

Well Name: BULLITT 06 FED	Well Location: T21N / R4W / SEC 6 / LOT 14 / 36.0736467 / -107.3040809	County or Parish/State: SANDOVAL / NM
Well Number: 605H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM139386	Unit or CA Name:	Unit or CA Number:
US Well Number: 3004321354	Well Status: Approved Application for Permit to Drill	Operator: EOG RESOURCES INCORPORATED

Notice of Intent

Type of Submission: Notice of Intent

Date Sundry Submitted: 07/01/2021

Date proposed operation will begin: 07/01/2021

Type of Action Other

Time Sundry Submitted: 10:52

Procedure Description: EOG Resources, Inc. requests a change to the drilling program per attached updated: OPS plan: Pilot hole size from 8-3/4" to 8-1/2" Cement volumes for the pilot hole plugback have been adjusted to reflect the hole size change Directional plan will remain the same.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Bullitt\_6\_Fed\_605H\_BLM\_ops\_Plan\_20210701104834.pdf
- 12\_15\_20\_Bullitt\_6\_Fed\_605H\_Wellbore\_Sketch\_20210701104834.pdf
- Bullitt\_06\_Fed\_605H\_Pilot\_Plan\_1\_Report\_12\_7\_20\_DRILL\_PLAN\_20210701104834.pdf

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<b>US Well Number:</b> 3004321354	<b>Well Status:</b> Approved Application for Permit to Drill	<b>Operator:</b> EOG RESOURCES INCORPORATED

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

**Operator Electronic Signature:** LACEY GRANILLO  
**Signed on:** JUL 01, 2021 10:48 AM  
**Name:** EOG RESOURCES INCORPORATED  
**Title:** Contractor Regulatory Specialist  
**Street Address:** 104 SOUTH FOURTH STREET  
**City:** ARTESIA **State:** NM  
**Phone:** (575) 909-5284  
**Email address:** LACEY\_GRANILLO@EOGRESOURCES.COM

Field Representative

**Representative Name:**  
**Street Address:**  
**City:** **State:** **Zip:**  
**Phone:**  
**Email address:**

BLM Point of Contact

**BLM POC Name:** KENNETH G RENNICK  
**BLM POC Phone:** 9708783846  
**Disposition:** Approved  
**Signature:** Kenneth Rennick  
**BLM POC Title:** Petroleum Engineer  
**BLM POC Email Address:** krennick@blm.gov  
**Disposition Date:** 08/10/2021



## **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



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



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<b>Project:</b>	Sandoval County (NAD83)	<b>MD Reference:</b>	KB @ 7088.0usft (Aztec Rig #1000)
<b>Site:</b>	Bullitt	<b>North Reference:</b>	Grid
<b>Well:</b>	Bullitt 06 Fed #605H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Pilot Hole		
<b>Design:</b>	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
<b>Ojo Alamo</b>									
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
<b>Pictured Cliffs</b>									
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
<b>Huerfano Bentonite</b>									
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
<b>Mesaverde</b>									
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
<b>Menefee</b>									
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
<b>Point Lookout</b>									
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



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<b>Well:</b>	Bullitt 06 Fed #605H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Pilot Hole		
<b>Design:</b>	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	
<b>Mancos</b>										
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	
<b>Top Gallup</b>										
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	
<b>Middle Gallup</b>										
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	
<b>Lower Gallup</b>										
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	
<b>Sanostee</b>										
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	
<b>Carlie</b>										
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	
<b>Greenhorn</b>										
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	
<b>Graneros</b>										
5,935.0	0.00	0.00	5,935.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>Dakota</b>										
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	
<b>Morrison</b>										
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

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<b>Site:</b>	Bullitt	<b>North Reference:</b>	Grid
<b>Well:</b>	Bullitt 06 Fed #605H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Pilot Hole		
<b>Design:</b>	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**

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

**1. GEOLOGIC NAME OF SURFACE FORMATION:**

Naciminto

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:**

	<b>MD</b>	<b>TVD</b>
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:**

	<b>TVD</b>	
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 8-1/2" 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 <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Joint Tension	DF <sub>min</sub> Body Tension
17.5"	0'-300'	300'	13 3/8"	48#	H-40	STC	1.125	1.25	1.60	1.80
12.25"	0' - 4,100'	4,100'	9 5/8"	36#	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 <sup>3</sup> /sk	Volume Ft <sup>3</sup>	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'	400	17	.99	421	Class G + .15% Retarder + .15% fluid loss <b>(pilot hole kickoff plug)</b>
5,300' - 6,500'	415	15.8	1.15	506	Class G + .15% Retarder + .15% fluid loss <b>(pilot hole bottom plug)</b>

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**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.

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**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) H<sub>2</sub>S 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 8-1/2" 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.

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**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.

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

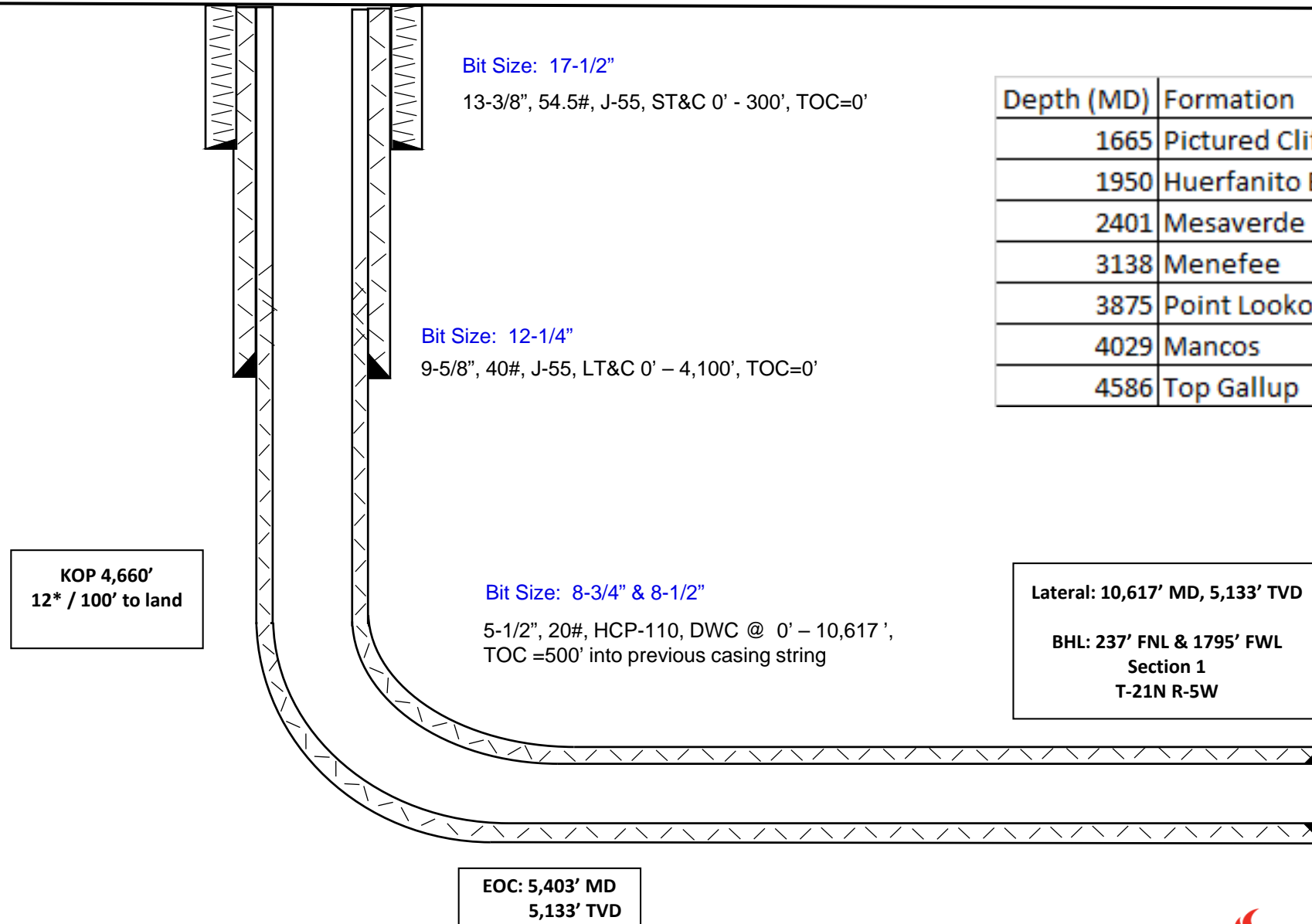
# Bullitt 06 Fed #605H

## Proposed Wellbore

30-043-21354

GL: 7,063'

KB: 7,081'



Depth (MD)	Formation
1665	Pictured Cliffs
1950	Huerfanito Bentonite
2401	Mesaverde
3138	Menefee
3875	Point Lookout
4029	Mancos
4586	Top Gallup

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

COMMENTS

Action 41188

## COMMENTS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 41188
	Action Type: [C-103] NOI Change of Plans (C-103A)

## COMMENTS

Created By	Comment	Comment Date
jagarcia	Accepted for record	8/18/2021

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jagarcia	None	8/18/2021