

Carlsbad Field Office  
OCD Hobbs

FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
MAY 07 2018  
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APPLICATION FOR PERMIT TO DRILL OR REENTER

|  |   |   |
|--|---|---|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |   | 5. Lease Serial No.<br>44028881   |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone   |   | 6. If Indian, Allottee or Tribe Name  |
| 2. Name of Operator<br>EOG RESOURCES INCORPORATED 7377   |   | 7. If Unit or CA Agreement, Name and No.  |
| 3a. Address<br>1111 Bagby Sky Lobby2 Houston TX 77002  |   | 8. Lease Name and Well No. (4050)<br>DIAMOND 31 FED COM 703H                      |
| 3b. Phone No. (include area code)<br>(713)651-7000   |   | 9. API Well No.<br>30-025-44759   |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)*<br>At surface LOT 4 / 618 FSL / 695 FWL / LAT 32.1684966 / LONG -103.5152581<br>At proposed prod. zone LOT 3 / 2410 FSL / 984 FWL / LAT 32.1879224 / LONG -103.5143235 |   | 10. Field and Pool, or Exploratory<br>RED HILLS / WC-025 S243336I UPPER 98092     |
| 11. Sec. T. R. M. or Blk. and Survey or Area<br>SEC 31 / T24S / R34E / NMP   |   | 12. County or Parish<br>LEA   |
| 13. State<br>NM  |   | 14. Distance in miles and direction from nearest town or post office*<br>25 miles |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)<br>330 feet  | 16. No. of acres in lease<br>999.84                 | 17. Spacing Unit dedicated to this well<br>239.58                                 |
| 18. Distance from proposed location* to nearest well, drilling, completed, 330 feet applied for, on this lease, ft.  | 19. Proposed Depth<br>12447 feet / 19901 feet       | 20. BLM/BIA Bond No. on file<br>FED: NM2308                                       |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>3467 feet   | 22. Approximate date work will start*<br>01/01/2018 | 23. Estimated duration<br>25 days   |

24. Attachments

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

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

|  |   |                    |
|--|---|--------------------|
| 25. Signature<br>(Electronic Submission)                     | Name (Printed/Typed)<br>Stan Wagner / Ph: (432)686-3689 | Date<br>09/05/2017 |
| Title<br>Regulatory Specialist                               |   |                    |
| Approved by (Signature)<br>(Electronic Submission)           | Name (Printed/Typed)<br>Cody Layton / Ph: (575)234-5959 | Date<br>04/23/2018 |
| Title<br>Supervisor Multiple Resources<br>Office<br>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)

Rec. GCP 05/07/18

\*(Instructions on page 2)  
K2  
05/10/18

APPROVED WITH CONDITIONS

Approval Date: 04/23/2018

## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications.

Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

**Additional Operator Remarks**

**Location of Well**

- 1. SHL: LOT 4 / 618 FSL / 695 FWL / TWSP: 24S / RANGE: 34E / SECTION: 31 / LAT: 32.1684966 / LONG: -103.5152581 ( TVD: 0-feet, MD: 0 feet )
- PPP: LOT 4 / 330 FSL / 990 FWL / TWSP: 24S / RANGE: 34E / SECTION: 31 / LAT: 32.1677034 / LONG: -103.5143051 ( TVD: 12403 feet, MD: 12539 feet )
- BHL: LOT 3 / 2410 FSL / 984 FWL / TWSP: 24S / RANGE: 34E / SECTION: 30 / LAT: 32.1879224 / LONG: -103.5143235 ( TVD: -12447 feet, MD: 19901 feet )

**BLM Point of Contact**

Name: Priscilla Perez  
Title: Legal Instruments Examiner  
Phone: 5752345934  
Email: pperez@blm.gov

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## Review and Appeal Rights

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

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|  |                                    |  |
|--|------------------------------------|--|
| <b>APD ID:</b> 10400020655                       | <b>Submission Date:</b> 09/05/2017 | Highlighted data reflects the most recent changes<br><a href="#">Show Final Text</a> |
| <b>Operator Name:</b> EOG RESOURCES INCORPORATED |                                    |  |
| <b>Well Name:</b> DIAMOND 31 FED COM             | <b>Well Number:</b> 703H           |  |
| <b>Well Type:</b> OIL WELL                       | <b>Well Work Type:</b> Drill       |  |

### Section 1 - General

|   |  |                                     |
|---|--|-------------------------------------|
| <b>APD ID:</b> 10400020655                | <b>Tie to previous NOS?</b>  | <b>Submission Date:</b> 09/05/2017  |
| <b>BLM Office:</b> CARLSBAD               | <b>User:</b> Stan Wagner   | <b>Title:</b> Regulatory Specialsit |
| <b>Federal/Indian APD:</b> FED            | <b>Is the first lease penetrated for production Federal or Indian?</b> FED |                                     |
| <b>Lease number:</b> NMNM028881           | <b>Lease Acres:</b> 999.84   |                                     |
| <b>Surface access agreement in place?</b> | <b>Allotted?</b>   | <b>Reservation:</b>                 |
| <b>Agreement in place?</b> NO             | <b>Federal or Indian agreement:</b>  |                                     |
| <b>Agreement number:</b>                  |  |                                     |
| <b>Agreement name:</b>                    |  |                                     |
| <b>Keep application confidential?</b> YES |  |                                     |
| <b>Permitting Agent?</b> NO               | <b>APD Operator:</b> EOG RESOURCES INCORPORATED                            |                                     |
| <b>Operator letter of designation:</b>    |  |                                     |

### Operator Info

**Operator Organization Name:** EOG RESOURCES INCORPORATED

**Operator Address:** 1111 Bagby Sky Lobby2

**Operator PO Box:**

**Operator City:** Houston      **State:** TX

**Operator Phone:** (713)651-7000

**Operator Internet Address:**

**Zip:** 77002

### Section 2 - Well Information

|  |                                     |   |
|--|-------------------------------------|---|
| <b>Well in Master Development Plan?</b> NO   | <b>Mater Development Plan name:</b> |   |
| <b>Well in Master SUPO?</b> NO   | <b>Master SUPO name:</b>            |   |
| <b>Well in Master Drilling Plan?</b> NO  | <b>Master Drilling Plan name:</b>   |   |
| <b>Well Name:</b> DIAMOND 31 FED COM   | <b>Well Number:</b> 703H            | <b>Well API Number:</b>                             |
| <b>Field/Pool or Exploratory?</b> Field and Pool   | <b>Field Name:</b> RED HILLS        | <b>Pool Name:</b> WC-025 S243336I<br>UPPER WOLFCAMP |
| <b>Is the proposed well in an area containing other mineral resources?</b> USEABLE WATER |                                     |   |

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** DIAMOND 31 FED COM

**Well Number:** 703H

**Describe other minerals:**

**Is the proposed well in a Helium production area?** N    **Use Existing Well Pad?** NO    **New surface disturbance?**

**Type of Well Pad:** MULTIPLE WELL

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

**Number:** 701H/702H/703H

**Well Class:** HORIZONTAL

**Number of Legs:** 1

**Well Work Type:** Drill

**Well Type:** OIL WELL

**Describe Well Type:**

**Well sub-Type:** INFILL

**Describe sub-type:**

**Distance to town:** 25 Miles

**Distance to nearest well:** 330 FT

**Distance to lease line:** 330 FT

**Reservoir well spacing assigned acres Measurement:** 239.58 Acres

**Well plat:** Diamond\_31\_Fed\_Com\_703H\_signed\_C\_102\_20170905151230.pdf

**Well work start Date:** 01/01/2018

**Duration:** 25 DAYS

### Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

**Datum:** NAD83

**Vertical Datum:** NAVD88

**Survey number:**

|            | 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       |
|------------|---------|--------------|---------|--------------|------|-------|---------|-------------------|----------------|----------------------|--------|-------------------|-------------------|------------|----------------|---------------|-----------|-----------|
| SHL Leg #1 | 618     | FSL          | 695     | FWL          | 24S  | 34E   | 31      | Lot 4             | 32.16849<br>66 | -<br>103.5152<br>581 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>028881 | 346<br>7      | 0         | 0         |
| KOP Leg #1 | 55      | FSL          | 975     | FWL          | 24S  | 34E   | 31      | Lot 4             | 32.16694<br>3  | -<br>103.5143<br>651 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>028881 | -<br>846<br>7 | 119<br>60 | 119<br>34 |
| PPP Leg #1 | 330     | FSL          | 990     | FWL          | 24S  | 34E   | 31      | Lot 4             | 32.16770<br>34 | -<br>103.5143<br>051 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>028881 | -<br>893<br>6 | 125<br>39 | 124<br>03 |



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

# Drilling Plan Data Report

04/24/2018

APD ID: 10400020655

Submission Date: 09/05/2017

Highlighted data  
reflects the most  
recent changes

Operator Name: EOG RESOURCES INCORPORATED

Well Name: DIAMOND 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                | 3467      | 0                   | 0              | ALLUVIUM    | NONE              | No                  |
| 2            | RUSTLER                | 2269      | 1198                | 1198           | ANHYDRITE   | NONE              | No                  |
| 3            | TOP SALT               | 1744      | 1723                | 1723           | SALT        | NONE              | No                  |
| 4            | BASE OF SALT           | -1512     | 4979                | 4979           | SALT        | NONE              | No                  |
| 5            | LAMAR                  | -1774     | 5241                | 5241           | LIMESTONE   | NONE              | No                  |
| 6            | BELL CANYON            | -1791     | 5258                | 5258           | SANDSTONE   | NATURAL GAS,OIL   | No                  |
| 7            | CHERRY CANYON          | -2826     | 6293                | 6293           | SANDSTONE   | NATURAL GAS,OIL   | No                  |
| 8            | BRUSHY CANYON          | -4348     | 7815                | 7815           | SANDSTONE   | NATURAL GAS,OIL   | No                  |
| 9            | BONE SPRING LIME       | -5811     | 9278                | 9278           | LIMESTONE   | NONE              | No                  |
| 10           | FIRST BONE SPRING SAND | -6786     | 10253               | 10253          | SANDSTONE   | NATURAL GAS,OIL   | No                  |
| 11           | BONE SPRING 2ND        | -7384     | 10851               | 10851          | SANDSTONE   | NATURAL GAS,OIL   | No                  |
| 12           | BONE SPRING 3RD        | -8429     | 11896               | 11896          | SANDSTONE   | NATURAL GAS,OIL   | No                  |
| 13           | WOLFCAMP               | -8847     | 12314               | 12314          | SHALE       | NATURAL GAS,OIL   | Yes                 |

## Section 2 - Blowout Prevention

Operator Name: EOG RESOURCES INCORPORATED

Well Name: DIAMOND 31 FED COM

Well Number: 703H

Pressure Rating (PSI): 10M

Rating Depth: 12447

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 (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 and 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 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.

Testing Procedure: Before drilling out of the surface casing, the ram-type BOP and accessory equipment will be tested to 5000/ 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 5000/ 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:

Diamond\_31\_FC\_703H\_10\_M\_Choke\_Manifold\_20170905123651.pdf

Diamond\_31\_FC\_703H\_Co\_Flex\_Hose\_Certification\_20170905123652.PDF

Diamond\_31\_FC\_703H\_Co\_Flex\_Hose\_Test\_Chart\_20170905123653.pdf

BOP Diagram Attachment:

Diamond\_31\_FC\_703H\_10\_M\_BOP\_Diagram\_20170905123705.pdf

### Section 3 - Casing

| 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 |
|-----------|--------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|---------|--------|--------------------|-------------|----------|---------------|----------|--------------|---------|
| 1         | INTERMEDIATE | 9.875     | 7.625    | NEW       | API      | Y              | 0          | 1000          | 0           | 1000           | 3467        | 2467           | 1000                        | HCP-110 | 29.7   | LTC                | 1.125       | 1.25     | BUOY          | 1.6      | BUOY         | 1.6     |
| 2         | SURFACE      | 14.75     | 10.75    | NEW       | API      | N              | 0          | 1225          | 0           | 1225           | 3467        | 2242           | 1225                        | J-55    | 40.5   | STC                | 1.125       | 1.25     | BUOY          | 1.6      | BUOY         | 1.6     |
| 3         | PRODUCTION   | 6.75      | 5.5      | NEW       | API      | Y              | 0          | 10900         | 0           | 10900          | 3467        | -7433          | 10900                       | OTHER   | 20     | OTHER - DW/C-C-IMS | 1.125       | 1.25     | BUOY          | 1.6      | BUOY         | 1.6     |

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** DIAMOND 31 FED COM

**Well Number:** 703H

### Casing Attachments

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**Casing ID:** 1      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

See\_previously\_attached\_Drill\_Plan\_20170905124014.pdf

Diamond\_31\_FC\_703H\_7.625in\_29.7\_P110EC\_VAM\_SLIJ\_II\_20170905124013.pdf

Diamond\_31\_FC\_703H\_7.625in\_29.70\_P\_110\_FlushMax\_III\_20170905124013.pdf

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

See\_previously\_attached\_Drill\_Plan\_20170905124146.pdf

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**Casing ID:** 2      **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

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

Diamond\_31\_FC\_703H\_BLM\_Plan\_20170905124130.pdf

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

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

Diamond\_31\_FC\_703H\_5.500in\_20.00\_VST\_P110EC\_DWC\_C\_IS\_MS\_20170905124110.pdf

Diamond\_31\_FC\_703H\_5.500in\_20.00\_VST\_P110EC\_VAM\_SFC\_20170905124111.pdf

See\_previously\_attached\_Drill\_Plan\_20170905124111.pdf

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

See\_previously\_attached\_Drill\_Plan\_20170905124159.pdf

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Operator Name: EOG RESOURCES INCORPORATED

Well Name: DIAMOND 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         | 1225      | 325          | 1.73  | 13.5    | 562   | 25      | Class C     | Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl2 + 0.25 lb/sk Cello-Flake (TOC @ Surface)                       |
| SURFACE      | Tail      |                  | 1225      | 1225      | 200          | 1.34  | 14.8    | 268   | 25      | Class C     | Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate  |
| INTERMEDIATE | Lead      |                  | 0         | 1140<br>0 | 2250         | 1.38  | 14.8    | 3105  | 25      | Class C     | Class C + 5% Gypsum + 3% CaCl2 pumped via bradenhead (TOC@surface)  |
| INTERMEDIATE | Tail      |                  | 1140<br>0 | 1140<br>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      |                  | 1090<br>0 | 1990<br>1 | 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 @ 10,900')                                    |

**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:** DIAMOND 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 |
|-----------|--------------|--------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 1225      | 1140<br>0    | SALT<br>SATURATED  | 8.8                  | 10                   |                     |                             |    |                |                |                 |                            |
| 1140<br>0 | 1244<br>7    | OIL-BASED<br>MUD   | 10                   | 14                   |                     |                             |    |                |                |                 |                            |
| 0         | 1225         | WATER-BASED<br>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:** 7443

**Anticipated Surface Pressure:** 4704.66

**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:**

Diamond\_31\_FC\_703H\_H2S\_Plan\_Summary\_20170905124513.pdf

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** DIAMOND 31 FED COM

**Well Number:** 703H

## **Section 8 - Other Information**

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

Diamond\_31\_Fed\_Com\_703H\_Planning\_Report\_20170905124532.pdf

Diamond\_31\_Fed\_Com\_703H\_Wall\_Plot\_20170905124532.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Diamond\_31\_FC\_703H\_Proposed\_Wellbore\_20170905124554.pdf

Diamond\_31\_FC\_703H\_Rig\_Layout\_20170905124554.pdf

Diamond\_31\_FC\_703H\_Wellhead\_Cap\_20170905124554.pdf

Diamond\_31\_Fed\_Com\_703H\_gas\_capture\_20170905144128.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**

**M I D W E S T**  
**H O S E   A N D   S P E C I A L T Y   I N C .**

| <b>INTERNAL HYDROSTATIC TEST REPORT</b>   |  |  |
|---|--|--|
| <b>Customer:</b><br>CACTUS  |  | <b>P.O. Number:</b><br>RIG #123<br>Asset # M10761                    |
| <b>HOSE SPECIFICATIONS</b>  |  |  |
| <b>Type:</b> <b>CHOKER LINE</b>   |  | <b>Length:</b> <b>35'</b>  |
| <b>I.D.</b> <b>4"    INCHES</b>   | <b>O.D.</b> <b>8"    INCHES</b>                          |  |
| <b>WORKING PRESSURE</b><br><br><b>10,000            PSI</b>   | <b>TEST PRESSURE</b><br><br><b>15,000            PSI</b> | <b>BURST PRESSURE</b><br><br><b>                         PSI</b>     |
| <b>COUPLINGS</b>  |  |  |
| <b>Type of End Fitting</b><br><b>4 1/16 10K FLANGE</b>  |  |  |
| <b>Type of Coupling:</b><br><b>SWEDGED</b>  |  | <b>MANUFACTURED BY</b><br><b>MIDWEST HOSE &amp; SPECIALTY</b>        |
| <b>PROCEDURE</b>  |  |  |
| <i>Hose assembly pressure tested with water at ambient temperature.</i>   |  |  |
| <b>TIME HELD AT TEST PRESSURE</b><br><br><b>1                    MIN.</b>   |  | <b>ACTUAL BURST PRESSURE:</b><br><br><b>0                    PSI</b> |
| <b>COMMENTS:</b><br><b>SN#90067 M10761</b><br><b>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> |  |  |
| <b>Date:</b><br><b>6/6/2011</b>   | <b>Tested By:</b><br><b>BOBBY FINK</b>                   | <b>Approved:</b><br><b>MENDI JACKSON</b>                             |



Midwest Hose  
& Specialty, Inc.

## Internal Hydrostatic Test Graph

Customer: CACTUS

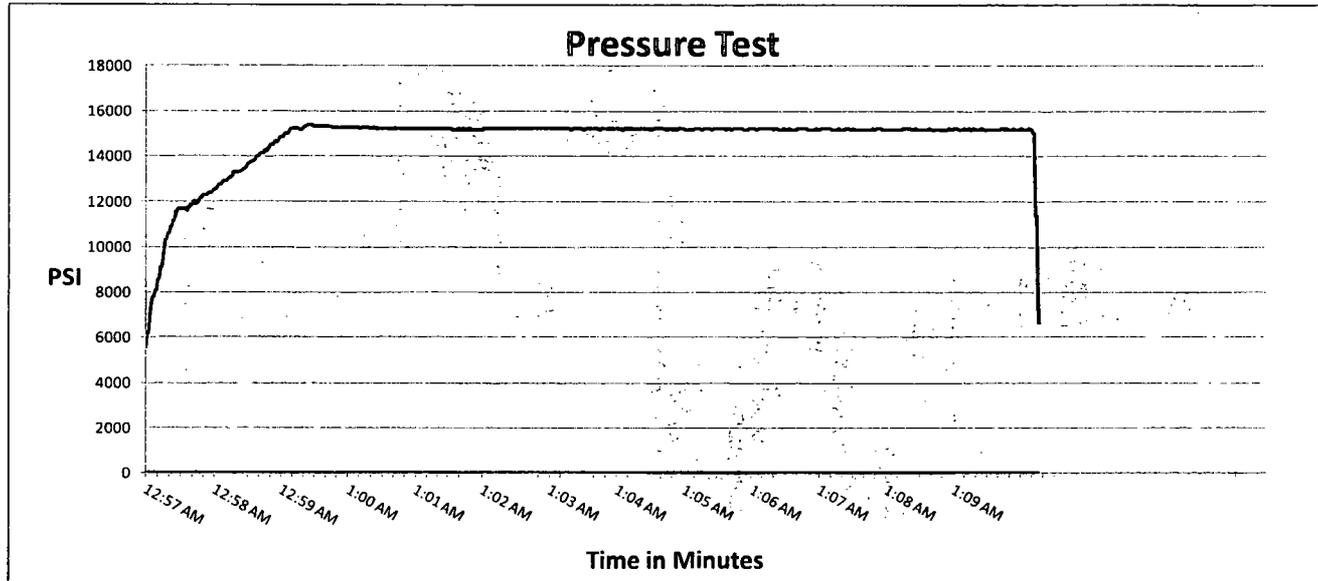
SALES ORDER# 90067

### Hose Specifications

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

### Verification

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

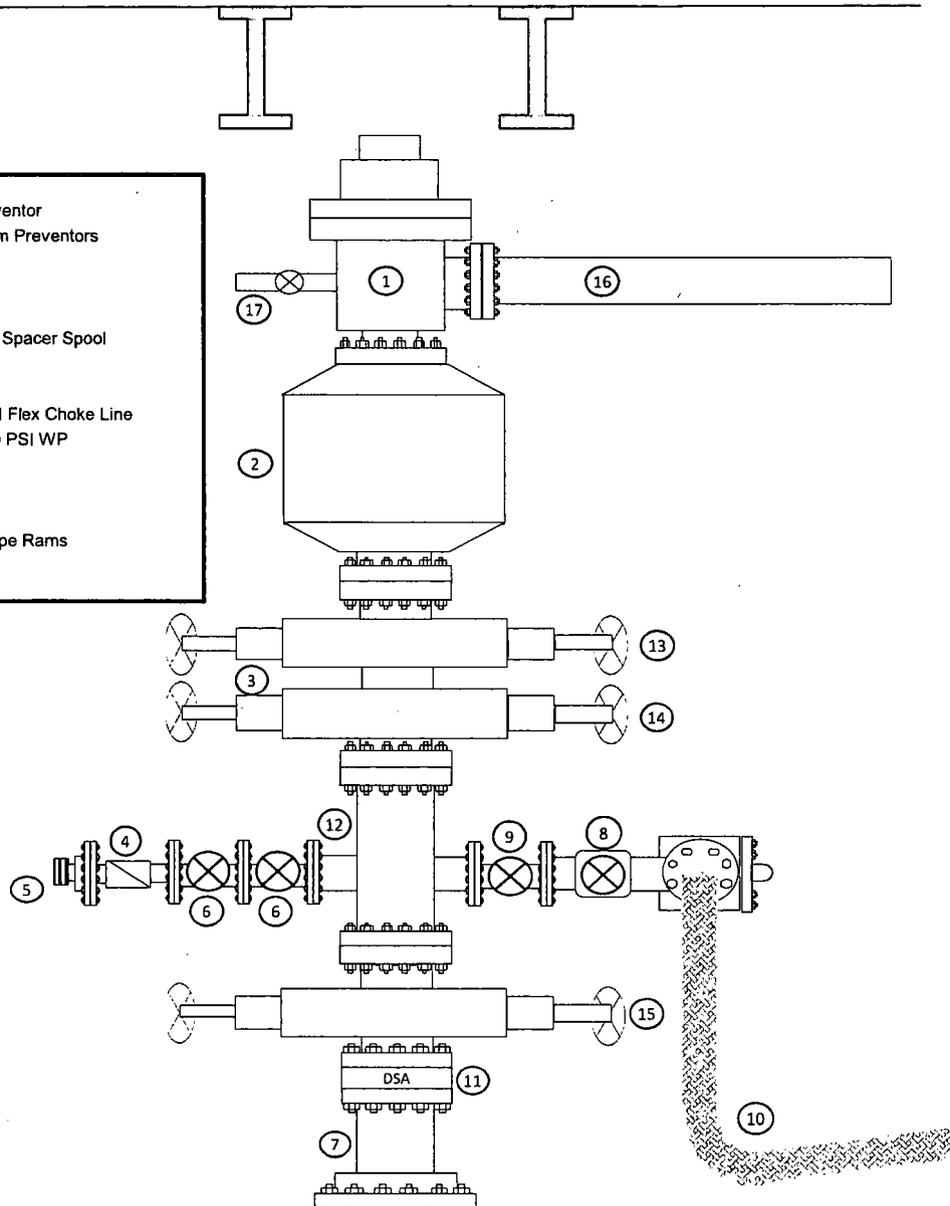
# Exhibit 1

## 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><br>7 5/8 in. | <b>Weight</b><br>29.70 lb/ft | <b>Wall Th.</b><br>0.375 in. | <b>Grade</b><br>VM 110 HC | <b>API Drift</b><br>6.750 in. | <b>Connection</b><br>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       |

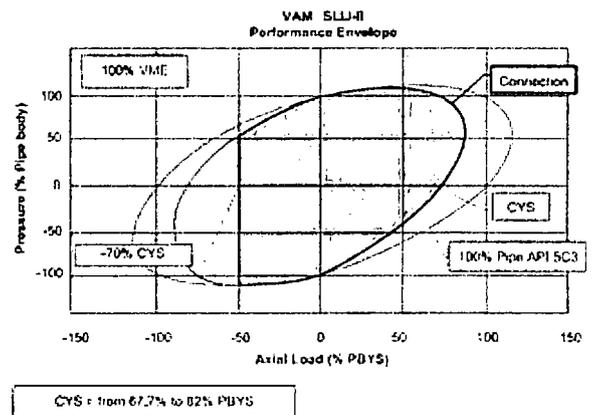
| CONNECTION PROPERTIES        |                             |
|------------------------------|-----------------------------|
| Connection Type              | Premium integral semi-flush |
| Connection OD (nom)          | 7.711 in.                   |
| Connection ID (nom)          | 6.820 in.                   |
| 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.

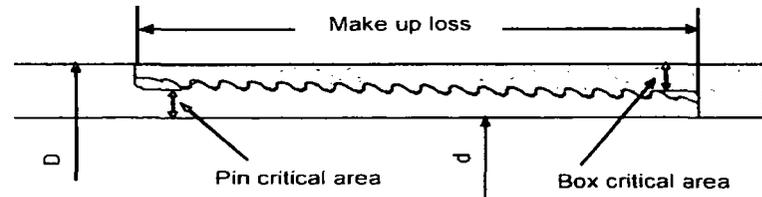


Do you need help on this product? - Remember no one knows VAM® like VAM

|  |  |  |
|--|--|--|
| <a href="mailto:canada@vamfieldservice.com">canada@vamfieldservice.com</a> | <a href="mailto:uk@vamfieldservice.com">uk@vamfieldservice.com</a>           | <a href="mailto:china@vamfieldservice.com">china@vamfieldservice.com</a>         |
| <a href="mailto:usa@vamfieldservice.com">usa@vamfieldservice.com</a>       | <a href="mailto:duba@vamfieldservice.com">duba@vamfieldservice.com</a>       | <a href="mailto:baku@vamfieldservice.com">baku@vamfieldservice.com</a>           |
| <a href="mailto:mexico@vamfieldservice.com">mexico@vamfieldservice.com</a> | <a href="mailto:nigeria@vamfieldservice.com">nigeria@vamfieldservice.com</a> | <a href="mailto:singapore@vamfieldservice.com">singapore@vamfieldservice.com</a> |
| <a href="mailto:brazil@vamfieldservice.com">brazil@vamfieldservice.com</a> | <a href="mailto:angola@vamfieldservice.com">angola@vamfieldservice.com</a>   | <a href="mailto:australia@vamfieldservice.com">australia@vamfieldservice.com</a> |

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

See previously attached Drill Plan

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

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

Permian

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

|                                   |         |
|-----------------------------------|---------|
| Rustler                           | 1,198'  |
| Top of Salt                       | 1,723'  |
| Base of Salt / Top Anhydrite      | 4,979'  |
| Base Anhydrite                    | 5,241'  |
| Lamar                             | 5,241'  |
| Bell Canyon                       | 5,258'  |
| Cherry Canyon                     | 6,293'  |
| Brushy Canyon                     | 7,815'  |
| Bone Spring Lime                  | 9,278'  |
| 1 <sup>st</sup> Bone Spring Sand  | 10,253' |
| 2 <sup>nd</sup> Bone Spring Shale | 10,513' |
| 2 <sup>nd</sup> Bone Spring Sand  | 10,851' |
| 3 <sup>rd</sup> Bone Spring Carb  | 11,346' |
| 3 <sup>rd</sup> Bone Spring Sand  | 11,896' |
| Wolfcamp                          | 12,314' |
| TD                                | 12,447' |

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

|                                   |         |             |
|-----------------------------------|---------|-------------|
| Upper Permian Sands               | 0- 400' | Fresh Water |
| Cherry Canyon                     | 6,293'  | Oil         |
| Brushy Canyon                     | 7,815'  | Oil         |
| 1 <sup>st</sup> Bone Spring Sand  | 10,253' | Oil         |
| 2 <sup>nd</sup> Bone Spring Shale | 10,513' | Oil         |
| 2 <sup>nd</sup> Bone Spring Sand  | 10,851' | Oil         |
| 3 <sup>rd</sup> Bone Spring Carb  | 11,346' | Oil         |
| 3 <sup>rd</sup> Bone Spring Sand  | 11,896' | Oil         |
| Wolfcamp                          | 12,314' | 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 1,225' and circulating cement back to surface.

**EOG RESOURCES, INC.**  
**DIAMOND 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 – 1,225'       | 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' – 11,400' | 7.625" | 29.7#  | HCP-110 | FlushMax III | 1.125                      | 1.25                    | 1.60                      |
| 6.75"     | 0' – 10,900'     | 5.5"   | 20#    | P-110EC | DWC/C-IS MS  | 1.125                      | 1.25                    | 1.60                      |
| 6.75"     | 10,900'-19,901'  | 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"<br>1,225' | 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"<br>11,400' | 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"<br>19,901' | 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 @ 10,900')                                    |

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.**  
**DIAMOND 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.

| Depth                        | Type        | Weight (ppg) | Viscosity | Water Loss |
|------------------------------|-------------|--------------|-----------|------------|
| 0 - 1,225'                   | Fresh - Gel | 8.6-8.8      | 28-34     | N/c        |
| 1,225' - 11,400'             | Brine       | 8.8-10.0     | 28-34     | N/c        |
| 11,400' - 19,901'<br>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.**  
**DIAMOND 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 7443 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.**  
**DIAMOND 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.

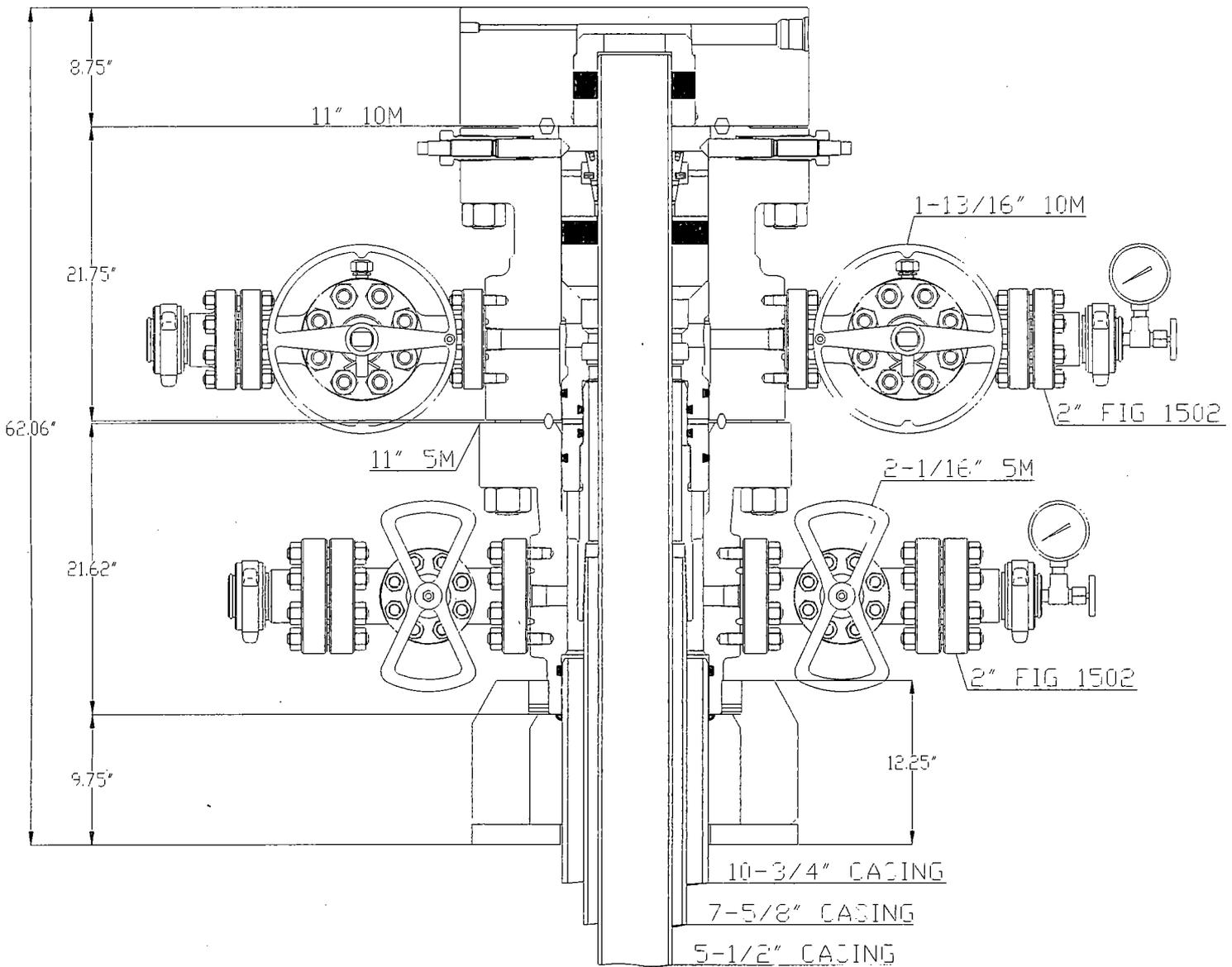
All BOP equipment will be tested utilizing a conventional test plug. Not a cup or J-packer type.

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.

See previously attached Drill Plan

See previously attached Drill Plan



\*CONCEPT QUOTE DRAWING  
 \*DIMENSIONS ARE APPROXIMATE

EOG RESOURCES

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

|     |     |         |
|-----|-----|---------|
| DWN | BAY | 2/22/17 |
| CHK |     |         |
| APP |     |         |
|     | BY  | DATE    |

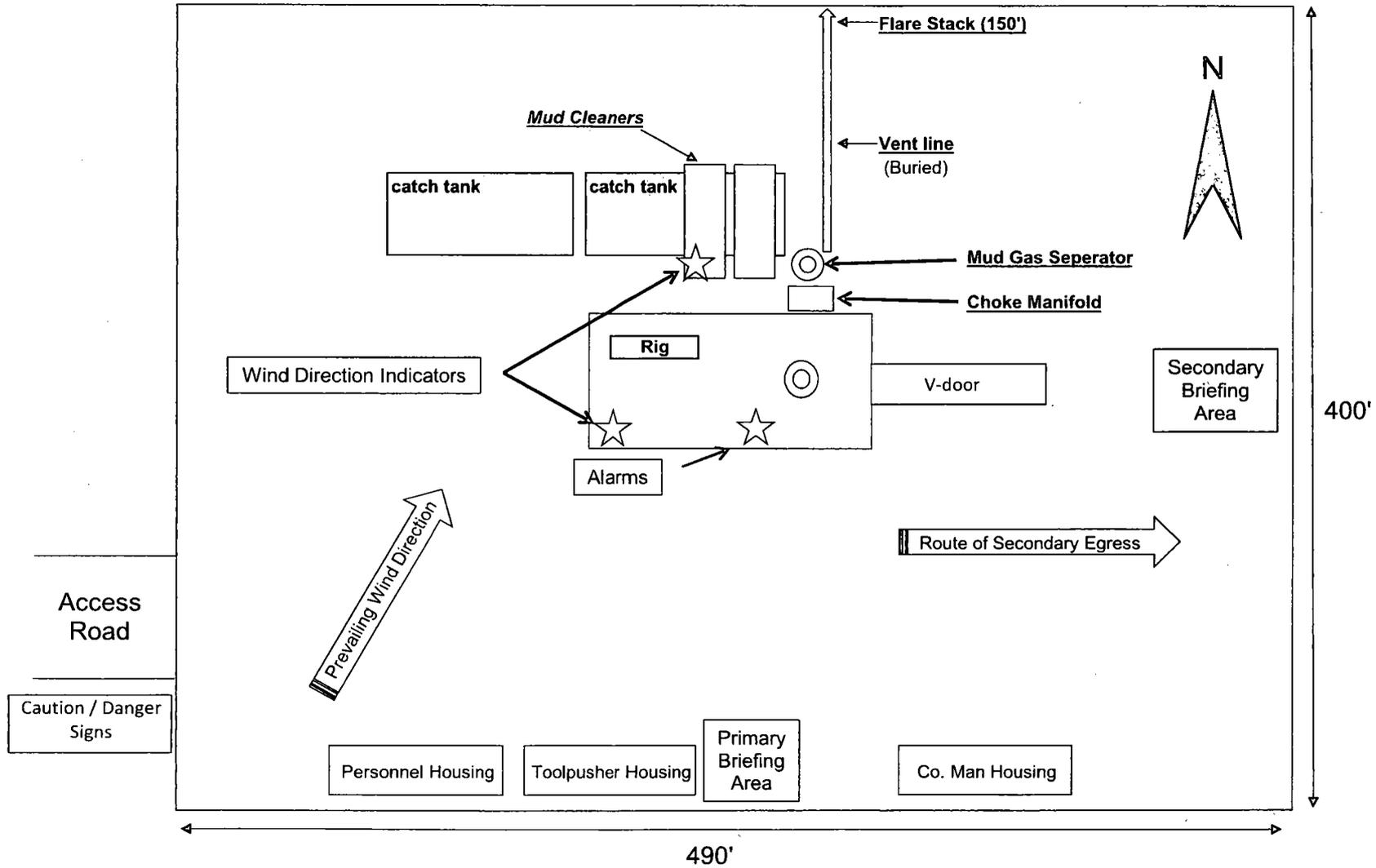


Worldwide Expertise - Global Strength

DRAWING NO  
 WH-16618

Exhibit 4  
EOG Resources  
Diamond 31 Fed Com #703H

Well Site Diagram



**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** DIAMOND 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:**

DIAMOND31FEDCOM703H\_radius\_20170828135247.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:** Diamond 31 Fed Com central tank battery is located in the SW/4 of section 31

**Production Facilities map:**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** DIAMOND 31 FED COM

**Well Number:** 703H

DIAMOND31FEDCOM\_INFRASTRUCTURE\_20170828135258.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:** FEDERAL

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

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 0

**Source volume (acre-feet):** 0

**Source volume (gal):** 0

**Water source and transportation map:**

Diamond\_31\_Fed\_Com\_Water\_and\_Caliche\_Map\_20170828135346.pdf

**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:** DIAMOND 31 FED COM

**Well Number:** 703H

**State appropriation permit:**

**Additional information attachment:**

## Section 6 - Construction Materials

**Construction Materials description:** Caliche will be supplied from pits shown on the attached caliche source map. 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. The procedure for "Flipping" a well location is as follows: \* -An adequate amount of topsoil/root zone (usually top 6 inches of soil) will be stripped from the proposed well location and stockpiled along the side of the well location as depicted on the well site diagram/survey plat. -An area will be used within the proposed well site dimensions to excavate caliche. Subsoil will be removed and stockpiled within the surveyed well pad dimensions. -Once caliche/surfacing mineral is found, the mineral material will be excavated and stock piled within the approved drilling pad dimensions. -Then, subsoil will be pushed back in the excavated hole and caliche will be spread accordingly across the entire well pad and road (if available). -Neither caliche, nor subsoil will be stock piled outside of the well pad dimensions. Topsoil will be stockpiled along the edge of the pad as depicted in the Well Site Layout or survey plat. \* In the event that no caliche is found onsite, caliche will be hauled in from a BLM approved caliche pit or other established mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or federal land.

**Construction Materials source location attachment:**

Diamond\_31\_Fed\_Com\_Water\_and\_Caliche\_Map\_20170828135401.pdf

## 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.)**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** DIAMOND 31 FED COM

**Well Number:** 703H

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

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### **Cuttings Area**

**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:**

DIAMOND31FEDCOM703H\_padsite\_20170828135422.pdf

DIAMOND31FEDCOM703H\_wellsite\_20170828135423.pdf

Diamond\_31\_FC\_703H\_Rig\_Layout\_20170905124610.pdf

**Comments:** Exhibit 2A-Wellsite & Exhibit 2B-Padsite Rig Layout Exhibit 4

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** DIAMOND 31 FED COM

**Well Number:** 703H

## Section 10 - Plans for Surface Reclamation

**Type of disturbance:** New Surface Disturbance

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

**Multiple Well Pad Number:** 701H/702H/703H

### Recontouring attachment:

DIAMOND31FEDCOM703H\_reclamation\_20170828135437.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.

**Wellpad long term disturbance (acres):** 3.133609

**Wellpad short term disturbance (acres):** 4.499541

**Access road long term disturbance (acres):** 1.390083

**Access road short term disturbance (acres):** 1.390083

**Pipeline long term disturbance (acres):** 0.8030303

**Pipeline short term disturbance (acres):** 1.3383838

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

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

**Total long term disturbance:** 5.326722

**Total short term disturbance:** 7.228008

**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:**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** DIAMOND 31 FED COM

**Well Number:** 703H

**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:**

**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:**

| Seed Type | Pounds/Acre |
|-----------|-------------|
|-----------|-------------|

**Seed reclamation attachment:**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** DIAMOND 31 FED COM

**Well Number:** 703H

### **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:**

**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, PRIVATE OWNERSHIP

**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:**

**Operator Name:** EOG RESOURCES INCORPORATED

**Well Name:** DIAMOND 31 FED COM

**Well Number:** 703H

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Fee Owner:** Mark McCloy

**Fee Owner Address:**

**Phone:** (432)940-4459

**Email:**

**Surface use plan certification:** NO

**Surface use plan certification document:**

**Surface access agreement or bond:** Agreement

**Surface Access Agreement Need description:** surface use agreement

**Surface Access Bond BLM or Forest Service:**

**BLM Surface Access Bond number:**

**USFS Surface access bond number:**

## Section 12 - Other Information

**Right of Way needed?** NO

**Use APD as ROW?**

**ROW Type(s):**

### ROW Applications

**SUPO Additional Information:** An onsite meeting was conducted 7/25/17. Poly lines are planned to transport water for operations. Will truck if necessary. See attached SUPO Plan.

**Use a previously conducted onsite?** NO

**Previous Onsite information:**

### Other SUPO Attachment

DIAMOND31FEDCOM703H\_location\_20170828135751.pdf

SUPO\_Diamond\_31\_Fed\_Com\_703H\_20170828135752.pdf

Diamond\_31\_FC\_703H\_deficiency\_response\_20171019100835.pdf



# United States Department of the Interior



BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE  
620 E. GREENE ST.  
CARLSBAD, NM 88220

In Reply To:  
3160 (Office Code)  
[ NMNM28881 ]

10/16/2017

Attn: STAN WAGNER  
EOG RESOURCES INCORPORATED  
1111 BAGBY SKY LOBBY2  
HOUSTON, TX 77002

Re: Receipt and Acceptability of Application for Permit to Drill (APD)

**FEDERAL - NMNM28881**

Well Name / Number: **DIAMOND 31 FED COM / 703H**  
Legal Description: T24S, R34E, SEC 31, LOT 4  
County, State: LEA, NM  
Date APD Received: 09/05/2017

Dear Operator:

The BLM received your Application for Permit to Drill (APD), for the referenced well, on 09/05/2017. The BLM reviewed the APD package pursuant to part III.D of Onshore Oil and Gas Order No.1 and it is:

1.  Incomplete/Deficient (The BLM cannot process the APD until you submit the identified items within 45 calendar days of the date of this notice or the BLM will return your APD.)

- Well Plat
- Drilling Plan
- Surface Use Plan of Operations (SUPO)
- Certification of Private Surface Owner Access Agreement
- Bonding
- Onsite (The BLM has scheduled the onsite to be on \_\_\_\_\_ )  
This requirement is exempt of the 45-day timeframe to submit deficiencies. This requirement will be satisfied on the date of the onsite.
- Other

**[Please See Addendum for further clarification of deficiencies]**

2.  Missing Necessary Information (*The BLM can start, but cannot complete the analysis until you submit the identified items. This is an early notice and the BLM will restate this in a 30-day deferral letter, if you have not submitted the information at that time. You will have two (2) years from the date of the deferral to submit this information or the BLM will deny your APD.*)

*{Please See Addendum for further clarification of deficiencies}*

NOTE: The BLM will return your APD package to you, unless you correct all deficiencies identified above (item 1) within 45 calendar days.

- The BLM will not refund an APD processing fee or apply it to another APD for any returned APD.

**Extension Requests:**

- If you know you will not be able to meet the 45-day timeframe for reasons beyond your control, you must submit a written request through email/standard mail for extension prior to the 45<sup>th</sup> calendar day from this notice. **11/30/2017**.
- The BLM will consider the extension request if you can demonstrate your diligence (providing reasons and examples of why the delay is occurring beyond your control) in attempting to correct the deficiencies and can provide a date by which you will correct the deficiencies. If the BLM determines that the request does not warrant an extension, the BLM will return the APD as incomplete after the 45 calendar days have elapsed.
  - The BLM will determine whether to grant an extension beyond the required 45 calendar days and will document this request in the well file. If you fail to submit deficiencies by the date defined in the extension request, the BLM will return the APD.

**APDs remaining Incomplete:**

- If the APD is still not complete, the BLM will notify you and allow 10 additional business days to submit a written request to the BLM for an extension. The request must describe how you will address all outstanding deficiencies and the timeframe you request to complete the deficiencies.
  - The BLM will consider the extension request if you can prove your diligence (providing reasons and examples of why the delay is occurring) in attempting to correct the deficiencies and you can provide a date by which you will correct the deficiencies. If the BLM determines that the request does not warrant an additional extension, the BLM will return the APD as incomplete.

If you have any questions, please contact Priscilla Perez at (575) 234-5934.

Sincerely,

*Cody Layton*  
*Assistant Field Manager*

cc: Official File

ADDENDUM - Deficient

Surface Comments

- Well Site Layout Deficiency:  
Please provide a cut and fill diagram.

*Attached*



## 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:

### **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:**

**Injection well name:**

**Assigned injection well API number?**

**Injection well API number:**

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

**Minerals protection information:**

**Mineral protection attachment:**

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

**UIC Permit attachment:**

### **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

04/24/2018

### 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: DIAMOND 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<br>Leg<br>#1 | 231<br>0 | FSL          | 985     | FWL          | 24S  | 34E   | 30      | Lot<br>3          | 32.18764<br>75 | -<br>103.5143<br>232 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | S          | STATE        | -<br>898<br>0 | 198<br>01 | 124<br>47 |
| BHL<br>Leg<br>#1  | 241<br>0 | FSL          | 984     | FWL          | 24S  | 34E   | 30      | Lot<br>3          | 32.18792<br>24 | -<br>103.5143<br>235 | LEA    | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | S          | STATE        | -<br>898<br>0 | 199<br>01 | 124<br>47 |



APD ID: 10400020655

Submission Date: 09/05/2017

Highlighted data reflects the most recent changes

Operator Name: EOG RESOURCES INCORPORATED

Well Name: DIAMOND 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:

DIAMOND31FEDCOM703H\_vicinity\_20170828135209.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:

DIAMOND31FEDCOM\_INFRASTRUCTURE\_20170828135234.pdf

DIAMOND31FEDCOM703H\_padsite\_20170828135234.pdf

DIAMOND31FEDCOM703H\_wellsite\_20170828135235.pdf

New road type: RESOURCE

Length: 2523 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