,657.0	5,657.0	Carlisle		0.00		
5,864.0	5,864.0	Greenhorn		0.00		
5,922.0	5,922.0	Graneros		0.00		
5,935.0	5,935.0	Dakota		0.00		
6,340.0	6,340.0	Morrison		0.00		

**EOG RESOURCES, INC.
BULLITT 06 FED NO. 605H**

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-043-21354		² Pool Code		³ Pool Name WILDCAT OIL					
⁴ Property Code		⁵ Property Name BULLITT 6 FED						⁶ Well Number 605H	
⁷ OGRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.						⁹ Elevation 7063'	
¹⁰ Surface Location									
UL or lot no. 14	Section 6	Township 21-N	Range 4-W	Lot Idn -	Feet from the 1058'	North/South line SOUTH	Feet from the 579'	East/West line WEST	County SANDOVAL
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. 3	Section 1	Township 21-N	Range 5-W	Lot Idn -	Feet from the 237'	North/South line NORTH	Feet from the 1795'	East/West line WEST	County SANDOVAL
¹² Dedicated Acres 398.62		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

1. GEOLOGIC NAME OF SURFACE FORMATION:

Nacimientito

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

	MD	TVD
Pictured Cliffs	1,665'	1,665'
Huerfanito Bentonite	1,950'	1,950'
Mesaverde	2,401'	2,401'
Menefee	3,138'	3,138'
Point Lookout	3,875'	3,875'
Mancos Shale	4,029'	4,029'
Gallup	4,586'	4,586'
Sanostee	5,518'	5,518'
Greenhorn	5,841'	5,841'
Dakota	5,912'	5,912'
Pilot Hole TD	6,500'	6,500'
Horizontal TD	10,616'	5,133'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

	TVD	
Pictured Cliffs	1,665'	Gas
Mesaverde	2,401'	Gas
Menefee	3,138'	Gas/Oil
Point Lookout	3,875'	Oil
Mancos Shale	4,029'	Oil
Gallup	4,586'	Oil
Sanostee	5,518'	Oil
Dakota	5,912'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities. Surface fresh water sands will be protected by setting 13.375" casing at 300' and circulating cement back to surface.

**EOG RESOURCES, INC.
BULLITT 06 FED NO. 605H**

4. PILOT HOLE

EOG Resources plans on drilling an 8-3/4" pilot hole to an approximate depth of 6,500' where whole core will be taken and logging suite variety will be ran from TD to surface. A KO plug and isolation plug will be set.

5. CASING PROGRAM - NEW

Hole & Casing String:

Hole Size	Interval MD	Interval TVD	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Joint Tension	DF _{min} Body Tension
17.5"	0'-300'	300'	13 3/8"	54.5#	J-55	STC	1.125	1.25	1.60	1.80
12.25"	0' - 4,100'	4,100'	9 5/8"	40#	J-55	LTC	1.125	1.25	1.60	1.80
8.75"	0' - 5,403'	5,133'	5 1/2"	20#	HCP-110	DWC	1.125	1.25	1.60	1.80
8.5"	5,403' - 10,617'	5,133'	5 1/2"	20#	HCP-110	DWC	1.125	1.25	1.60	1.80

Cementing Program:

Note: Cement volumes based on bit size plus at least 100% excess on surface (TOC @ Surface), 100% excess in intermediate (TOC @ Surface), 0% excess over caliper log in pilot hole, bottom plug and kickoff plug and lead 50% excess OH and 35% excess tail in production string (TOC @ 500' into previous casing string).

Cement Design:

Depth	No. Sacks	Wt. lb/gal	Yld Ft ³ /sk	Volume Ft ³	Slurry Description
300'	340	14.8	1.34	456	Tail: Type III + .25 PPS LCM Flake (100% excess)
4,100'	1070	12.7	2.09	2236	Lead: Type III + .04% Anti Foam + 1% Extender + .13 lb/sk Lost Circulation (100% excess)
	223	15.8	1.15	256	Tail: Class G + 0.1% Retarder + .25 PPS LCM
10,617'	176	12.5	1.95	343	Lead: 50/50 Poz Class G + .4% Fluid Loss + 6% Bentonite + 10% Silica Fume + .2% Iron + .1% Antisettling Agent + 1% Agent Expanding
	1235	13.5	1.52	1877	Tail: Class G + 4% Bentonite + 0.4% Fluid Loss + 0.25% Anti Settling Agent + .55% Retarder + 1% Agent Expanding
4,300' - 5,300'	425	17	.99	421	Class G + .15% Retarder + .15% fluid loss (pilot hole kickoff plug)
5,300' - 6,500'	440	15.8	1.15	506	Class G + .15% Retarder + .15% fluid loss (pilot hole bottom plug)

**EOG RESOURCES, INC.
BULLITT 06 FED NO. 605H**

6. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

A variance is requested to use a co-flex line between the BOP and choke manifold, dependent on rig selection (instead of using a steel line). Certification and specs are attached at the end of the drilling plan.

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a double rams with blind rams & pipe rams preventer (5,000 psi WP) and an annular preventer (5,000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5,000/ 250 psig and the annular preventer to 1,500/ 250 psig. The surface casing will be tested to 1200 psi for 30 minutes.

Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

A hydraulically operated choke will be installed prior to drilling out of the surface casing shoe.

7. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

During this procedure we plan to use a Closed-Loop System and haul contents to the required disposal.

The applicable depths and properties of the drilling fluid systems are as follows.

Depth	Type	Weight (ppg)	Viscosity	Water Loss	Comments
0 – 300'	Fresh Water	8.6-8.8	28-32	N/c	
300' – 4,100' Vertical	WBM	8.8-9.4	30-34	N/c	
4,100' - 6,500' Pilot	WBM	8.8-9.4	30-34	<10	OBM Requested as a contingency
4,300' – 10,617' Curve/Lateral	WBM	8.8-9.4	30-34	<10	OBM Requested as a contingency

The highest mud weight needed to balance formation is expected to be 9.4 ppg. In order to maintain hole stability, mud weights up to 9.4 ppg may be utilized.

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

**EOG RESOURCES, INC.
BULLITT 06 FED NO. 605H**

8. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (A) A kelly cock will be kept in the drill string at all times.
- (B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- (C) H₂S monitoring and detection equipment will be utilized from surface casing point to TD.

9. LOGGING, TESTING AND CORING PROGRAM:

EOG Resources plan to drill an 8-3/4" pilot hole to the proposed depth of 6,500' where we plan to retrieve 300' of whole core, sidewall cores, triple, di-pole sonic, image tool, elemental tool and NMR. GR-Directional surveys will be run in open hole during drilling phase of operations.

10. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

The estimated bottom-hole temperature (BHT) at pilot TD is 155 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3177 psig (based on 9.4 ppg MW) and horizontal TD is 140 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 2509 psig (based on 9.4 ppg MW). Hydrogen sulfide has been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from spud to surface casing point.

11. ANTICIPATED DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

- (A) EOG Resources requests the option to contract a Surface Rig to drill, set surface casing, and cement on the subject well. After WOC 8 hours or 500 psi compressive strength (whichever is greater), the Surface Rig will move off so the wellhead can be installed. A welder will cut the casing to the proper height and weld on the wellhead (both "A" and "B" sections). The weld will be tested to 1000 psi. All valves will be closed and a wellhead cap will be installed (diagram attached). If the timing between rigs is such that EOG Resources would not be able to preset the surface, the Primary Rig will MIRU and drill the well in its entirety per the APD.

**EOG RESOURCES, INC.
BULLITT 06 FED NO. 605H**

12. WELLHEAD:

A multi-bowl wellhead system will be utilized.

After running the 13-3/8" surface casing, a 13 3/8" BOP/BOPE system with a minimum working pressure of 5,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 5,000 psi pressure test. This pressure test will be repeated at least every 30 days, as per Onshore Order No. 2

The minimum working pressure of the BOP and related BOPE required for drilling below the surface casing shoe shall be 5,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s).

The wellhead will be installed by a third party welder while being monitored by WH vendor's representative.

All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

The surface casing string will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

12. COMPLETION AND PRODUCTION PLAN:

Frac: Lateral will be fracture stimulated with N2 foam fluid.

Flowback: Well will be flowed back through production tubing. An ESP may be used to assist in load water recovery.

Production: Well will produce up production tubing into production and storage facilities.



Midwest Hose & Specialty, Inc.

INTERNAL HYDROSTATIC TEST CERTIFICATE			
Customer: GRAND JUNCTION		Customer P.O. Number: 178755	
HOSE SPECIFICATIONS			
Type: CHOKER HOSE GRADE E / API 7K		Hose Length: 15 FEET	
I.D. 4 INCHES		O.D. 6.11 INCHES	
WORKING PRESSURE 10,000 PSI	TEST PRESSURE 15,000 PSI	BURST PRESSURE N/A PSI	
COUPLINGS			
Part Number E4.0X64WB E4.0X64WB	Stem Lot Number 8099764 8099764	Ferrule Lot Number N4406 N4406	
Type of Coupling: SWAGE-IT		Die Size: 6.62 INCHES	
PROCEDURE			
<i>Hose assembly pressure tested with water at ambient temperature.</i>			
TIME HELD AT TEST PRESSURE 9 3/4 MIN.		ACTUAL BURST PRESSURE: N/A PSI	
Hose Assembly Serial Number: 197000		Hose Serial Number: 10088	
Comments:			
Date: 4/10/2013	Tested: <i>Belle Belek</i>	Approved: <i>John D. Allen</i>	

April 10, 2013

Internal Hydrostatic Test Graph

Midwest Hose
& Specialty, Inc.

Customer: Grand J

Pick Ticket #: 197000

Hose SpecificationsHose Type

E

Length

15'

I.D.

4"

O.D.

6.11"

Working Pressure

10000 PSI

VerificationType of Fitting

4 1/16 10K

Coupling Method

Swage

Die Size

6.62

Final O.D.

6.65"

Hose Serial #

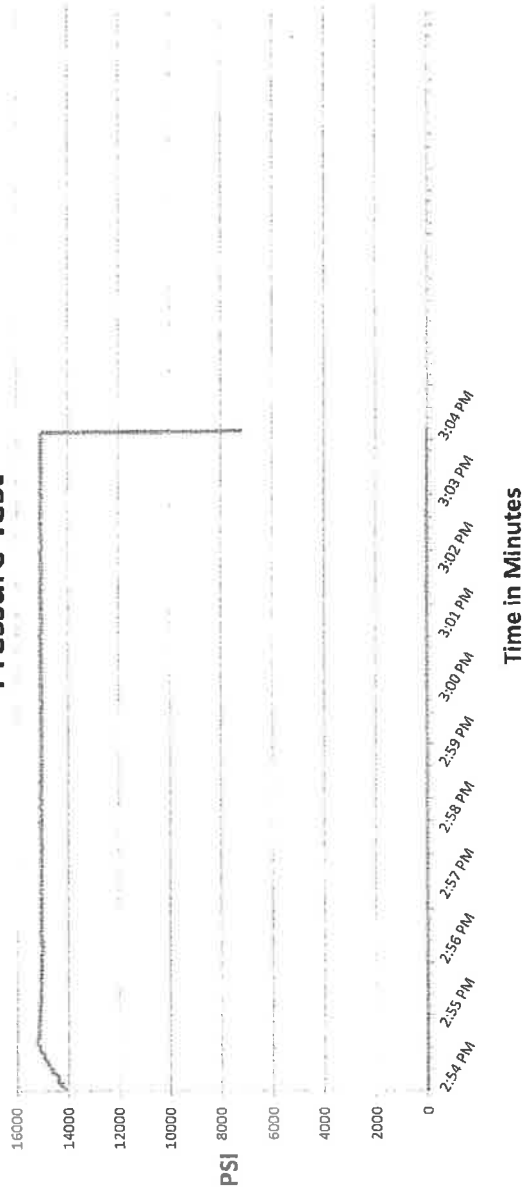
10088

Hose Assembly Serial #

197000

Standard Safety Multiplier Applies

Pressure Test

Test Pressure

15000 PSI

Time Held at Test Pressure

9 3/4 Minutes

Actual Burst PressurePeak Pressure

15263 PSI

Comments: Hose assembly pressure tested with water at ambient temperature.

Tested By: Billy Balak

Approved By: Joshua Dahlem

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 13156

COMMENTS

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	13156	Action Type:	C-103A
Created By	Comment					Comment Date			
kpickford	KP GEO Review 12/28/2020					12/28/2020			

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State of New Mexico
Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 13156

CONDITIONS OF APPROVAL

Operator:	EOG RESOURCES INC	P.O. Box 2267	Midland, TX79702	OGRID:	7377	Action Number:	13156	Action Type:	C-103A
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OCD Reviewer	Condition
kpickford	Surface Casing is required go to 320'
kpickford	Adhere to Previous NMOCD Conditions of Approval