

OCD Hobbs  
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MAY 07 2018  
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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM110840
6a. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
7. Name of Operator EOG RESOURCES INCORPORATED (7377)		7. If Unit or CA Agreement, Name and No.
8a. Address 1111 Bagby Sky Lobby2 Houston TX 77002		8. Lease Name and Well No. (321381) PHILLY 31 FED COM 703H
8b. Phone No. (include area code) (713)651-7000		9. API Well No. 70-025-44768
9. Location of Well (Report location clearly and in accordance with any State requirements.) At surface LOT 3 / 290 FSL / 2030 FWL / LAT 32.0010632 / LONG -103.5109912 At proposed prod. zone LOT 1 / 230 FNL / 1170 FWL / LAT 32.0210253 / LONG -103.5137672		10. Field and Pool, or Exploratory RED HILLS / WC-025 S263327G 98097
11. Distance in miles and direction from nearest town or post office* 27 miles		11. Sec., T. R. M. or Blk. and Survey or Area SEC 31 / T26S / R34E / NMP
12. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 230 feet	13. No. of acres in lease 1335.19	12. County or Parish LEA
14. Distance from proposed location* to nearest well, drilling, completed, 420 feet applied for, on this lease, ft.	15. Proposed Depth 12696 feet / 20038 feet	13. State NM
16. Elevations (Show whether DF, KDB, RT, GL, etc.) 3364 feet	17. Approximate date work will start* 03/01/2018	17. Spacing Unit dedicated to this well 238.26
18. Attachments		20. BLM/BIA Bond No. on file FED: NM2308
19. Estimated duration 25 days		23. Estimated duration 25 days

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature (Electronic Submission)	Name (Printed/Typed) Stan Wagner / Ph: (432)686-3689	Date 09/28/2017
Title Regulatory Specialist		
Approved by (Signature) (Electronic Submission)	Name (Printed/Typed) Cody Layton / Ph: (575)234-5959	Date 04/18/2018
Title Supervisor Multiple Resources	Office CARLSBAD	

Application approval 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.  
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

GCP Rec 05/07/18

**APPROVED WITH CONDITIONS**  
Approval Date: 04/18/2018

\*(Instructions on page 2)

Kz  
05/10/18  
Requires NSL



APD ID: 10400022628

Submission Date: 09/28/2017

Highlighted data  
reflects the most  
recent changes

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PHILLY 31 FED COM

Well Number: 703H

Show Final Text

Well Type: OIL WELL

Well Work Type: Drill

**Section 1 - General**

APD ID: 10400022628

Tie to previous NOS?

Submission Date: 09/28/2017

BLM Office: CARLSBAD

User: Stan Wagner

Title: Regulatory Specialist

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM110840

Lease Acres: 1335.19

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? YES

Permitting Agent? NO

APD Operator: EOG RESOURCES INCORPORATED

Operator letter of designation:

**Operator Info**

Operator Organization Name: EOG RESOURCES INCORPORATED

Operator Address: 1111 Bagby Sky Lobby2

Zip: 77002

Operator PO Box:

Operator City: Houston

State: TX

Operator Phone: (713)651-7000

Operator Internet Address:

**Section 2 - Well Information**

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: PHILLY 31 FED COM

Well Number: 703H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: RED HILLS

Pool Name: WC-025 S263327G

Is the proposed well in an area containing other mineral resources? NATURAL GAS,OIL



APD ID: 10400022628

Submission Date: 09/28/2017

Highlighted data reflects the most recent changes

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PHILLY 31 FED COM

Well Number: 703H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

**Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	PERMIAN	3364	0	0	ALLUVIUM	NONE	No
2	RUSTLER	2540	824	824	ANHYDRITE	NONE	No
3	TOP OF SALT	1935	1429	1429	SALT	NONE	No
4	BASE OF SALT	-237	3601	3601	SALT	NONE	No
5	LAMAR LS	-2001	5365	5365	LIMESTONE	NONE	No
6	BELL CANYON	-2027	5391	5391	SANDSTONE	NATURAL GAS,OIL	Yes
7	CHERRY CANYON	-3084	6448	6448	SANDSTONE	NATURAL GAS,OIL	Yes
8	BRUSHY CANYON	-4614	7978	7978	SANDSTONE	NATURAL GAS,OIL	Yes
9	BONE SPRING LIME	-6214	9578	9578	LIMESTONE	NONE	No
10	BONE SPRING 1ST	-7134	10498	10498	SANDSTONE	NATURAL GAS,OIL	Yes
11	BONE SPRING 2ND	-7689	11053	11053	SANDSTONE	NATURAL GAS,OIL	Yes
12	BONE SPRING 3RD	-8774	12138	12138	SANDSTONE	NATURAL GAS,OIL	Yes
13	WOLFCAMP	-9172	12536	12536	SHALE	NATURAL GAS,OIL	Yes

**Section 2 - Blowout Prevention**

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PHILLY 31 FED COM

Well Number: 703H

Pressure Rating (PSI): 10M

Rating Depth: 12696

Equipment: The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (5000-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.

Requesting Variance? YES

Variance request: Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line). Variance is requested to wave the centralizer requirements for the 7-5/8" 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. Centralizers will be placed in the 9-7/8" hole interval at least one every third joint. Variance is also requested to wave any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

Testing Procedure: Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 10000/ 250 psig and the annular preventer to 5000/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes. Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 10000/ 250 psig and the annular preventer to 5000/ 250 psig. The intermediate casing will be tested to 2000 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 intermediate casing shoe.

Choke Diagram Attachment:

- Philly\_31\_FC\_703H\_10\_M\_Choke\_Manifold\_20170925134903.pdf
Philly\_31\_FC\_703H\_Co\_Flex\_Hose\_Certification\_20170925134904.PDF
Philly\_31\_FC\_703H\_Co\_Flex\_Hose\_Test\_Chart\_20170925134904.pdf

BOP Diagram Attachment:

- Philly\_31\_FC\_703H\_10\_M\_BOP\_Diagram\_20170925134922.pdf

Section 3 - Casing

Table with 23 columns: Casing ID, String Type, Hole Size, Csg Size, Condition, Standard, Tapered String, Top Set MD, Bottom Set MD, Top Set TVD, Bottom Set TVD, Top Set MSL, Bottom Set MSL, Calculated casing length MD, Grade, Weight, Joint Type, Collapse SF, Burst SF, Joint SF Type, Joint SF, Body SF Type, Body SF. Contains 3 rows of casing data.

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PHILLY 31 FED COM

Well Number: 703H

### Casing Attachments

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**Casing ID:** 1            **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Philly\_31\_FC\_703H\_BLM\_Plan\_20170925140458.pdf

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**Casing ID:** 2            **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

See\_previously\_attached\_Drill\_Plan\_20170925140528.pdf

Philly\_31\_FC\_703H\_7.625in\_29.7\_P110EC\_VAM\_SLIJ\_II\_20170925140527.pdf

Philly\_31\_FC\_703H\_7.625in\_29.70\_P\_110\_FlushMax\_III\_20170925140527.pdf

**Casing Design Assumptions and Worksheet(s):**

See\_previously\_attached\_Drill\_Plan\_20170925140547.pdf

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**Casing ID:** 3            **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Philly\_31\_FC\_703H\_5.500in\_20.00\_VST\_P110EC\_DWC\_C\_IS\_MS\_20170925140609.pdf

See\_previously\_attached\_Drill\_Plan\_20170925140610.pdf

Philly\_31\_FC\_703H\_5.500in\_20.00\_VST\_P110EC\_VAM\_SFC\_20170925140610.pdf

**Casing Design Assumptions and Worksheet(s):**

See\_previously\_attached\_Drill\_Plan\_20170925140624.pdf

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Operator Name: EOG RESOURCES INCORPORATED

Well Name: PHILLY 31 FED COM

Well Number: 703H

**Section 4 - Cement**

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	850	325	1.73	13.5	562	25	Class C	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl2 + 0.25 lb/sx Cello-Flake (TOC@Surface)
SURFACE	Tail		850	850	200	1.34	14.8	268	25	Class C	Class C + 0.6% FL-62 + 0.25 lb/sx Cello-Flake + 0.2% Sodium Metasilicate
INTERMEDIATE	Lead		0	1160 0	2250	1.38	14.8	3105	25	Class C	Class C + 5% Gypsum + 3% CaCl2 pumped via Bradenhead (TOC @ Surface)
INTERMEDIATE	Tail		1160 0	1160 0	550	1.2	14.4	660	25	Class H	50:50 Class H:Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P pumped Conventionally
PRODUCTION	Lead		1110 0	2003 8	850	1.26	14.1	1071	25	Class H	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,100')

**Section 5 - Circulating Medium**

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

**Describe what will be on location to control well or mitigate other conditions:** (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.

**Describe the mud monitoring system 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.

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

### Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
850	1160 0	SALT SATURATED	8.8	10							
1160 0	1269 6	OIL-BASED MUD	10	14							
0	850	WATER-BASED MUD	8.6	8.8							

### Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

Open-hole logs are not planned for this well.

**List of open and cased hole logs run in the well:**

DS

**Coring operation description for the well:**

None

### Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 7592

**Anticipated Surface Pressure:** 7592

**Anticipated Bottom Hole Temperature(F):** 181

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

Philly\_31\_FC\_703H\_H2S\_Plan\_Summary\_20170925140837.pdf

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

## Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Philly\_31\_Fed\_Com\_703H\_Planning\_Report\_20170925140858.pdf

Philly\_31\_Fed\_Com\_703H\_Wall\_Plot\_20170925140859.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Philly\_31\_FC\_703H\_Proposed\_Wellbore\_20170925140935.pdf

Philly\_31\_FC\_703H\_Rig\_Layout\_20170925140935.pdf

Philly\_31\_FC\_703H\_Wellhead\_Cap\_20170925140935.pdf

Philly\_31\_Fed\_Com\_703H\_gas\_capture\_20170928074536.pdf

**Other Variance attachment:**



**Manufacturer: Midwest Hose & Specialty**

**Serial Number: SN#90067**

**Length: 35'**

**Size: OD = 8" ID = 4"**

**Ends: Flanges Size: 4-1/16"**

**WP Rating: 10,000 psi Anchors required by manufacturer: No**

**MIDWEST  
HOSE AND SPECIALTY INC.**

<b>INTERNAL HYDROSTATIC TEST REPORT</b>		
<b>Customer:</b> CACTUS		<b>P.O. Number:</b> RIG #123 Asset # M10761
<b>HOSE SPECIFICATIONS</b>		
<b>Type:</b> CHOKE LINE		<b>Length:</b> 35'
<b>I.D.</b> 4" INCHES		<b>O.D.</b> 8" INCHES
<b>WORKING PRESSURE</b> 10,000 PSI	<b>TEST PRESSURE</b> 15,000 PSI	<b>BURST PRESSURE</b> PSI
<b>COUPLINGS</b>		
<b>Type of End Fitting</b> 4 1/16 10K FLANGE		
<b>Type of Coupling:</b> SWEDGED		<b>MANUFACTURED BY</b> MIDWEST HOSE & SPECIALTY
<b>PROCEDURE</b>		
<i>Hose assembly pressure tested with water at ambient temperature.</i>		
<b>TIME HELD AT TEST PRESSURE</b> 1 MIN.		<b>ACTUAL BURST PRESSURE:</b> 0 PSI
<b>COMMENTS:</b> SN#90067 M10761 Hose is covered with stainless steel armour cover and wrapped with fire resistant vermiculite coated fiberglass insulation rated for 1500 degrees complete with lifting eyes		
<b>Date:</b> 6/6/2011	<b>Tested By:</b> BOBBY FINK	<b>Approved:</b> MENDI JACKSON



Midwest Hose  
& Specialty, Inc.

## Internal Hydrostatic Test Graph

Customer: CACTUS

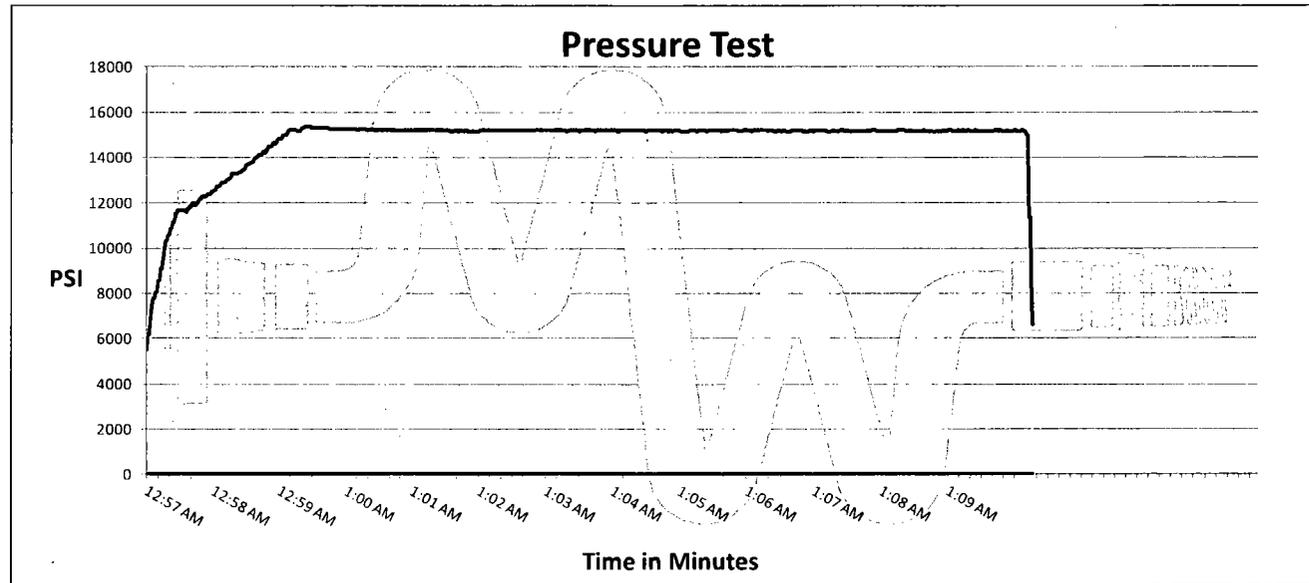
SALES ORDER# 90067

### Hose Specifications

<b>Hose Type</b>	<b>Length</b>
C & K	35'
<b>I.D.</b>	<b>O.D.</b>
4"	8"
<b>Working Pressure</b>	<b>Burst Pressure</b>
10000 PSI	Standard Safety Multiplier Applies

### Verification

<b>Type of Fitting</b>	<b>Coupling Method</b>
4 1/16 10K	Swage
<b>Die Size</b>	<b>Final O.D.</b>
6.62"	6.68"
<b>Hose Serial #</b>	<b>Hose Assembly Serial #</b>
	90067



**Test Pressure**  
15000 PSI

**Time Held at Test Pressure**  
11 1/4 Minutes

**Actual Burst Pressure**

**Peak Pressure**  
15439 PSI

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

**Tested By:** Bobby Fink

**Approved By:** Mendi Jackson

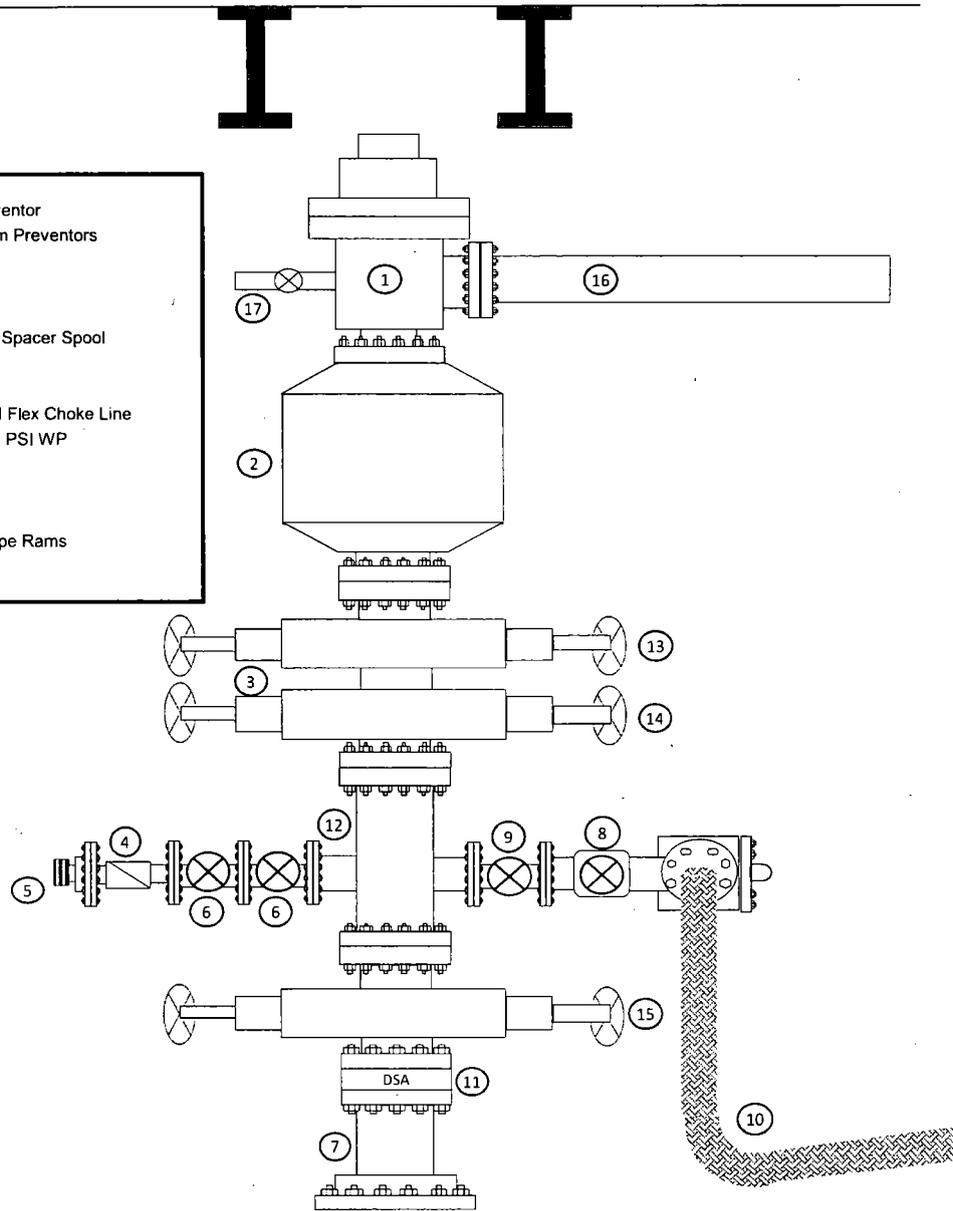
*Bobby Fink*

*Mendi Jackson*

# Exhibit 1 EOG Resources 10M BOPE

Rig Floor

- |  |
|--|
| 1. 13 5/8" Rotating Head                                       |
| 2. Hydril 13 5/8" 10,000 PSI WP GK Annular Preventor           |
| 3. 13 5/8" Cameron Type "U" 10,000 PSI WP Ram Preventors       |
| 4. 2 1/16" - 10,000 PSI WP Check Valve                         |
| 5. 10,000 PSI WP - 1502 Union to kill line                     |
| 6. 2 1/16" - 10,000 PSI WP Manual Valves                       |
| 7. 13 5/8" 3,000 PSI WP x 13 5/8" 5,000 PSI WP Spacer Spool    |
| 8. 4 1/16" 10,000 PSI WP HCR Valve                             |
| 9. 4 1/16" 10,000 PSI WP Manual Valve                          |
| 10. 6" OD x 3" ID 10,000 PSI WP Steel Armoured Flex Choke Line |
| 11. DSA - 13 5/8" 10,000 PSI WP x 13 5/8" 5,000 PSI WP         |
| 12. Mud Cross - 13 5/8" 10,000 PSI WP                          |
| 13. Blind Rams   |
| 14. Pipe Rams  |
| 15. 13 5/8" Cameron Type "U" 10,000 PSI WP Pipe Rams           |
| 16. Flow Line  |
| 17. 2" Fill Line   |



<b>OD</b> 7 5/8 in.	<b>Weight</b> 29.70 lb/ft	<b>Wall Th.</b> 0.375 in.	<b>Grade</b> VM 110 HC	<b>API Drift</b> 6.750 in.	<b>Connection</b> VAM® SLIJ-II
------------------------	------------------------------	------------------------------	---------------------------	-------------------------------	-----------------------------------

PIPE PROPERTIES	
Nominal OD	7.625 in.
Nominal ID	6.875 in.
Nominal Cross Section Area	8.541 sqin.
Grade Type	High Collapse
Min. Yield Strength	110 ksi
Max. Yield Strength	140 ksi
Min. Ultimate Tensile Strength	125 ksi

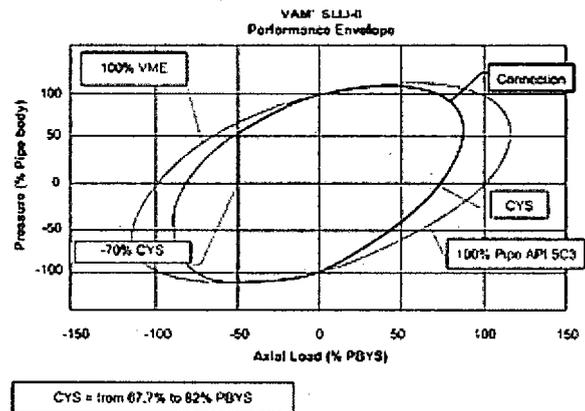
CONNECTION PROPERTIES	
Connection Type	Premium integral semi-flush
Connection OD (nom)	7.711 in.
Connection ID (nom)	6.820 in.
Make-up Loss	4.822 in.
Critical Cross Section	5.912 sqin.
Tension Efficiency	69.2 % of pipe
Compression Efficiency	48.5 % of pipe
Internal Pressure Efficiency	100 % of pipe
External Pressure Efficiency	100 % of pipe

CONNECTION PERFORMANCES	
Tensile Yield Strength	651 klb
Compression Resistance	455 klb
Internal Yield Pressure	9470 psi
Uniaxial Collapse Pressure	7890 psi
Max. Bending Capacity	TDB
Max Bending with Sealability	20 °/100 ft

FIELD TORQUE VALUES	
Min. Make-up torque	11300 ft.lb
Opti. Make-up torque	12600 ft.lb
Max. Make-up torque	13900 ft.lb

VAM® SLIJ-II is a semi-flush integral premium connection for all casing applications. It combines a near flush design with high performances in tension, compression and gas sealability.

VAM® SLIJ-II has been validated according to the most stringent tests protocols, and has an excellent performance history in the world's most prolific HPHT wells.

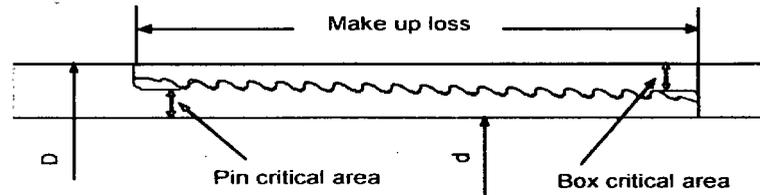


**Do you need help on this product? - Remember no one knows VAM® like VAM**

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mexico@vamfieldservice.com	nigeria@vamfieldservice.com	singapore@vamfieldservice.com
brazil@vamfieldservice.com	angola@vamfieldservice.com	australia@vamfieldservice.com

**Over 140 VAM® Specialists available worldwide 24/7 for Rig Site Assistance**

Other Connection Data Sheets are available at [www.vamservices.com](http://www.vamservices.com)



Pipe Body	Imperial		S.I.	
Grade	P110		P110	
Pipe OD ( D )	7 5/8	in	193.68	mm
Weight	29.7	lb/ft	44.25	kg/m
Actual weight	29.0	lb/ft	43.26	kg/m
Wall thickness ( t )	0.375	in	9.53	mm
Pipe ID ( d )	6.875	in	174.63	mm
Pipe body cross section	8.537	in <sup>2</sup>	5,508	mm <sup>2</sup>
Drift Dia.	6.750	in	171.45	mm

Connection				
Box OD ( W )	7.625	in	193.68	mm
PIN ID	6.875	in	174.63	mm
Pin critical area	4.420	in <sup>2</sup>	2,852	mm <sup>2</sup>
Box critical area	4.424	in <sup>2</sup>	2,854	mm <sup>2</sup>
Joint load efficiency	60	%	60	%
Make up loss	3.040	in	77.22	mm
Thread taper	1/16 ( 3/4 in per ft )			
Number of threads	5 thread per in.			

Connection Performance Properties				
Tensile Yield load	563.4	kips	2,506	kN
M.I.Y.P.	7,574	psi	52.2	MPa
Collapse strength	5,350	psi	36.9	MPa

Note  
M.I.Y.P. = Minimum Internal Yield Pressure of the connection

Torque Recommended				
Min.	8,700	ft-lb	11,700	N-m
Opti.	9,700	ft-lb	13,100	N-m
Max.	10,700	ft-lb	14,500	N-m
Operational Max.	23,600	ft-lb	32,000	N-m

Note : Operational Max. torque can be applied for high torque application

See previously attached Drill Plan

**EOG RESOURCES, INC.**  
**PHILLY 31 FED COM NO. 703H**

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

Permian

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

Rustler	824'
Top of Salt	1,429'
Base of Salt / Top Anhydrite	3,601'
Base Anhydrite	5,365'
Lamar	5,365'
Bell Canyon	5,391'
Cherry Canyon	6,448'
Brushy Canyon	7,978'
Bone Spring Lime	9,578'
1 <sup>st</sup> Bone Spring Sand	10,498'
2 <sup>nd</sup> Bone Spring Shale	10,715'
2 <sup>nd</sup> Bone Spring Sand	11,053'
3 <sup>rd</sup> Bone Spring Carb	11,513'
3 <sup>rd</sup> Bone Spring Sand	12,138'
Wolfcamp	12,536'
TD	12,696'

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

Upper Permian Sands	0- 400'	Fresh Water
Cherry Canyon	6,448'	Oil
Brushy Canyon	7,978'	Oil
1 <sup>st</sup> Bone Spring Sand	10,498'	Oil
2 <sup>nd</sup> Bone Spring Shale	10,715'	Oil
2 <sup>nd</sup> Bone Spring Sand	11,053'	Oil
3 <sup>rd</sup> Bone Spring Carb	11,513'	Oil
3 <sup>rd</sup> Bone Spring Sand	12,138'	Oil
Wolfcamp	12,536'	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 10.75" casing at 850' and circulating cement back to surface.

See previously attached Drill Plan

**EOG RESOURCES, INC.**  
**PHILLY 31 FED COM NO. 703H**

**4. CASING PROGRAM - NEW**

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF <sub>min</sub> Collapse	DF <sub>min</sub> Burst	DF <sub>min</sub> Tension
14.75"	0 – 850'	10.75"	40.5#	J55	STC	1.125	1.25	1.60
9.875"	0 – 1,000'	7.625"	29.7#	HCP-110	LTC	1.125	1.25	1.60
9.875"	1,000' – 3,000'	7.625"	29.7#	P-110EC	SLIJ II	1.125	1.25	1.60
8.75"	3,000' – 11,600'	7.625"	29.7#	HCP-110	FlushMax III	1.125	1.25	1.60
6.75"	0' – 11,100'	5.5"	20#	P-110EC	DWC/C-IS MS	1.125	1.25	1.60
6.75"	11,100' - 20,038'	5.5"	20#	P-110EC	VAM SFC	1.125	1.25	1.60

Variance is requested to waive the centralizer requirements for the 7-5/8" 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.

Variance is also requested to waive any centralizer requirements for the 5-1/2" FJ casing in the 6-3/4" hole size. An expansion additive will be utilized, in the cement slurry, for the entire length of the 6-3/4" hole interval to maximize cement bond and zonal isolation.

**Cementing Program:**

Depth	No. Sacks	Wt. ppg	Yld Ft <sup>3</sup> /ft	Mix Water Gal/sk	Slurry Description
10-3/4" 850'	325	13.5	1.73	9.13	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl <sub>2</sub> + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	200	14.8	1.34	6.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
7-5/8" 11,600'	250	14.8	1.38	6.48	Class C + 5% Gypsum + 3% CaCl <sub>2</sub> pumped via Bradenhead (TOC @ Surface)
	2000	14.8	1.38	6.48	Class C + 5% Gypsum + 3% CaCl <sub>2</sub> pumped via Bradenhead
	550	14.4	1.20	4.81	50:50 Class H: Poz + 0.25% CPT20A + 0.40% CPT49 + 0.20% CPT35 + 0.80% CPT16A + 0.25% CPT503P pumped Conventionally
5-1/2" 20,038'	850	14.1	1.26	5.80	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 11,100')

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

**EOG RESOURCES, INC.  
PHILLY 31 FED COM NO. 703H**

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

Variance is requested to use a co-flex line between the BOP and choke manifold (instead of using a 4" OD steel line).

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a single ram, mud cross and double ram-type (10,000 psi WP) preventer and an annular preventer (10,000-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 10,000/ 250 psig and the annular preventer to 5,000/ 250 psig. The surface casing will be tested to 1500 psi for 30 minutes.

Before drilling out of the intermediate casing, the ram-type BOP and accessory equipment will be tested to 10,000/ 250 psig and the annular preventer to 5,000/ 250 psig. The intermediate casing will be tested to 2000 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 intermediate casing shoe.

**6. 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.

<b>Depth</b>	<b>Type</b>	<b>Weight (ppg)</b>	<b>Viscosity</b>	<b>Water Loss</b>
0 – 850'	Fresh - Gel	8.6-8.8	28-34	N/c
850' – 11,600'	Brine	8.8-10.0	28-34	N/c
11,600' – 20,038' Lateral	Oil Base	10.0-14.0	58-68	3 - 6

The highest mud weight needed to balance formation is expected to be 11.5 ppg. In order to maintain hole stability, mud weights up to 14.0 ppg may be utilized.

**EOG RESOURCES, INC.**  
**PHILLY 31 FED COM NO. 703H**

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.

**7. 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.

**8. LOGGING, TESTING AND CORING PROGRAM:**

Open-hole logs are not planned for this well.

GR-CCL Will be run in cased hole during completions phase of operations.

**9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:**

The estimated bottom-hole temperature (BHT) at TD is 181 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 7592 psig (based on 11.5 ppg MW). No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. Severe loss circulation is expected from 7,300' to Intermediate casing point.

**10. ANTICIPATED STARTING DATE AND 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. 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.**  
**PHILLY 31 FED COM NO. 703H**

**11. WELLHEAD:**

A multi-bowl wellhead system will be utilized.

After running the 10-3/4" surface casing, a 13-5/8" BOP/BOPE system with a minimum working pressure of 10,000 psi will be installed on the wellhead system and will be pressure tested to 250 psi low followed by a 10,000 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 10,000 psi.

The multi-bowl wellhead will be installed by vendor's representative(s). A copy of the installation instructions for the Stream Flo FBD100 Multi-Bowl WH system has been sent to the NM BLM office in Carlsbad, NM.

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

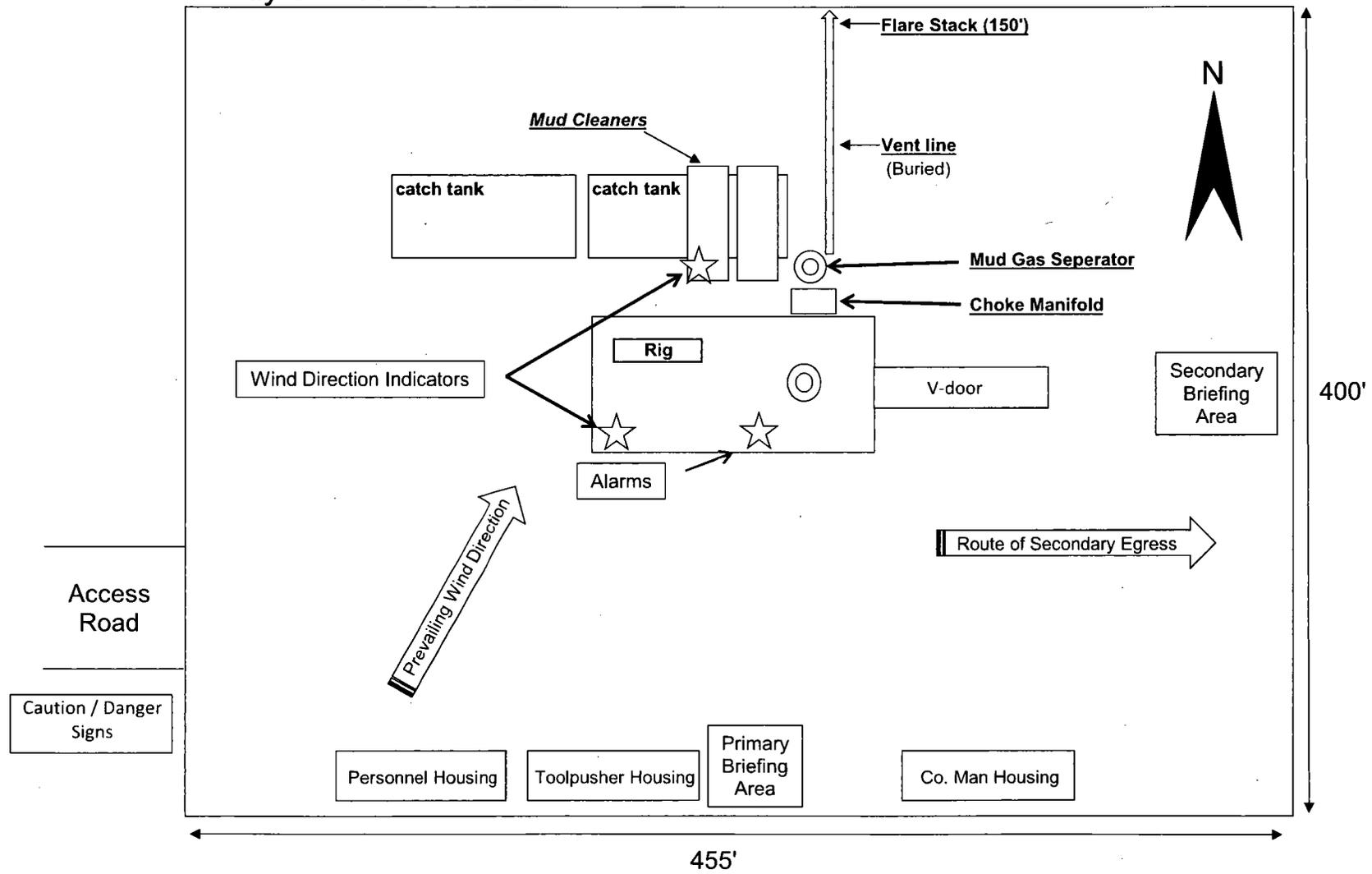
All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

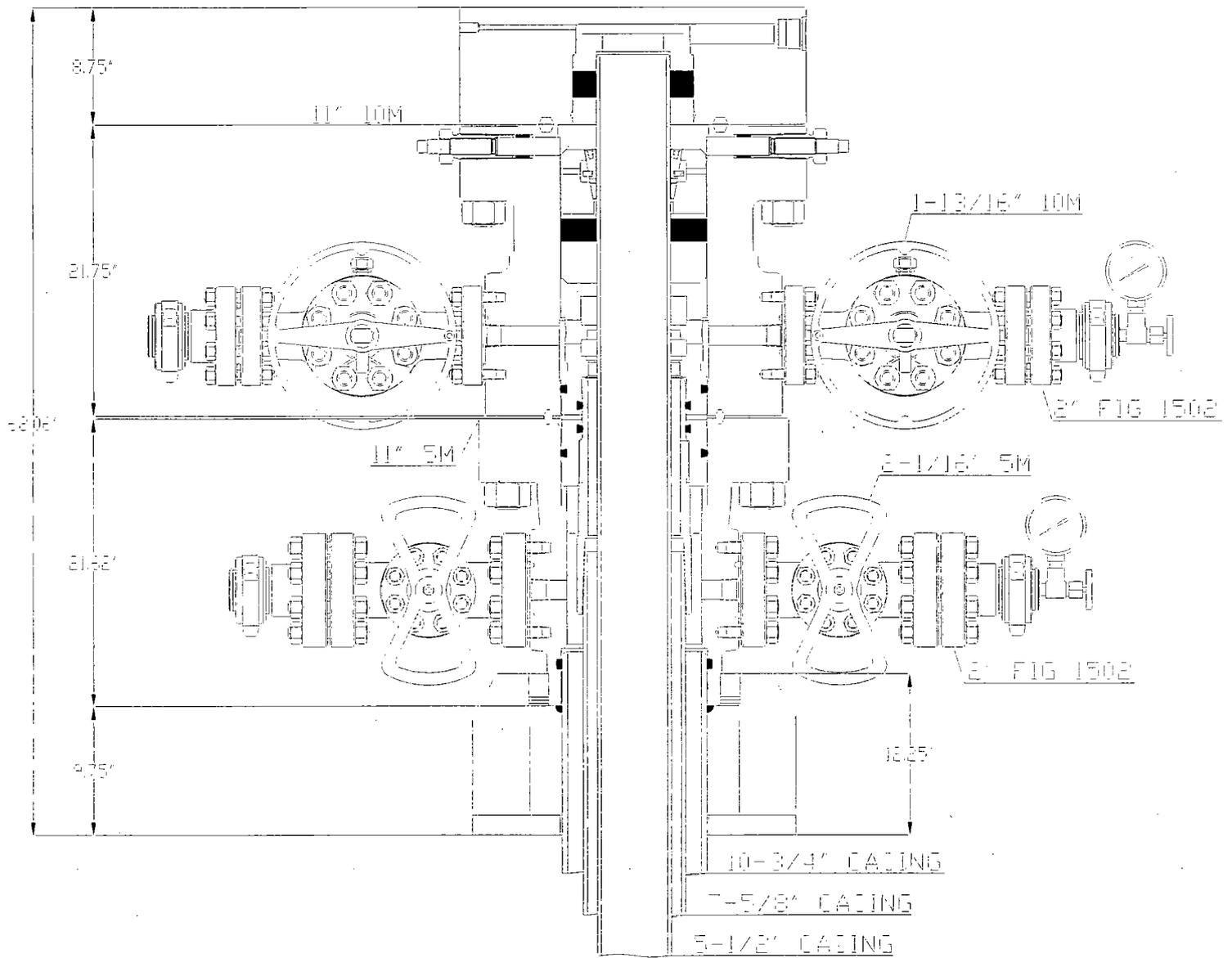
A solid steel body pack-off will be utilized after running and cementing the intermediate casing. After installation the pack-off and lower flange will be pressure tested to 5000 psi.

Both the surface and intermediate casing strings will be tested as per Onshore Order No. 2 to at least 0.22 psi/ft or 1500 psi, whichever is greater.

Exhibit 4  
EOG Resources  
Philly 31 Fed Com #703H

Well Site Diagram





+CONCEPT QUOTE DRAWING  
 +DIMENSIONS ARE APPROXIMATE

EOG RESOURCE

10-3/4" x 7-5/8" x 5-1/2"  
 FBD-100 WELLHEAD SYSTEM  
 QUOTE: HDU - 102101

DWN	BAV	2/28/17
CHK		
APP		
	BY	DATE



Worldwide Expertise - Global Strength

DRAWING NO  
 WH-16618

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

**New road access plan attachment:**

**Access road engineering design?** NO

**Access road engineering design attachment:**

**Access surfacing type:** OTHER

**Access topsoil source:** ONSITE

**Access surfacing type description:** 6" of Compacted Caliche

**Access onsite topsoil source depth:** 6

**Offsite topsoil source description:**

**Onsite topsoil removal process:** An adequate amount of topsoil/root zone will be stripped by dozer from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram / survey plat.

**Access other construction information:**

**Access miscellaneous information:**

**Number of access turnouts:**

**Access turnout map:**

### Drainage Control

**New road drainage crossing:** OTHER

**Drainage Control comments:** No drainage crossings

**Road Drainage Control Structures (DCS) description:** N/A

**Road Drainage Control Structures (DCS) attachment:**

### Access Additional Attachments

**Additional Attachment(s):**

### Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

PHILLY31FEDCOM703H\_radius\_20170927142040.pdf

**Existing Wells description:**

### Section 4 - Location of Existing and/or Proposed Production Facilities

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** Philly 31 Fed Com CTB is located in lot 2 section 31

**Production Facilities map:**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

Philly\_31\_Fed\_infrastructure\_20170927142055.pdf

Philly\_31\_Fed\_CTB\_20170927142054.pdf

## Section 5 - Location and Types of Water Supply

### Water Source Table

**Water source use type:** OTHER

**Water source type:** RECYCLED

**Describe type:**

**Source latitude:**

**Source longitude:**

**Source datum:**

**Water source permit type:** WATER RIGHT

**Source land ownership:** STATE

**Water source transport method:** PIPELINE,TRUCKING

**Source transportation land ownership:** STATE

**Water source volume (barrels):** 720000

**Source volume (acre-feet):** 92.80303

**Source volume (gal):** 30240000

**Water source and transportation map:**

Philly\_31\_Fed\_Com\_water\_and\_caliche\_map\_20170927142253.jpg

**Water source comments:**

**New water well?** NO

### New Water Well Info

**Well latitude:**

**Well Longitude:**

**Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):**

**Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**

**Well casing type:**

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

**New water well casing?**

**Used casing source:**

**Drilling method:**

**Drill material:**

**Grout material:**

**Grout depth:**

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

**State appropriation permit:**

**Additional information attachment:**

### Section 6 - Construction Materials

**Construction Materials description:** Caliche utilized for the drilling pad will be obtained either from an existing approved mineral pit, or by benching into a hill, which will allow the pad to be level with existing caliche from the cut, or extracted by "Flipping" the well location. A mineral material permit will be obtained from BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad.

**Construction Materials source location attachment:**

Philly\_31\_Fed\_Com\_water\_and\_caliche\_map\_20170927142307.jpg

### Section 7 - Methods for Handling Waste

**Waste type:** DRILLING

**Waste content description:** Drill fluids and produced oil and water from the well during drilling and completion operations will be stored safely and disposed of properly in an NMOCD approved disposal facility. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly. Human waste and grey water will be properly contained of and disposed of properly. After drilling and completion operations; trash, chemicals, salts, frac sand, and other waste material will be removed and disposed of properly at a state approved disposal facility.

**Amount of waste:** 0 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** Steel Tanks

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Disposal location description:** Trucked to NMOCD approved disposal facility

### Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**Reserve pit length (ft.)**                      **Reserve pit width (ft.)**

**Reserve pit depth (ft.)**    **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### Cuttings Area

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** YES

**Description of cuttings location** Closed Loop System. Drill cuttings will be disposed of into steel tanks and taken to an NMOCD approved disposal facility.

**Cuttings area length (ft.)**

**Cuttings area width (ft.)**

**Cuttings area depth (ft.)**

**Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

### Section 8 - Ancillary Facilities

**Are you requesting any Ancillary Facilities?:** NO

**Ancillary Facilities attachment:**

**Comments:**

### Section 9 - Well Site Layout

**Well Site Layout Diagram:**

Philly\_31\_FC\_703H\_Rig\_Layout\_20170925141013.pdf

PHILLY31FEDCOM703H\_padsite\_20170927142330.pdf

PHILLY31FEDCOM703H\_wellsite\_20170927142331.pdf

**Comments:** Wellsite, Padsite, Rig Layout

### Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance

**Multiple Well Pad Name:** PHILLY 31 FED COM

**Multiple Well Pad Number:** 703H/704H

**Recontouring attachment:**

PHILLY31FEDCOM703H\_reclamation\_20170927142352.pdf

**Drainage/Erosion control construction:** Proper erosion control methods will be used on the area to control erosion, runoff, and siltation of the surrounding area.

**Drainage/Erosion control reclamation:** The interim reclamation will be monitored periodically to ensure that vegetation has reestablished and that erosion is controlled.

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

**Wellpad long term disturbance (acres):** 2.692837

**Wellpad short term disturbance (acres):** 4.178145

**Access road long term disturbance (acres):** 0.87989

**Access road short term disturbance (acres):** 0.87989

**Pipeline long term disturbance (acres):** 0.87465566

**Pipeline short term disturbance (acres):** 1.4577594

**Other long term disturbance (acres):** 0

**Other short term disturbance (acres):** 0

**Total long term disturbance:** 4.4473825

**Total short term disturbance:** 6.5157943

**Reconstruction method:** In areas planned for interim reclamation, all the surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads. Areas planned for interim reclamation will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Where applicable, the fill material of the well pad will be backfilled into the cut to bring the area back to the original contour. The interim cut and fill slopes prior to re-seeding will not be steeper than a 3:1 ratio, unless the adjacent native topography is steeper. Note: Constructed slopes may be much steeper during drilling, but will be recontoured to the above ratios during interim reclamation.

**Topsoil redistribution:** Topsoil will be evenly respread and aggressively revegetated over the entire disturbed area not needed for all-weather operations including cuts and fills. To seed the area, the proper BLM seed mixture, free of noxious weeds, will be used. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

**Soil treatment:** Re-seed according to BLM standards. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion is controlled.

**Existing Vegetation at the well pad:** Grass, forbs, and small woody vegetation, such as mesquite will be excavated as the topsoil is removed. Large woody vegetation will be stripped and stored separately and respreads evenly on the site following topsoil resspreading. Topsoil depth is defined as the top layer of soil that contains 80% of the roots. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location and along the perimeter of the access road to control run-on and run-off, to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils.

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:** All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:** All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:** All disturbed areas, including roads, pipelines, pads, will be recontoured to the contour existing prior to the initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** NO

**Non native seed description:**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** NO

**Seedling transplant description attachment:**

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Seed harvest description attachment:**

**Seed Management**

**Seed Table**

**Seed type:**

**Seed source:**

**Seed name:**

**Source name:**

**Source address:**

**Source phone:**

**Seed cultivar:**

**Seed use location:**

**PLS pounds per acre:**

**Proposed seeding season:**

**Seed Summary**

**Total pounds/Acre:**

<b>Seed Type</b>	<b>Pounds/Acre</b>
------------------	--------------------

**Seed reclamation attachment:**

**Operator Contact/Responsible Official Contact Info**

**First Name:** Stan

**Last Name:** Wagner

**Phone:** (432)686-3689

**Email:** stan\_wagner@eogresources.com

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

**Weed treatment plan description:** All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds. Weeds will be treated if found.

**Weed treatment plan attachment:**

**Monitoring plan description:** Reclamation will be completed within 6 months of well plugging. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, erosion is controlled, and free of noxious weeds.

**Monitoring plan attachment:**

**Success standards:** N/A

**Pit closure description:** NA

**Pit closure attachment:**

### Section 11 - Surface Ownership

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

### Section 12 - Other Information

**Right of Way needed?** NO

**Use APD as ROW?**

**ROW Type(s):**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

**ROW Applications**

**SUPO Additional Information:** OnSite meeting conducted 01/12/17

**Use a previously conducted onsite?** NO

**Previous Onsite information:**

**Other SUPO Attachment**

Philly\_31\_Fed\_CTB\_20170927142545.pdf

PHILLY31FEDCOM703H\_location\_20170927142546.pdf

SUPO\_Philly\_31\_Fed\_Com\_703H\_20170927142547.pdf

### Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Unlined pit bond number:

Unlined pit bond amount:

Additional bond information attachment:

### Section 4 - Injection

Would you like to utilize Injection PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Injection PWD discharge volume (bbl/day):

Injection well mineral owner:

**Injection well type:**

**Injection well number:**

**Assigned injection well API number?**

**Injection well new surface disturbance (acres):**

**Minerals protection information:**

**Mineral protection attachment:**

**Underground Injection Control (UIC) Permit?**

**UIC Permit attachment:**

**Injection well name:**

**Injection well API number:**

### **Section 5 - Surface Discharge**

**Would you like to utilize Surface Discharge PWD options? NO**

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Surface discharge PWD discharge volume (bbl/day):**

**Surface Discharge NPDES Permit?**

**Surface Discharge NPDES Permit attachment:**

**Surface Discharge site facilities information:**

**Surface discharge site facilities map:**

### **Section 6 - Other**

**Would you like to utilize Other PWD options? NO**

**Produced Water Disposal (PWD) Location:**

**PWD surface owner:**

**PWD disturbance (acres):**

**Other PWD discharge volume (bbl/day):**

**Other PWD type description:**

**Other PWD type attachment:**

**Have other regulatory requirements been met?**

**Other regulatory requirements attachment:**



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Bond Info Data Report

04/19/2018

### Bond Information

Federal/Indian APD: FED

BLM Bond number: NM2308

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment:

Operator Name: EOG RESOURCES INCORPORATED

Well Name: PHILLY 31 FED COM

Well Number: 703H

	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD
EXIT Leg #1	330	FNL	117 0	FWL	26S	34E	30	Lot 1	32.02075	- 103.5137 672	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 122626	- 933 2	199 38	126 96
BHL Leg #1	230	FNL	117 0	FWL	26S	34E	30	Lot 1	32.02102 53	- 103.5137 672	LEA	NEW MEXI CO	NEW MEXI CO	F	NMNM 122626	- 933 2	200 38	126 96



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Operator Certification Data Report

04/19/2018

### Operator Certification

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** Stan Wagner

**Signed on:** 09/28/2017

**Title:** Regulatory Specialsit

**Street Address:** 5509 Champions Drive

**City:** Midland

**State:** TX

**Zip:** 79702

**Phone:** (432)686-3689

**Email address:** Stan\_Wagner@eogresources.com

### Field Representative

**Representative Name:** James Barwis

**Street Address:** 5509 Champions Drive

**City:** Midland

**State:** TX

**Zip:** 79706

**Phone:** (432)425-1204

**Email address:** james\_barwis@eogresources.com



**APD ID:** 10400022628

**Submission Date:** 09/28/2017

Highlighted data reflects the most recent changes

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** PHILLY 31 FED COM

**Well Number:** 703H

[Show Final Text](#)

**Well Type:** OIL WELL

**Well Work Type:** Drill

### Section 1 - Existing Roads

**Will existing roads be used?** YES

**Existing Road Map:**

PHILLY31FEDCOM703H\_vicinity\_20170927141954.pdf

**Existing Road Purpose:** ACCESS,FLUID TRANSPORT

**Row(s) Exist?** NO

#### ROW ID(s)

**ID:**

**Do the existing roads need to be improved?** NO

**Existing Road Improvement Description:**

**Existing Road Improvement Attachment:**

### Section 2 - New or Reconstructed Access Roads

**Will new roads be needed?** YES

**New Road Map:**

Philly\_31\_Fed\_infrastructure\_20170927142021.pdf

PHILLY31FEDCOM703H\_padsite\_20170927142021.pdf

PHILLY31FEDCOM703H\_wellsite\_20170927142022.pdf

**New road type:** RESOURCE

**Length:** 1597

Feet

**Width (ft.):** 24

**Max slope (%):** 2

**Max grade (%):** 20

**Army Corp of Engineers (ACOE) permit required?** NO

**ACOE Permit Number(s):**

**New road travel width:** 24

**New road access erosion control:** Newly constructed or reconstructed roads will be constructed as outlined in the BLM "Gold Book" and to meet the standards of the anticipated traffic flow and all anticipated weather requirements as needed. Construction will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-constructed and safe road. We plan to grade and water twice a year.

**New road access plan or profile prepared?** NO



**Section 1 - General**

Would you like to address long-term produced water disposal? NO

**Section 2 - Lined Pits**

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment: