

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
Multiple--See Attached

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
Multiple--See Attached8. Well Name and No.
Multiple--See Attached9. API Well No.
Multiple--See Attached

30-025-44831

10. Field and Pool or Exploratory Area
Multiple--See Attached11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

EOG RESOURCES INCORPORATED

Contact: STAR L HARRELL

E-Mail: Star_Harrell@eogresources.com

3a. Address

MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-848-9161

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

Multiple--See Attached

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

EOG Resources, Inc. respectfully requests to, on multiple wells, amend the cementing program to include a bradenhead squeeze stage and to amend the casing program and revise annulus clearance criteria. The list of wells & API numbers is attached.

Cement

EOG requests a variance from the minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated TOC @ the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. A top out stage will be performed as a contingency.

EOG also requests to perform this cement procedure on previously permitted 4 string designs in the 7-5/8" 2nd Intermediate casing string as a contingency plan.

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

Electronic Submission #451738 verified by the BLM Well Information System

For EOG RESOURCES INCORPORATED, sent to the Hobbs

Committed to AFMSS for processing by CHRISTOPHER WALLS on 01/28/2019 (19CRW0003SE)

Name (Printed/Typed) STAR L HARRELL

Title SR REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 01/24/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS

Title PETROLEUM ENGINEER

Date 01/28/2019

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #451738 that would not fit on the form

5. Lease Serial No., continued

NMNM02965A
NMNM108504
NMNM118726
NMNM121490
NMNM122622
NMNM26079
NMNM26394
NMNM66927

Wells/Facilities, continued

| Agreement | Lease | Well/Fac Name, Number | API Number | Location |
|------------|------------|-------------------------------|--------------------|--|
| NMNM122622 | NMNM122622 | PEACHTREE 24 FED COM 701H | 30-025-44831-00-X1 | Sec 24 T26S R33E SESE 190FSL 732FEL 32.022179 N Lat, 103.519905 W Lon |
| NMNM108504 | NMNM108504 | JAVELINA 30 FED 701H | 30-025-42829-00-X1 | Sec 30 T25S R34E Lot 3 2191FSL 566FWL |
| NMNM108504 | NMNM108504 | JAVELINA 30 FED 702H | 30-025-42830-00-X1 | Sec 30 T25S R34E Lot 3 2191FSL 599FWL |
| NMNM122622 | NMNM122622 | PEACHTREE 24 FED COM 704H | 30-025-44834-00-X1 | Sec 24 T26S R33E SWSE 190FSL 1767FEL 32.022185 N Lat, 103.523245 W Lon |
| NMNM02965A | NMNM02965A | MAGNOLIA 15 FED COM 703H | 30-025-44374-00-X1 | Sec 15 T26S R33E NENW 1145FNL 2133FWL 32.047588 N Lat, 103.561836 W Lon |
| NMNM02965A | NMNM02965A | MAGNOLIA 15 FED COM 705H | 30-025-44346-00-X1 | Sec 15 T26S R33E NENW 1080FNL 2159FWL 32.047768 N Lat, 103.561752 W Lon |
| NMNM02965A | NMNM02965A | MAGNOLIA 15 FED COM 706H | 30-025-44399-00-X1 | Sec 15 T26S R33E NWNE 390FNL 1903FEL 32.049660 N Lat, 103.557793 W Lon |
| NMNM02965A | NMNM02965A | MAGNOLIA 15 FED COM 707H | 30-025-44400-00-X1 | Sec 15 T26S R33E NWNE 390FNL 1868FEL 32.049660 N Lat, 103.557678 W Lon |
| NMNM02965A | NMNM02965A | MAGNOLIA 15 FED COM 710H | 30-025-44402-00-X1 | Sec 15 T26S R33E NENE 771FNL 1268FEL 32.048611 N Lat, 103.555748 W Lon |
| NMNM02965A | NMNM02965A | MAGNOLIA 15 FED COM 711H | 30-025-44403-00-X1 | Sec 15 T26S R33E NENE 746FNL 1244FEL 32.048679 N Lat, 103.555664 W Lon |
| NMNM02965A | NMNM02965A | MAGNOLIA 15 FED COM 712H | 30-025-44404-00-X1 | Sec 15 T26S R33E NENE 740FNL 683FEL 32.048695 N Lat, 103.553856 W Lon |
| NMNM02965A | NMNM02965A | MAGNOLIA 15 FED COM 713H | 30-025-44405-00-X1 | Sec 15 T26S R33E NENE 740FNL 648FEL 32.048691 N Lat, 103.553741 W Lon |
| NMNM02965A | NMNM02965A | MAGNOLIA 15 FED COM 714H | 30-025-44406-00-X1 | Sec 15 T26S R33E NENE 740FNL 613FEL 32.048691 N Lat, 103.553627 W Lon |
| NMNM02965A | NMNM02965A | PEACHTREE 24 FED COM 705H | 30-025-44751-00-X1 | Sec 24 T26S R33E SESW 268FSL 2321FWL 32.022408 N Lat, 103.527107 W Lon |
| NMNM02965A | NMNM02965A | PEACHTREE 24 FED COM 706H | 30-025-44752-00-X1 | Sec 24 T26S R33E SESW 268FSL 2286FWL 32.022408 N Lat, 103.527222 W Lon |
| NMNM02965A | NMNM02965A | PEACHTREE 24 FED COM 707H | 30-025-44756-00-X1 | Sec 24 T26S R33E SESW 268FSL 2251FWL 32.022411 N Lat, 103.527336 W Lon |
| NMNM02965A | NMNM02965A | PEACHTREE 24 FED COM 709H | 30-025-44753-00-X1 | Sec 24 T26S R33E SWSW 268FSL 786FWL 32.022423 N Lat, 103.532059 W Lon |
| NMNM02965A | NMNM02965A | PEACHTREE 24 FED COM 710H | 30-025-44754-00-X1 | Sec 24 T26S R33E SWSW 268FSL 751FWL 32.022423 N Lat, 103.532173 W Lon |
| NMNM02965A | NMNM02965A | PEACHTREE 24 FEDERAL COM 708H | 30-025-44755-00-X1 | Sec 24 T26S R33E SWSW 268FSL 821FWL 32.022423 N Lat, 103.531952 W Lon |
| NMNM26394 | NMNM26394 | GREEN DRAKE 16 FED COM 701H | | Sec 16 T25S R33E NWSW 2390FSL 627FWL 32.129906 N Lat, 103.583733 W Lon |
| NMNM26394 | NMNM26394 | GREEN DRAKE 16 FED COM 702H | | Sec 16 T25S R33E NWSW 2390FSL 660FWL 32.129902 N Lat, 103.583626 W Lon |
| NMNM26394 | NMNM26394 | GREEN DRAKE 16 FED COM 703H | | Sec 16 T25S R33E NWSW 2390FSL 693FWL 32.129902 N Lat, 103.583519 W Lon |
| NMNM26394 | NMNM26394 | GREEN DRAKE 16 FED COM 704H | | Sec 16 T25S R33E NESW 2075FSL 1560FWL 32.129032 N Lat, 103.580719 W Lon |
| NMNM26394 | NMNM26394 | GREEN DRAKE 16 FED COM 705H | | Sec 16 T25S R33E NESW 2051FSL 1583FWL 32.128967 N Lat, 103.580643 W Lon |
| NMNM118726 | NMNM118726 | ANTIETAM 9 FED COM 713H | | Sec 9 T25S R33E NENE 1052FNL 690FEL 32.149448 N Lat, 103.570999 W Lon |
| NMNM118726 | NMNM118726 | ANTIETAM 9 FED COM 714H | | Sec 9 T25S R33E NENE 1052FNL 657FEL 32.149449 N Lat, 103.570890 W Lon |
| NMNM118726 | NMNM118726 | ANTIETAM 9 FED COM 715H | | Sec 9 T25S R33E NENE 1052FNL 624FEL 32.149448 N Lat, 103.570786 W Lon |
| NMNM26079 | NMNM26079 | STREETCAR 15 FED 706H | 30-025-42877-00-X1 | Sec 15 T25S R33E SWSW 250FSL 560FWL |
| NMNM121490 | NMNM121490 | COLGROVE 35 FED COM 701H | 30-025-43018-00-X1 | Sec 35 T26S R33E Lot 4 360FSL 215FWL |
| NMNM121490 | NMNM121490 | COLGROVE 35 FED COM 702H | 30-025-42983-00-X1 | Sec 35 T26S R33E Lot 4 360FSL 245FWL |
| NMNM121490 | NMNM121490 | COLGROVE 35 FED COM 703H | 30-025-43568-00-X1 | Sec 35 T26S R33E 252FSL 1970FWL 32.000824 N Lat, 103.544815 W Lon |
| NMNM121490 | NMNM121490 | COLGROVE 35 FED COM 704H | 30-025-43569-00-X1 | Sec 35 T26S R33E 252FSL 2000FWL 32.000824 N Lat, 103.544716 W Lon |
| NMNM121490 | NMNM121490 | RATTLESNAKE 28 FED COM 710H | 30-025-44921-00-X1 | Sec 28 T26S R33E NENE 840FNL 1248FEL 32.019405 N Lat, 103.572746 W Lon |
| NMNM121490 | NMNM121490 | RATTLESNAKE 28 FED COM 711H | 30-025-44920-00-X1 | Sec 28 T26S R33E NENE 840FNL 1283FEL 32.019409 N Lat, 103.572853 W Lon |
| NMNM66927 | NMNM66927 | NAUTILUS 16 FED COM 707H | 30-025-44245-00-X1 | Sec 16 T26S R34E SWSE 280FSL 2565FEL 32.036957 N Lat, 103.474571 W Lon |
| NMNM66927 | NMNM66927 | NAUTILUS 16 FED COM 708H | 30-025-44246-00-X1 | Sec 16 T26S R34E SWSE 280FSL 2530FEL 32.036957 N Lat, 103.474457 W Lon |

10. Field and Pool, continued

RED HILLS-WOLFCAMP, WEST (GAS)
RED TANK
WC025G09S253309A-UPPER WC

10. Field and Pool, continued

WC025G09S263327G UP WOLFCAMP
WC025G09S263327G-UP WOLFCAMP

32. Additional remarks, continued

EOG will include the final fluid top verified by Echo-meter and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Surface Casing

- Casing shoe will be set at a minimum of 25' below the Tamarisk Anhydrite formation and a minimum of 25' above the Top Salt
- Casing string will consist of 9-5/8' 40 lb/ft J-55 casing with LTC connections
- Cement will be brought to surface

Intermediate Casing

- Casing shoe will be set 100' below the top of the Third Bone Spring Carbonate
- Casing string will consist of 7-5/8" 26.4 lb/ft P-110 HC casing with Ultra SF connections (spec sheet attached)
- Cement will be brought to surface according to the program outlined above

Production Casing

- Casing string will consist of 3 segments:
 - o 5-1/2" 17 lb/ft HCP-110 casing with LTC connections from surface to 500' above the 7-5/8" casing shoe
 - o 5-1/2" 17 lb/ft HCP-110 casing with VAM SFC connections covering a 500' section above the 7-5/8" intermediate shoe
 - o 5-1/2" 17 lb/ft HCP-110 casing with LTC connections from the 7-5/8" intermediate shoe to target depth
- Cement will tie back 500' above the 7-5/8" casing shoe

A diagram of the casing design can be found at the end of this document.

EOG also requests to retain the option to utilize previously permitted 4 string designs, if applicable.

Annulus Clearance

EOG requests variance to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.



Revised Permit Information 1/24/2019

Abstract: Amend the cementing program and add bradenhead squeeze stage. Amend the casing program and revise annulus clearance criteria.

EOG requests that these amendments be applied to the following wells:

| Well Name | API Number |
|------------------------------|--------------|
| Priority 1 | |
| Peachtree 24 Fed Com #701H | 30-025-44831 |
| Peachtree 24 Fed Com #704H | 30-025-44834 |
| Peachtree 24 Fed Com #705H | 30-025-44751 |
| Peachtree 24 Fed Com #706H | 30-025-44752 |
| Peachtree 24 Fed Com #707H | 30-025-44756 |
| Peachtree 24 Fed Com #708H | 30-025-44755 |
| Peachtree 24 Fed Com #709H | 30-025-44753 |
| Peachtree 24 Fed Com #710H | 30-025-44754 |
| Green Drake 16 Fed Com #701H | 30-025-45475 |
| Green Drake 16 Fed Com #702H | 30-025-45471 |
| Green Drake 16 Fed Com #703H | 30-025-45472 |
| Green Drake 16 Fed Com #704H | 30-025-45473 |
| Green Drake 16 Fed Com #705H | 30-025-45474 |
| Magnolia 15 Fed Com #703H | 30-025-44374 |
| Magnolia 15 Fed Com #705H | 30-025-44346 |
| Magnolia 15 Fed Com #706H | 30-025-44399 |
| Magnolia 15 Fed Com #707H | 30-025-44400 |
| Magnolia 15 Fed Com #710H | 30-025-44402 |
| Magnolia 15 Fed Com #711H | 30-025-44403 |
| Magnolia 15 Fed Com #713H | 30-025-44405 |
| Magnolia 15 Fed Com #714H | 30-025-44406 |
| Javelina 30 Fed #701H | 30-025-42829 |
| Javelina 30 Fed #702H | 30-025-42830 |
| Antietam 9 Fed Com #713H | 30-025-45476 |
| Antietam 9 Fed Com #714H | 30-025-45477 |
| Antietam 9 Fed Com #715H | 30-025-45478 |
| Streetcar 15 Fed #706H | 30-025-42877 |

| Priority 2 | |
|-------------------------------|--------------|
| Rattlesnake 28 Fed Com #710HX | 30-025-44921 |
| Rattlesnake 28 Fed Com #711HX | 30-025-44920 |
| Rattlesnake 28 Fed Com #712HX | 30-025-45248 |
| Colgrove 35 Fed Com #701H | 30-025-43018 |
| Colgrove 35 Fed Com #702H | 30-025-42983 |
| Colgrove 35 Fed Com #703H | 30-025-43568 |
| Colgrove 35 Fed Com #704H | 30-025-43569 |
| Priority 3 | |
| Nautilus 16 Fed Com #707H | 30-025-44245 |
| Nautilus 16 Fed Com #708H | 30-025-44246 |

NM 122622

02956A

NM 26344

NM 02965A

108504

118726

26079

12490

121490

46927

Cement

EOG requests a variance from the minimum standards to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated TOC @ the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. A top out stage will be performed as a contingency.

Cementing Program:

Primary Plans For 7-5/8" cement Job:

| Casing | | Slurry | #Sks | Wt. (ppg) | Yld (ft3/sack) | H2O gal/sk | 500# Comp. Strength | Slurry Discription |
|---|--------------------------|----------------|-------------------|----------------------|---------------------------|-----------------------|------------------------------------|--|
| Intermediate 1 st stage | | Tail | 404 | 14.2 | 1.11 | 4.47 | 4:11 Hrs | Class C Cement, Salt |
| Intermediate 2nd Stage (Tail Slurry) to be pumped as bradenhead Squeeze from surface, down the Intermediate annulus | | | | | | | | |
| Intermediate 2 nd stage | Min Density Option | Tail | 400 | 12.7 | 2.30 | 12.91 | 7:00 Hrs | Class C cement, Salt, Gel, Expansive Agent |
| | Max Density Option | | 617 | 14.8 | 1.49 | 7.05 | 4:39 Hrs | |
| Displacement | | Fresh Water | Maximum 5 bbls | 8.4 | N/A | N/A | N/A | N/A |
| Intermediate Contingency Stage to be pumped as a top out down the intermediate annulus | | | | | | | | |
| Contingency: Top Out | Min Density Option | Tail | 72 | 12.7 | 2.30 | 12.91 | 7:00 Hrs | Class C cement, Salt, Gel, Expansive Agent |
| | Max Density Option | | 112 | 14.8 | 1.49 | 7.05 | 4:39 Hrs | |

EOG also requests variance for the option to perform this cement procedure on previously permitted 4 string designs in the 7-5/8" 2nd Intermediate casing string as a contingency plan.

EOG will include the final fluid top verified by Echo-meter and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

EOG will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing

EOG requests the option to use a 3 string design implemented to the following parameters:

Surface Casing

- Casing shoe will be set at a minimum of 25' below the Tamarisk Anhydrite formation and a minimum of 25' above the Top Salt
- Casing string will consist of 9-5/8" 40 lb/ft J-55 casing with LTC connections
- Cement will be brought to surface

Intermediate Casing

- Casing shoe will be set 100' below the top of the Third Bone Spring Carbonate
- Casing string will consist of 7-5/8" 26.4 lb/ft P-110 HC casing with Ultra SF connections (spec sheet attached)
- Cement will be brought to surface according to the program outlined above

Production Casing

- Casing string will consist of 3 segments:
 - o 5-1/2" 17 lb/ft HCP-110 casing with LTC connections from surface to 500' above the 7-5/8" casing shoe
 - o 5-1/2" 17 lb/ft HCP-110 casing with VAM SFC connections covering a 500' section above the 7-5/8" intermediate shoe
 - o 5-1/2" 17 lb/ft HCP-110 casing with LTC connections from the 7-5/8" intermediate shoe to target depth
- Cement will tie back 500' above the 7-5/8" casing shoe

A diagram of the casing design can be found at the end of this document.

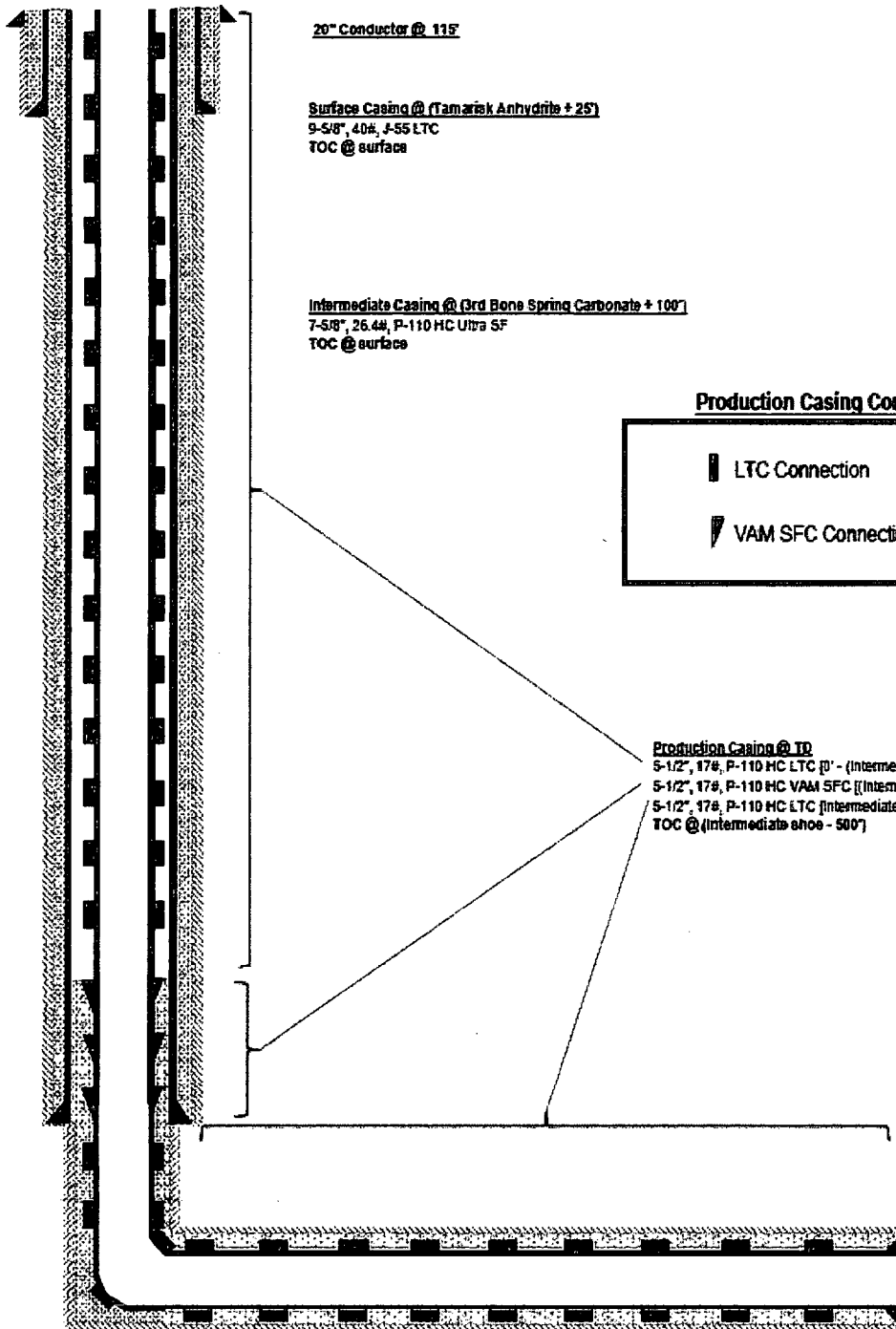
EOG also requests to retain the option to utilize previously permitted 4 string designs, if applicable

Annulus Clearance

EOG requests variance to allow deviation from the 0.422" annulus clearance requirement from Onshore Order #2 under the following conditions:

- Annular clearance to meet or exceed 0.422" between intermediate casing ID and production casing coupling only on the first 500' overlap between both casing strings.
- Annular clearance less than 0.422" is acceptable for the curve and lateral portions of the production open hole section.

Proposed Casing Design



20" Conductor @ 115'

Surface Casing @ (Tamarisk Anhydrite + 25')

9-5/8", 40#, J-55 LTC
TOC @ surface

Intermediate Casing @ (3rd Bone Spring Carbonate + 100')

7-5/8", 26.4#, P-110 HC Ultra SF
TOC @ surface

Production Casing Connections

█ LTC Connection

▤ VAM SFC Connection

Production Casing @ TD

5-1/2", 17#, P-110 HC LTC [0' - (Intermediate shoe - 500')]

5-1/2", 17#, P-110 HC VAM SFC [(Intermediate shoe - 500') - intermediate shoe]

5-1/2", 17#, P-110 HC LTC [intermediate shoe - TD]

TOC @ (intermediate shoe - 500')