| Form 3160 - 3 (March 2012) UNITED STATE | | | HOBBS SEP 28 | S OC 2017 | D FORM OMB N Expires O 5. Lease Serial No. | | 37 |
|---|-----------------------------|-------------------|--|---------------------|---|---------------|-----------------|
| DEPARTMENT OF THE BUREAU OF LAND MA APPLICATION FOR PERMIT TO | NAGEME | ENI | NECEN | 'ED | 6. If Indian, Allotee | | Name |
| la. Type of work: 🔽 DRILL 🗌 REENT | rer | | | | 7 If Unit or CA Agre | ement, N | ame and No. |
| lb. Type of Well: 🔽 Oil Well 🗍 Gas Well 🗍 Other | ا | ⊿ Sin: | gle Zone 🔲 Multip | le Zone | 8. Lease Name and V DOGWOOD 23 FE | | (319669 |
| 2. Name of Operator EOG RESOURCES INCORPORATED | -5 | | 7) | | 9. API Well No. 30-02 | | 44074 |
| 3a. Address 1111 Bagby Sky Lobby2 Houston TX 77002 | 3b. Phon (713)6 | | (include area code) 000 | | 10. Field and Pool, or RED HILLS / WC-0 | Explorato | · (/ 8047 |
| Location of Well (Report location clearly and in accordance with a At surface SESE / 200 FSL / 604 FEL / LAT 32.022241 At proposed prod. zone NENE / 230 FNL / 843 FEL / LAT | 16 / LONG | 3 -10: | 3.5365456 | 34 | 11. Sec., T. R. M. or B SEC 23 / T26S / R | lk.and St | urvey or Area |
| 14. Distance in miles and direction from nearest town or post office* 22 miles | | | LONG - 103.33731 | | 12. County or Parish LEA | | 13. State NM |
| 15. Distance from proposed* location to nearest 200 feet property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No. 1640 | of ac | res in lease | 17. Spacir 320 | ng Unit dedicated to this v | well | · |
| Distance from proposed location* to nearest well, drilling, completed, 513 feet applied for, on this lease, ft. | 19. Pro | • | Depth / 22574 feet | 20. BLM/ | BIA Bond No. on file | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3331 feet | , | proxim | nate date work will sta | | 23. Estimated duratio | n | |
| | | | hments | | 23 0495 | | |
| The following, completed in accordance with the requirements of Onsh | | | | tached to th | nis form: | | |
| Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syster SUPO must be filed with the appropriate Forest Service Office). | | | Bond to cover the second second | he operation | ons unless covered by an formation and/or plans as | Ū | · |
| 25. Signature (Electronic Submission) | | | (Printed/Typed) Vagner / Ph: (432) | 686-3689 |) | Date 03/07 | /2017 |
| Title Regulatory Specialsit | | | | | | | |
| Approved by (Signature) (Electronic Submission) | 1 | | (Printed/Typed) _ayton / Ph: (575)2 | 234-5959 | | Date 09/22 | 2/2017 |
| Title Supervisor Multiple Resources | | Office CARL | SBAD | | | 1 | |
| Application approval does not warrant or certify that the applicant ho conduct operations thereon. Conditions of approval, if any, are attached. | lds legal or | equit | able title to those righ | ts in the su | bject lease which would e | entitle the | applicant to |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations a | crime for a is to any ma | any pe atter w | rson knowingly and vithin its jurisdiction. | villfully to 1 | make to any department of | or agency | of the United |
| (Continued on page 2) | VED V | VIT | H CONDITI | ONS | | | ns on page 2) |
| | | | | | 6 | | 10 |

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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.

(Continued on page 3)

(Form 3160-3, page 2)

Additional Operator Remarks

Location of Well

SHL: SESE / 200 FSL / 604 FEL / TWSP: 26S / RANGE: 33E / SECTION: 23 / LAT: 32.0222416 / LONG: -103.5365456 (TVD: 0 feet, MD: 0 feet)
 PPP: SESE / 330 FSL / 843 FEL / TWSP: 26S / RANGE: 33E / SECTION: 23 / LAT: 32.0225988 / LONG: -103.5373177 (TVD: 12455 feet, MD: 12570 feet)
 BHL: NENE / 230 FNL / 843 FEL / TWSP: 26S / RANGE: 33E / SECTION: 14 / LAT: 32.0500801 / LONG: -103.5373134 (TVD: 12500 feet, MD: 22574 feet)

BLM Point of Contact

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934

Email: pperez@blm.gov

(Form 3160-3, page 3)

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.

(Form 3160-3, page 4)

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

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

Title: Regulatory Specialsit

Street Address: 5509 Champions Drive

City: Midland

Phone: (432)686-3689

Email address: Stan_Wagner@eogresources.com

State: TX

State: TX

Field Representative

Representative Name: James Barwis

Street Address: 5509 Champions Drive

City: Midland

Zip: 79706

Zip: 79702

erator Centification Data Report

Signed on: 03/07/2017

Phone: (432)425-1204

Email address: james_barwis@eogresources.com

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Application Data Report

_09/25/2017

APD ID: 10400010754

Operator Name: EOG RESOURCES INCORPORATED

Well Name: DOGWOOD 23 FED COM

Well Type: OIL WELL

Submission Date: 03/07/2017

Well Number: 702H Well Work Type: Drill Highlighted data reflects the most recent changes

Show Final Text

Section 1 - General

| APD ID: 10400010754 | Tie to previous NOS? | Submission Date: 03/07/2017 |
|------------------------------------|-----------------------------|--|
| BLM Office: CARLSBAD | User: Stan Wagner | Title: Regulatory Specialsit |
| Federal/Indian APD: FED | Is the first lease penetrat | ed for production Federal or Indian? FED |
| Lease number: NMNM122622 | Lease Acres: 1640 | |
| Surface access agreement in place? | Allotted? | Reservation: |
| Agreement in place? NO | Federal or Indian agreem | ent: |
| Agreement number: | | |
| Agreement name: | | |
| Keep application confidential? NO | | |
| Permitting Agent? NO | APD Operator: EOG RES | OURCES INCORPORATED |
| Operator letter of designation: | | · · |

Operator Info

| Operator Organization Name: | EOG RESOURCES INCORPORATED | |
|------------------------------|----------------------------|-------------------|
| Operator Address: 1111 Bagby | y Sky Lobby2 | 7 : |
| Operator PO Box: | | Zip: 77002 |
| Operator City: Houston | State: TX | |
| Operator Phone: (713)651-700 | 0 | |

Operator Internet Address:

Section 2 - Well Information

| Well in Master Development Plan? NO | Mater Development Plan name: | |
|---|------------------------------|----------------------------|
| Well in Master SUPO? NO | Master SUPO name: | |
| Well in Master Drilling Plan? NO | Master Drilling Plan name: | |
| Well Name: DOGWOOD 23 FED COM | Well Number: 702H | 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? USEABLE WATER

Page 1 of 3

Well Number: 702H

| Describe other minerals: | | | | |
|--|----------------|---|----------|--------------------------|
| Is the proposed well in a Helium produ | ction area? N | Use Existing Well Pad? | NO N | lew surface disturbance? |
| Type of Well Pad: MULTIPLE WELL | | Multiple Well Pad Name | | lumber: 701H/702H |
| Well Class: HORIZONTAL | | DOGWOOD 23 FED CON Number of Legs: 1 | М | |
| Well Work Type: Drill | | | | |
| Well Type: OIL WELL | | | | |
| Describe Well Type: | | | | |
| Well sub-Type: INFILL | | | | |
| Describe sub-type: | | | | |
| Distance to town: 22 Miles | Distance to ne | arest well: 513 FT | Distance | to lease line: 200 FT |
| Reservoir well spacing assigned acres | Measurement | : 320 Acres | | |
| Well plat: Dogwood_23_Fed_Com_7 | 02H_signed_C_ | _102_03-07-2017.pdf | · | |
| Well work start Date: 08/01/2017 | | Duration: 25 DAYS | | |

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Survey number:

Aliquot/Lot/Tract -ease Number EW Indicator NS Indicator -ongitude Elevation NS-Foot ease Type EW-Foot Meridian Section -atitude Range County State Twsp 2 Z Ð SHL 200 FSL 26S 33E 23 Aliquot 32.02224 LEA NEW NEW NMNM 333 604 FEL ١F 0 0 MEXI MEXI 103.5365 122622 16 1 Leg SESE со со 456 #1 KOP 33E 23 Aliquot 32.02183 LEA NEW NEW F NMNM 120 120 50 FSL 829 FEL 26S 122622 868 MEXI 18 103.5372 MEXI 13 SESE 71 Leg со CO 2 771 #1 PPP Aliquot NEW NEW F 125 124 330 FSL 843 FEL 26S 33E 23 32.02259 LEA NMNM 122622 912 MEXI MEXI 70 55 88 103.5373 SESE Leg 177. со со 4 #1

Vertical Datum: NAVD88

Page 2 of 3

Well Number: 702H

Well Name: DOGWOOD 23 FED COM

| | 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 | 843 | FEL | 26S | 33E | 14 | Aliquot NENE | 32.04980 44 | - 103.5373 15 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 122621 | - 916 9 | 224 74 | 125 00 |
| BHL Leg #1 | 230 | FNL | 843 | FEL | 26S | 33E | 14 | Aliquot NENE | 32.05008 01 | - 103.5373 134 | LEA | NEW MEXI CO | NEW MEXI CO | F | NMNM 122621 | - 916 9 | 225 74 | 125 00 |

Well Name: DOGWOOD 23 FED COM

Well Number: 702H

Pressure Rating (PSI): 10M

Rating Depth: 12500

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 (10000-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 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. 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 surry, for 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:

Dogwood 23 Fed Com 702H 5 M Choke Manifold Diagram (3-21-14)_03-02-2017.pdf

10M_Choke_Manifold_07-10-2017.pdf

BOP Diagram Attachment:

Dogwood 23 Fed Com 702H 5 M BOP Diagram (8-14-14)_03-02-2017.pdf

10M_BOPE_07-10-2017.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 |
|-----------|------------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|--------------------------------|-------------|--------|--------------------|-------------|----------|---------------|----------|--------------|---------|
| | INTERMED IATE | 9.87 5 | 7.625 | NEW | API | N | 0 | 1000 | 0 | 1000 | 3331 | 2331 | | HCP -110 | 29.7 | LTC | 1.12 5 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |
| 2 | SURFACE | 14.7 5 | 10.75 | NEW | API | N | 0 | 1045 | 0 | 1045 | 3331 | 2286 | 1045 | J-55 | 40.5 | STC | 1.12 5 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |
| | INTERMED IATE | 9.87 5 | 7.625 | NEW | API | N | 1000 | 3000 | 1000 | 3000 | 2331 | 331 | | OTH ER | | OTHER - SJIJ II | 1.12 5 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |
| | PRODUCTI ON | 6.75 | 5.5 | NEW | API | N | 0 | 11100 | 0 | 11100 | 3331 | -7769 | 11100 | OTH ER | | | 1.12 5 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |

Well Name: DOGWOOD 23 FED COM

Well Number: 702H

| 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 |
|-----------|----------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|--------------------------------|-------------|--------|-------------------------|-------------|----------|---------------|----------|--------------|---------|
| | INTERMED | 8.75 | 7.625 | NEW | API | N | 3000 | 11600 | 3000 | 11600 | 331 | -8269 | 8600 | HCP -110 | | OTHER - Flushmax III | | 1.25 | BUOY | 1.6 | BUOY | 1.6 |
| | PRODUCTI ON | 6.75 | 5.5 | NEW | API | N | 11100 | 22574 | 11100 | 12500 | -7769 | -9169 | | OTH ER | | OTHER - VAM SFC | 1.12 5 | 1.25 | BUOY | 1.6 | BUOY | 1.6 |

Casing Attachments

Casing ID: 1

String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Dogwood 23 Fed Com 702H BLM Plan_03-02-2017.pdf

Casing ID: 2

String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Dogwood 23 Fed Com 702H BLM Plan_03-02-2017.pdf

Well Name: DOGWOOD 23 FED COM

Well Number: 702H

| Casing Attachments | |
|---|-------|
| Casing ID: 3 String Type:INTERMEDIATE Inspection Document: | |
| | |
| Spec Document: | |
| Tapered String Spec: | |
| Casing Design Assumptions and Worksheet(s): | |
| Dogwood 23 Fed Com 702H BLM Plan_03-02-2017.pdf | |
| Casing ID: 4 String Type:PRODUCTION Inspection Document: | |
| Spec Document: | · · · |
| Tapered String Spec: | |
| Casing Design Assumptions and Worksheet(s): | |
| Dogwood 23 Fed Com 702H BLM Plan_03-02-2017.pdf | |
| Casing ID: 5 String Type: INTERMEDIATE Inspection Document: | |
| Spec Document: | |
| Tapered String Spec: | |
| Casing Design Assumptions and Worksheet(s): | |
| Dogwood 23 Fed Com 702H BLM Plan_03-02-2017.pdf | |

Well Name: DOGWOOD 23 FED COM

Well Number: 702H

.

Casing Attachments

Casing ID: 6 String Type: PRODUCTION

Inspection Document:

Spec Document:

...

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Dogwood 23 Fed Com 702H BLM Plan_03-02-2017.pdf

| Section | 4 - Ce | emen | t | | | | | _ | | | |
|--------------|-----------|---------------------|-----------|-----------|--------------|-------|---------|-------|---------|-------------|--|
| String Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
| INTERMEDIATE | Lead | | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| PRODUCTION | Lead | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| INTERMEDIATE | Lead | | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | 0 |
| SURFACE | Lead | | 0 | 1045 | 325 | 1.73 | 13.5 | 562 | 25 | Class C | Class C + 4.0% Bentonite + 0.6% CD- 32 + 0.5% CaCl2 + 0.25 Ib/sk Cello-Flake (TOC @ Surface) |
| SURFACE | Tail | | 1045 | 1045 | 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 | 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. |

Page 5 of 8

Operator Name: EOG RESOURCES INCORPORATED Well Name: DOGWOOD 23 FED COM

Well Number: 702H

| String.Type | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives |
|-------------|-----------|---------------------|-----------|-----------|--------------|-------|---------|-------|---------|-------------|---|
| PRODUCTION | Lead | | 1110 0 | 2257 4 | 950 | 1.26 | 14.1 | 1197 | 25 | Class H | Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C- 17 (TOC @ 11100') |

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.

| Top Depth | Bottom Depth | Mud Type | Min Weight (Ibs/gal) | Max Weight (Ibs/gal) | Density (Ibs/cu ft) | Gel Strength (lbs/100 sqft) | На | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics | |
|-----------|--------------|--------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|--|
| 1045 | 1160 0 | SALT SATURATED | 8.8 | 10 | | | | | | | | |
| 1160 0 | 2257 4 | OIL-BASED MUD | 10 | 14 | | | | | | | | |
| 0 | 1045 | WATER-BASED MUD | 8.6 | 8.8 | | | | | | | | |

Circulating Medium Table

Well Name: DOGWOOD 23 FED COM

Well Number: 702H

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: 7516

Anticipated Surface Pressure: 4766

Anticipated Bottom Hole Temperature(F): 181

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards attachment:

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations plan:

Dogwood 23 Fed Com 702H H2S Plan Summary_03-02-2017.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

Dogwood 23 Fed Com 702H Planning Report_03-02-2017.pdf Dogwood 23 Fed Com 702H Wall plot_03-02-2017.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

Dogwood 23 Fed Com 702H 5.500in 20.00 VST P110EC DWC_C-IS MS Spec Sheet_03-02-2017.pdf Dogwood 23 Fed Com 702H 7.625in 29.7 P110EC VAM SLIJ-II_03-02-2017.pdf Dogwood 23 Fed Com 702H 5.500in 20.00 VST P110EC VAM SFC Spec Sheet_03-02-2017.pdf Dogwood 23 Fed Com 702H 7.625in 29.70 P-110 FlushMax III Spec Sheet_03-02-2017.pdf Dogwood 23 Fed Com 702H BLM Plan_03-02-2017.pdf Dogwood 23 Fed Com 702H Rig Layout_03-02-2017.pdf

Dogwood 23 Fed Com 702H Proposed Wellbore_03-02-2017.pdf

Other Variance attachment:

Dogwood 23 Fed Com 702H Co-Flex Hose Certification_03-02-2017.PDF

Well Name: DOGWOOD 23 FED COM

Well Number: 702H

1

Dogwood 23 Fed Com 702H Co-Flex Hose Test Chart_03-02-2017.pdf