

| Well Name | Well Number | US Well Number | Lease Number | Case Number | Operator |
|----------------|-------------|----------------|--------------|-------------|----------|
| MULE 23-11 FED | 624H | 3001549384 | NMLC0061862 | NMLC0061862 | DEVON |
| MULE 23-11 FED | 734H | 3001549383 | NMLC061862 | NMLC061862 | DEVON |
| MULE 23-11 FED | 714H | 3001549385 | NMLC0061862 | NMLC0061862 | DEVON |

Notice of Intent

Sundry ID: 2754517

Type of Submission: Notice of Intent

Date Sundry Submitted: 10/03/2023

Date proposed operation will begin: 10/02/2023

Type of Action: APD Change

Time Sundry Submitted: 02:33

Procedure Description: ENGINEERING ONLY Devon Energy Production Company, L.P. respectfully requests approval for optional surface casing/drilling plan of 10-3/4" surface casing inside of 14-3/4" surface hole at previously permitted set depths. Devon Energy Production Company, L.P. will circulate class C cement to surface behind the 10-3/4" casing. Devon also request an update to the intermediate and production connections and a break test variance. Please see the attached documentation.

NOI Attachments

Procedure Description

- MULE_23_11_FED_COM_714H_20231003142621.pdf
- MULE_23_11_FED_COM_624H_20231003142600.pdf
- MULE_23_11_FED_COM_734H_20231003142536.pdf
- 5.5in_x_17.00lb_P110EC_DWC_C_IS_PLUS___5_23_2023_20231003142454.pdf
- 8.625_32lb_P110EC_SPRINT_FJ_VST_20231003142344.pdf
- break_test_variance_BOP_20231003142344.pdf
- 10.750_45.5_J55_SEAH_20231003142343.pdf

Conditions of Approval

Specialist Review

Mule_23_11_Fed_Com_624H_714H_734H_Sundry_ID_2754517_20231012074811.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CHELSEY GREEN

Signed on: OCT 03, 2023 02:22 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma CityState: OK

Phone: (405) 228-8595

Email address: Chelsey.Green@dvn.com

Field

Representative Name:

Street Address:

City:State:Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 10/12/2023

Signature: Long Vo

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

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.

| | | |
|---|-----------------------------------|---|
| SUBMIT IN TRIPLICATE - Other instructions on page 2 | | 5. Lease Serial No. |
| 1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 6. If Indian, Allottee or Tribe Name |
| 2. Name of Operator | | 7. If Unit of CA/Agreement, Name and/or No. |
| 3a. Address | 3b. Phone No. (include area code) | 8. Well Name and No. |
| 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) | | 9. API Well No. |
| | | 10. Field and Pool or Exploratory Area |
| | | 11. Country or Parish, State |

| 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA | | | | |
|--|---|---|--|---|
| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
| <input 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 type="checkbox"/> Other |
| | <input type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| | <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 recompleat 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 perfonned 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 recompleation 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 detennined that the site is ready for final inspection.)

| | | |
|---|-------|--|
| 14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) | | |
| | Title | |
| Signature | Date | |

| THE SPACE FOR FEDERAL OR STATE OFFICE USE | | |
|---|--------|------|
| Approved by | Title | Date |
| 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 | |

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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Batch Well Data

MULE 23-11 FED COM 714H, US Well Number: 3001549385, Case Number: NMLC0061862, Lease Number: NMLC0061862,
Operator:DEVON ENERGY PRODUCTION COMPANY LP

MULE 23-11 FED COM 624H, US Well Number: 3001549384, Case Number: NMLC0061862, Lease Number: NMLC0061862,
Operator:DEVON ENERGY PRODUCTION COMPANY LP

MULE 23-11 FED COM 734H, US Well Number: 3001549383, Case Number: NMLC061862, Lease Number: NMLC061862,
Operator:DEVON ENERGY PRODUCTION COMPANY LP

CONFIDENTIAL

MULE 23-11 FED COM 714H

1. Geologic Formations

| | | | |
|---------------|-------|------------------------------|-----|
| TVD of target | 12095 | Pilot hole depth | N/A |
| MD at TD: | 23511 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|----------------------|---------------------------|--|----------|
| Rustler | 665 | | |
| Salt | 1090 | | |
| Base of Salt | 4165 | | |
| Delaware | 4387 | | |
| Cherry Canyon | 5365 | | |
| Brushy Canyon | 6676 | | |
| 1st Bone Spring Lime | 8307 | | |
| Bone Spring 1st | 9332 | | |
| Bone Spring 2nd | 9535 | | |
| 3rd Bone Spring Lime | 10433 | | |
| Bone Spring 3rd | 11200 | | |
| Wolfcamp | 11624 | | |
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| | | | |

*H2S, water flows, loss of circulation, abnormal pressures, etc.

MULE 23-11 FED COM 714H

2. Casing Program (Primary Design)

| Hole Size | Csg. Size | Wt (PPF) | Grade | Conn | Casing Interval | | Casing Interval | |
|-----------|-----------|----------|--------|-------------|-----------------|---------|-----------------|----------|
| | | | | | From (MD) | To (MD) | From (TVD) | To (TVD) |
| 14 3/4 | 10 3/4 | 45 1/2 | J-55 | BTC | 0 | 690 | 0 | 690 |
| 9 7/8 | 8 5/8 | 32 | P110EC | Sprint FJ | 0 | 11200 | 0 | 11200 |
| 7 7/8 | 5 1/2 | 17 | P110EC | DWC / C-IS+ | 0 | 23511 | 0 | 12095 |

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

| Casing | # Sks | TOC | Wt. ppg | Yld (ft3/sack) | Slurry Description |
|------------|-------|-------|---------|----------------|--|
| Surface | 424 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 473 | Surf | 13.0 | 2.3 | 2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives |
| | 520 | 6719 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 117 | 9311 | 9 | 3.27 | Lead: Class H / C + additives |
| | 1615 | 11311 | 13.2 | 1.44 | Tail: Class H / C + additives |

| Casing String | % Excess |
|----------------|----------|
| Surface | 50% |
| Intermediate 1 | 30% |
| Prod | 10% |

MULE 23-11 FED COM 714H

4. Pressure Control Equipment (Three String Design)

| BOP installed and tested before drilling which hole? | | Size? | Min. Required WP | Type | | ✓ | Tested to: |
|--|--|---------|------------------|--------------|--|---|--------------------------------|
| Int 1 | | 13-5/8" | 5M | Annular | | X | 50% of rated working pressure |
| | | | | Blind Ram | | X | 5M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| Production | | 13-5/8" | 10M | Annular (5M) | | X | 100% of rated working pressure |
| | | | | Blind Ram | | X | 10M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| | | | | Annular (5M) | | | |
| | | | | Blind Ram | | | |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | | |
| | | | | Other* | | | |
| N | A variance is requested for the use of a diverter on the surface casing. See attached for schematic. | | | | | | |
| Y | A variance is requested to run a 5 M annular on a 10M system | | | | | | |

MULE 23-11 FED COM 714H

5. Mud Program (Three String Design)

| Section | Type | Weight (ppg) |
|--------------|-----------------|--------------|
| Surface | FW Gel | 8.5-9 |
| Intermediate | DBE / Cut Brine | 10-10.5 |
| Production | OBM | 10-10.5 |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| | |
|---|-----------------------------|
| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---|-----------------------------|

6. Logging and Testing Procedures

| Logging, Coring and Testing | |
|-----------------------------|---|
| X | Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| | No logs are planned based on well control or offset log information. |
| | Drill stem test? If yes, explain. |
| | Coring? If yes, explain. |

| Additional logs planned | | Interval |
|-------------------------|-------------|-------------------------|
| | Resistivity | Int. shoe to KOP |
| | Density | Int. shoe to KOP |
| X | CBL | Production casing |
| X | Mud log | Intermediate shoe to TD |
| | PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 6604 |
| Abnormal temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

| | |
|---|---------------------------------|
| N | H ₂ S is present |
| Y | H ₂ S plan attached. |

MULE 23-11 FED COM 714H

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

MULE 23-11 FED COM 624H

1. Geologic Formations

| | | | |
|---------------|-------|------------------------------|-----|
| TVD of target | 11960 | Pilot hole depth | N/A |
| MD at TD: | 23293 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|----------------------|---------------------------|--|----------|
| Rustler | 665 | | |
| Salt | 1090 | | |
| Base of Salt | 4165 | | |
| Delaware | 4387 | | |
| Cherry Canyon | 5365 | | |
| Brushy Canyon | 6676 | | |
| 1st Bone Spring Lime | 8307 | | |
| Bone Spring 1st | 9332 | | |
| Bone Spring 2nd | 9535 | | |
| 3rd Bone Spring Lime | 10433 | | |
| Bone Spring 3rd | 11200 | | |
| Wolfcamp | 11624 | | |
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*H2S, water flows, loss of circulation, abnormal pressures, etc.

MULE 23-11 FED COM 624H

2. Casing Program (Primary Design)

| Hole Size | Csg. Size | Wt (PPF) | Grade | Conn | Casing Interval | | Casing Interval | |
|-----------|-----------|----------|--------|-------------|-----------------|---------|-----------------|----------|
| | | | | | From (MD) | To (MD) | From (TVD) | To (TVD) |
| 14 3/4 | 10 3/4 | 45 1/2 | J-55 | BTC | 0 | 690 | 0 | 690 |
| 9 7/8 | 8 5/8 | 32 | P110EC | Sprint FJ | 0 | 11200 | 0 | 11200 |
| 7 7/8 | 5 1/2 | 17 | P110EC | DWC / C-IS+ | 0 | 23293 | 0 | 11960 |

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

| Casing | # Sks | TOC | Wt. ppg | Yld (ft3/sack) | Slurry Description |
|------------|-------|-------|---------|----------------|--|
| Surface | 424 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 472 | Surf | 13.0 | 2.3 | 2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives |
| | 522 | 6698 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 117 | 9163 | 9 | 3.27 | Lead: Class H / C + additives |
| | 1605 | 11163 | 13.2 | 1.44 | Tail: Class H / C + additives |

| Casing String | % Excess |
|----------------|----------|
| Surface | 50% |
| Intermediate 1 | 30% |
| Prod | 10% |

MULE 23-11 FED COM 624H

4. Pressure Control Equipment (Three String Design)

| BOP installed and tested before drilling which hole? | | Size? | Min. Required WP | Type | | ✓ | Tested to: |
|--|--|---------|------------------|--------------|--|---|-------------------------------|
| Int 1 | | 13-5/8" | 5M | Annular | | X | 50% of rated working pressure |
| | | | | Blind Ram | | X | 5M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| Production | | 13-5/8" | 5M | Annular (5M) | | X | 50% of rated working pressure |
| | | | | Blind Ram | | X | 5M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| | | | | Annular (5M) | | | |
| | | | | Blind Ram | | | |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | | |
| | | | | Other* | | | |
| N | A variance is requested for the use of a diverter on the surface casing. See attached for schematic. | | | | | | |
| Y | A variance is requested to run a 5 M annular on a 10M system | | | | | | |

MULE 23-11 FED COM 624H

5. Mud Program (Three String Design)

| Section | Type | Weight (ppg) |
|--------------|-----------------|--------------|
| Surface | FW Gel | 8.5-9 |
| Intermediate | DBE / Cut Brine | 10-10.5 |
| Production | OBM | 10-10.5 |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| | |
|---|-----------------------------|
| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---|-----------------------------|

6. Logging and Testing Procedures

| Logging, Coring and Testing | |
|-----------------------------|---|
| X | Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| | No logs are planned based on well control or offset log information. |
| | Drill stem test? If yes, explain. |
| | Coring? If yes, explain. |

| Additional logs planned | | Interval |
|-------------------------|-------------|-------------------------|
| | Resistivity | Int. shoe to KOP |
| | Density | Int. shoe to KOP |
| X | CBL | Production casing |
| X | Mud log | Intermediate shoe to TD |
| | PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 6530 |
| Abnormal temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

| | |
|---|---------------------------------|
| N | H ₂ S is present |
| Y | H ₂ S plan attached. |

MULE 23-11 FED COM 624H

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

MULE 23-11 FED COM 734H

1. Geologic Formations

| | | | |
|---------------|-------|------------------------------|-----|
| TVD of target | 12323 | Pilot hole depth | N/A |
| MD at TD: | 23634 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|----------------------|---------------------------|--|----------|
| Rustler | 665 | | |
| Salt | 1090 | | |
| Base of Salt | 4165 | | |
| Delaware | 4387 | | |
| Cherry Canyon | 5365 | | |
| Brushy Canyon | 6676 | | |
| 1st Bone Spring Lime | 8307 | | |
| Bone Spring 1st | 9332 | | |
| Bone Spring 2nd | 9535 | | |
| 3rd Bone Spring Lime | 10433 | | |
| Bone Spring 3rd | 11200 | | |
| Wolfcamp | 11624 | | |
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| | | | |

*H2S, water flows, loss of circulation, abnormal pressures, etc.

MULE 23-11 FED COM 734H

2. Casing Program

| Hole Size | Csg. Size | Wt (PPF) | Grade | Conn | Casing Interval | | Casing Interval | |
|-----------|-----------|----------|--------|-------------|-----------------|---------|-----------------|----------|
| | | | | | From (MD) | To (MD) | From (TVD) | To (TVD) |
| 14 3/4 | 10 3/4 | 45 1/2 | J-55 | BTC | 0 | 690 | 0 | 690 |
| 9 7/8 | 8 5/8 | 32 | P110EC | Sprint FJ | 0 | 11200 | 0 | 11200 |
| 7 7/8 | 5 1/2 | 17 | P110EC | DWC / C-IS+ | 0 | 23634 | 0 | 12323 |

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

| Casing | # Sks | TOC | Wt. ppg | Yld (ft3/sack) | Slurry Description |
|------------|-------|-------|---------|----------------|--|
| Surface | 424 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 472 | Surf | 13.0 | 2.3 | 2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives |
| | 522 | 6705 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 117 | 9486 | 9 | 3.27 | Lead: Class H / C + additives |
| | 1608 | 11486 | 13.2 | 1.44 | Tail: Class H / C + additives |

| Casing String | % Excess |
|----------------|----------|
| Surface | 50% |
| Intermediate 1 | 30% |
| Prod | 10% |

MULE 23-11 FED COM 734H

4. Pressure Control Equipment (Three String Design)

| BOP installed and tested before drilling which hole? | | Size? | Min. Required WP | Type | | ✓ | Tested to: |
|--|--|---------|------------------|--------------|--|---|--------------------------------|
| Int 1 | | 13-5/8" | 5M | Annular | | X | 50% of rated working pressure |
| | | | | Blind Ram | | X | 5M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| Production | | 13-5/8" | 10M | Annular (5M) | | X | 100% of rated working pressure |
| | | | | Blind Ram | | X | 10M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| | | | | Annular (5M) | | | |
| | | | | Blind Ram | | | |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | | |
| | | | | Other* | | | |
| N | A variance is requested for the use of a diverter on the surface casing. See attached for schematic. | | | | | | |
| Y | A variance is requested to run a 5 M annular on a 10M system | | | | | | |

MULE 23-11 FED COM 734H

5. Mud Program (Three String Design)

| Section | Type | Weight (ppg) |
|--------------|-----------------|--------------|
| Surface | FW Gel | 8.5-9 |
| Intermediate | DBE / Cut Brine | 10-10.5 |
| Production | OBM | 10-10.5 |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| | |
|---|-----------------------------|
| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---|-----------------------------|

6. Logging and Testing Procedures

| Logging, Coring and Testing | |
|-----------------------------|---|
| X | Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| | No logs are planned based on well control or offset log information. |
| | Drill stem test? If yes, explain. |
| | Coring? If yes, explain. |

| Additional logs planned | | Interval |
|-------------------------|-------------|-------------------------|
| | Resistivity | Int. shoe to KOP |
| | Density | Int. shoe to KOP |
| X | CBL | Production casing |
| X | Mud log | Intermediate shoe to TD |
| | PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 6728 |
| Abnormal temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

| | |
|---|---------------------------------|
| N | H ₂ S is present |
| Y | H ₂ S plan attached. |

MULE 23-11 FED COM 734H

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

Connection Data Sheet

| OD (in.) | WEIGHT (lbs./ft.) | WALL (in.) | GRADE | DRIFT (in.) | RBW% | CONNECTION |
|----------|------------------------------------|------------|-------------|-------------|------|---------------|
| 5.500 | Nominal: 17.00 Plain End: 16.89 | 0.304 | VST P110 EC | 4.767 | 87.5 | DWC/C-IS PLUS |

PIPE PROPERTIES

| | | |
|-----------------------|---------|--------|
| Nominal OD | 5.500 | in. |
| Nominal ID | 4.892 | in. |
| Nominal Area | 4.962 | sq.in. |
| Grade Type | API 5CT | |
| Min. Yield Strength | 125 | ksi |
| Max. Yield Strength | 140 | ksi |
| Min. Tensile Strength | 135 | ksi |
| Yield Strength | 620 | klb |
| Ultimate Strength | 670 | klb |
| Min. Internal Yield | 12,090 | psi |
| *High Collapse* | 8,840 | psi |

CONNECTION PROPERTIES

| | |
|------------------------------|------------------|
| Connection Type | Semi-Premium T&C |
| Connection OD (nom) | 6.300 in. |
| Connection ID (nom) | 4.892 in. |
| Make-Up Loss | 4.125 in. |
| Coupling Length | 9.250 in. |
| Critical Cross Section | 4.962 sq.in. |
| Tension Efficiency | 100.0% of pipe |
| Compression Efficiency | 100.0% of pipe |
| Internal Pressure Efficiency | 100.0% of pipe |
| External Pressure Efficiency | 100.0% of pipe |

CONNECTION PERFORMANCES

| | | |
|---------------------------------------|--------|----------|
| Yield Strength | 620 | klb |
| Parting Load | 670 | klb |
| Compression Rating | 620 | klb |
| Min. Internal Yield | 12,090 | psi |
| *High Collapse* | 8,840 | psi |
| Maximum Uniaxial Bend Rating | 104.2 | °/100 ft |
| Ref String Length w 1.4 Design Factor | 26,050 | ft |

FIELD TORQUE VALUES

| | | |
|-------------------------------|--------|--------|
| Min. Make-up Torque | 13,400 | ft.lbs |
| Opti. Make-up Torque | 14,350 | ft.lbs |
| Max. Make-up Torque | 15,300 | ft.lbs |
| Min. Shoulder Torque | 1,340 | ft.lbs |
| Max. Shoulder Torque | 10,720 | ft.lbs |
| Max. Delta Turn | 0.200 | Turns |
| Max Operational Torque | 17,200 | ft.lbs |
| Maximum Torsional Value (MTV) | 18,920 | ft.lbs |

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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05/23/2023 4:15 PM



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Tech Support E-mail: tech.support@vam-usa.com

DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.
12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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05/23/2023 4:15 PM



Issued on: 16 Dec. 2020 by Logan Van Gorp



Connection Data Sheet

| | | | | | |
|-----------|------------------------------------|-----------|--------|-------------|----------------|
| OD | Weight (lb/ft) | Wall Th. | Grade | Alt. Drift: | Connection |
| 8 5/8 in. | Nominal: 32.00 Plain End: 31.13 | 0.352 in. | P110EC | 7.875 in. | VAM® SPRINT-FJ |

| PIPE PROPERTIES | | |
|--------------------------------|------------|-------|
| Nominal OD | 8.625 | in. |
| Nominal ID | 7.921 | in. |
| Nominal Cross Section Area | 9.149 | sqin. |
| Grade Type | High Yield | |
| Min. Yield Strength | 125 | ksi |
| Max. Yield Strength | 140 | ksi |
| Min. Ultimate Tensile Strength | 135 | ksi |

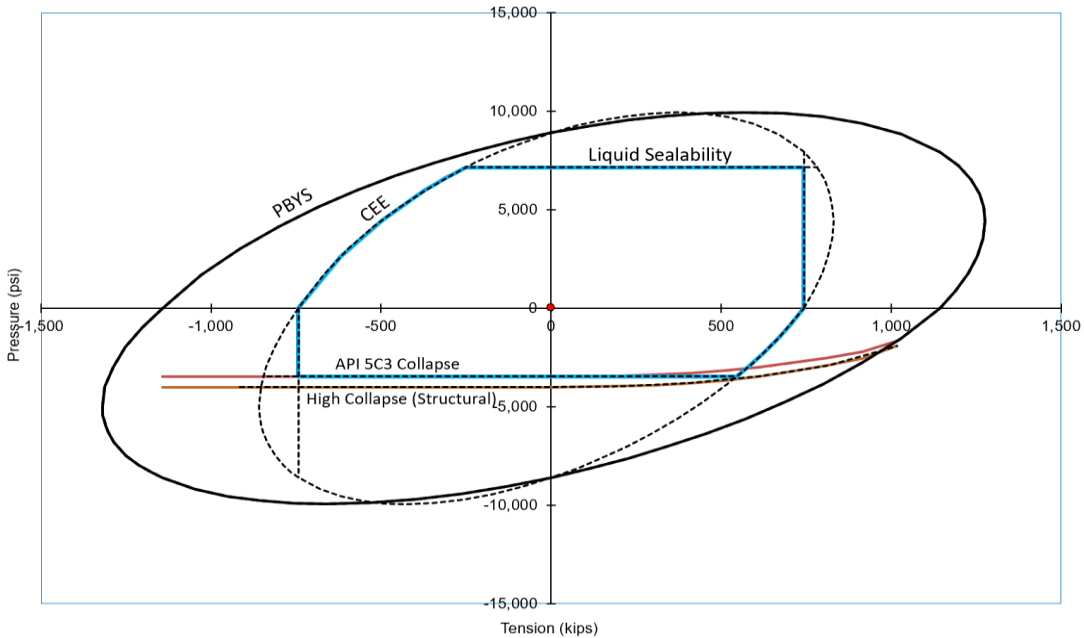
| CONNECTION PROPERTIES | | |
|------------------------------|-----------------------------|-----------|
| Connection Type | Semi-Premium Integral Flush | |
| Connection OD (nom): | 8.665 | in. |
| Connection ID (nom): | 7.954 | in. |
| Make-Up Loss | 2.614 | in. |
| Critical Cross Section | 6.038 | sqin. |
| Tension Efficiency | 65.0 | % of pipe |
| Compression Efficiency | 65.0 | % of pipe |
| Internal Pressure Efficiency | 80.0 | % of pipe |
| External Pressure Efficiency | 100 | % of pipe |

| CONNECTION PERFORMANCES | | |
|--------------------------------|-------|---------|
| Tensile Yield Strength | 744 | klb |
| Compression Resistance | 744 | klb |
| Max. Internal Pressure | 7,150 | psi |
| Structural Collapse Resistance | 4,000 | psi |
| Max. Bending with Sealability | 41 | °/100ft |
| Max. Bending with Sealability | 10 | °/100ft |

* 87.5% RBW

| TORQUE VALUES | | |
|------------------------------------|--------|-------|
| Min. Make-up torque | 15,000 | ft.lb |
| Opt. Make-up torque | 16,500 | ft.lb |
| Max. Make-up torque | 18,000 | ft.lb |
| Max. Torque with Sealability (MTS) | TBD | ft.lb |

VAM® SPRINT-FJ is a semi-premium flush connection designed for shale applications, where maximum clearance and high tension capacity are required for intermediate casing strings.



canada@vamfieldservice.com
usa@vamfieldservice.com
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Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

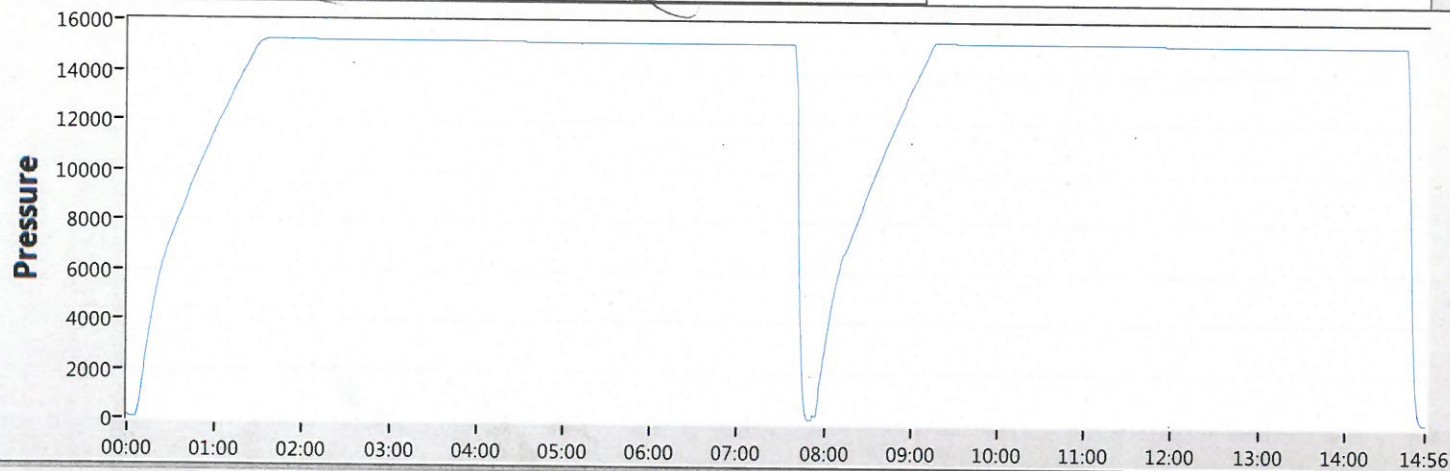
1. Well Control Response:
 1. Primary barrier remains fluid
 2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
 - a) Annular first
 - b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third

Cactus
Wellhead

2-9-17
E Bell

80.7 °F

15:49



50

Date 02-09-17

Tested By E.BELL

Transducer bay2

Transducer Serial 181504

Calibration Date 9/6/15

| | Job# | Part# | Serial# | Description | Test Pressure |
|---|-----------------|--------|-------------|---------------------------------------|---------------|
| 1 | TRJ0006341-0007 | 116966 | TRJ6341-7-1 | ADPT,DRLG,CW,MBU-3T,13-5/8 10M | 15000 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | TRANSDUCER CALIBRATION DUE 03/13/2017 | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |



Start



Stop



Zero



Config



Save



Print

EXIT



10-3/4" 45.50# 0.400" J-55

Dimensions (Nominal)

| | | |
|------------------|--------|--------|
| Outside Diameter | 10.750 | in. |
| Wall | 0.400 | in. |
| Inside Diameter | 9.950 | in. |
| Drift | 9.875 | in. |
| | | |
| Weight, T&C | 45.500 | lbs/ft |
| Weight, PE | 44.260 | lbs/ft |

Internal Yield Pressure at Minimum Yield

| | | |
|----------|------|-----|
| Collapse | 2090 | psi |
|----------|------|-----|

Internal Yields Pressure

| | | |
|-----|------|-----|
| PE | 3580 | psi |
| STC | 3580 | psi |
| BTC | 3580 | psi |

| | | |
|---------------------------|-----|----------|
| Yield Strength, Pipe Body | 715 | 1000 lbs |
|---------------------------|-----|----------|

Joint Strength, STC

| | | |
|-----|-----|----------|
| STC | 493 | 1000 lbs |
| BTC | 796 | 1000 lbs |

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

| Well Name | Well Number | US Well Number | Lease Number | Case Number | Operator |
|----------------|-------------|----------------|--------------|-------------|----------|
| MULE 23-11 FED | 624H | 3001549384 | NMLC0061862 | NMLC0061862 | DEVON |
| MULE 23-11 FED | 734H | 3001549383 | NMLC061862 | NMLC061862 | DEVON |
| MULE 23-11 FED | 714H | 3001549385 | NMLC0061862 | NMLC0061862 | DEVON |

Notice of Intent

Sundry ID: 2754517

Type of Submission: Notice of Intent

Date Sundry Submitted: 10/03/2023

Date proposed operation will begin: 10/02/2023

Type of Action: APD Change

Time Sundry Submitted: 02:33

Procedure Description: ENGINEERING ONLY Devon Energy Production Company, L.P. respectfully requests approval for optional surface casing/drilling plan of 10-3/4" surface casing inside of 14-3/4" surface hole at previously permitted set depths. Devon Energy Production Company, L.P. will circulate class C cement to surface behind the 10-3/4" casing. Devon also request an update to the intermediate and production connections and a break test variance. Please see the attached documentation.

NOI Attachments

Procedure Description

- MULE_23_11_FED_COM_714H_20231003142621.pdf
- MULE_23_11_FED_COM_624H_20231003142600.pdf
- MULE_23_11_FED_COM_734H_20231003142536.pdf
- 5.5in_x_17.00lb_P110EC_DWC_C_IS_PLUS___5_23_2023_20231003142454.pdf
- 8.625_32lb_P110EC_SPRINT_FJ_VST_20231003142344.pdf
- break_test_variance_BOP_20231003142344.pdf
- 10.750_45.5_J55_SEAH_20231003142343.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: CHELSEY GREEN

Signed on: OCT 03, 2023 02:22 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Compliance Professional

Street Address: 333 West Sheridan Avenue

City: Oklahoma City **State:** OK

Phone: (405) 228-8595

Email address: Chelsey.Green@dvn.com

Field

Representative Name:

Street Address:

City: **State:** **Zip:**

Phone:

Email address:

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

| | |
|-------------------------|---|
| OPERATOR'S NAME: | Devon Energy Production Company LP |
| LEASE NO.: | NMLC0061862 |
| LOCATION: | Section 23, T.25 S., R.31 E., NMPM |
| COUNTY: | Eddy County, New Mexico |

| | |
|------------------------------|--------------------------------|
| WELL NAME & NO.: | Mule 23-11 Fed Com 624H |
| SURFACE HOLE FOOTAGE: | 965'/N & 751'/E |
| BOTTOM HOLE FOOTAGE: | 20'/N & 770'/E |
| ATS/API ID: | 3001549384 |
| APD ID: | |
| Sundry ID: | 2754517 |

| | |
|------------------------------|--------------------------------|
| WELL NAME & NO.: | Mule 23-11 Fed Com 714H |
| SURFACE HOLE FOOTAGE: | 965'/N & 721'/E |
| BOTTOM HOLE FOOTAGE: | 20'/N & 330'/E |
| ATS/API ID: | 3001549385 |
| APD ID: | |
| Sundry ID: | 2754517 |

| | |
|------------------------------|--------------------------------|
| WELL NAME & NO.: | Mule 23-11 Fed Com 734H |
| SURFACE HOLE FOOTAGE: | 965'/N & 781'/E |
| BOTTOM HOLE FOOTAGE: | 20'/N & 990'/E |
| ATS/API ID: | 3001549383 |
| APD ID: | |
| Sundry ID: | 2754517 |

COA

| | | | |
|-------------------------------|---|---|---|
| H2S | No | | |
| Potash | None | | |
| Cave/Karst Potential | Low | | |
| Cave/Karst Potential | <input type="checkbox"/> Critical | | |
| Variance | <input checked="" type="checkbox"/> None | <input checked="" type="checkbox"/> Flex Hose | <input checked="" type="checkbox"/> Other |
| Wellhead | Conventional and Multibowl | | |
| Other | <input type="checkbox"/> 4 String | Capitan Reef None | <input type="checkbox"/> WIPP |
| Other | Pilot Hole None | <input type="checkbox"/> Open Annulus | |
| Cementing | Contingency Squeeze None | Echo-Meter Int 1 | Primary Cement Squeeze None |
| Special Requirements | <input type="checkbox"/> Water Disposal/Injection | <input checked="" type="checkbox"/> COM | <input type="checkbox"/> Unit |
| Special Requirements | <input checked="" type="checkbox"/> Batch Sundry | | |
| Special Requirements Variance | <input checked="" type="checkbox"/> Break Testing | <input type="checkbox"/> Offline Cementing | <input type="checkbox"/> Casing Clearance |

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4 inch** surface casing shall be set at approximately **900 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. The surface hole shall be **14 3/4 inch** in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of

- six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon at 6676' (522 sxs Class H/C+ additives)**.
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (**Squeeze 473 sxs Class C**)

Operator has proposed to pump down 10-3/4" X 8-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 8-5/8" casing to surface after the second stage BH to verify TOC.

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

Production casing must be kept fluid filled to meet BLM minimum collapse requirement.

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi. Annular which shall be tested to 5000 (5M) psi.**
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 inch intermediate casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.**

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).

- The BLM is to be contacted **(575-361-2822 Eddy County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21-day** intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Batch Sundry:

- Approval shall be for wells with surface, intermediate, and production section within 200' TVD tolerance between shoes above the deepest well shoes set depth.
- Approval shall be for wells with same drill plan design. (Casing depth may vary and cement volumes may vary per Condition of Approval.)
- Approval shall be for wells within the same drill pad.
- Cement excess shall be a minimum of 25%, adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,

(575) 689-5981

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a

digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after

installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR**

part 3170 Subpart 3172.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

LVO 10/12/2023

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**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**6. If Indian, Allottee or Tribe Name
MULTIPLE**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other7. If Unit of CA/Agreement, Name and/or No.
MULTIPLE8. Well Name and No. **MULTIPLE**2. Name of Operator **DEVON ENERGY PRODUCTION COMPANY LP**9. API Well No. **MULTIPLE**3a. Address **333 WEST SHERIDAN AVE, OKLAHOMA CITY,** 3b. Phone No. (include area code)
(405) 235-361110. Field and Pool or Exploratory Area
MULTIPLE4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
MULTIPLE11. Country or Parish, State
MULTIPLE**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 type="checkbox"/> Other | |
| | <input checked="" type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | | |
| | <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 recompleat 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 recompleat 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 detennined that the site is ready for final inspection.)

ENGINEERING ONLY

Devon Energy Production Company, L.P. respectfully requests approval for optional surface casing/drilling plan of 10-3/4" surface casing inside of 14-3/4" surface hole at previously permitted set depths. Devon Energy Production Company, L.P. will circulate class C cement to surface behind the 10-3/4 casing. Devon also request an update to the intermediate and production connections and a break test variance. Please see the attached documentation.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
CHELSEY GREEN / Ph: (405) 228-8595

Title **Regulatory Compliance Professional**

Signature

Date

10/03/2023**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

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

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)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law 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, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the 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., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

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 St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Batch Well Data

MULE 23-11 FED COM 714H, US Well Number: 3001549385, Case Number: NMLC0061862, Lease Number: NMLC0061862,
Operator:DEVON ENERGY PRODUCTION COMPANY LP

MULE 23-11 FED COM 624H, US Well Number: 3001549384, Case Number: NMLC0061862, Lease Number: NMLC0061862,
Operator:DEVON ENERGY PRODUCTION COMPANY LP

MULE 23-11 FED COM 734H, US Well Number: 3001549383, Case Number: NMLC061862, Lease Number: NMLC061862,
Operator:DEVON ENERGY PRODUCTION COMPANY LP

CONFIDENTIAL

MULE 23-11 FED COM 714H

1. Geologic Formations

| | | | |
|---------------|-------|------------------------------|-----|
| TVD of target | 12095 | Pilot hole depth | N/A |
| MD at TD: | 23511 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|----------------------|---------------------------|--|----------|
| Rustler | 665 | | |
| Salt | 1090 | | |
| Base of Salt | 4165 | | |
| Delaware | 4387 | | |
| Cherry Canyon | 5365 | | |
| Brushy Canyon | 6676 | | |
| 1st Bone Spring Lime | 8307 | | |
| Bone Spring 1st | 9332 | | |
| Bone Spring 2nd | 9535 | | |
| 3rd Bone Spring Lime | 10433 | | |
| Bone Spring 3rd | 11200 | | |
| Wolfcamp | 11624 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

*H2S, water flows, loss of circulation, abnormal pressures, etc.

MULE 23-11 FED COM 714H

2. Casing Program (Primary Design)

| Hole Size | Csg. Size | Wt (PPF) | Grade | Conn | Casing Interval | | Casing Interval | |
|-----------|-----------|----------|--------|-------------|-----------------|---------|-----------------|----------|
| | | | | | From (MD) | To (MD) | From (TVD) | To (TVD) |
| 14 3/4 | 10 3/4 | 45 1/2 | J-55 | BTC | 0 | 690 | 0 | 690 |
| 9 7/8 | 8 5/8 | 32 | P110EC | Sprint FJ | 0 | 11200 | 0 | 11200 |
| 7 7/8 | 5 1/2 | 17 | P110EC | DWC / C-IS+ | 0 | 23511 | 0 | 12095 |

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

| Casing | # Sks | TOC | Wt. ppg | Yld (ft3/sack) | Slurry Description |
|------------|-------|-------|---------|----------------|--|
| Surface | 424 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 473 | Surf | 13.0 | 2.3 | 2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives |
| | 520 | 6719 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 117 | 9311 | 9 | 3.27 | Lead: Class H / C + additives |
| | 1615 | 11311 | 13.2 | 1.44 | Tail: Class H / C + additives |

| Casing String | % Excess |
|----------------|----------|
| Surface | 50% |
| Intermediate 1 | 30% |
| Prod | 10% |

MULE 23-11 FED COM 714H

4. Pressure Control Equipment (Three String Design)

| BOP installed and tested before drilling which hole? | | Size? | Min. Required WP | Type | | ✓ | Tested to: |
|--|--|---------|------------------|--------------|--|---|--------------------------------|
| Int 1 | | 13-5/8" | 5M | Annular | | X | 50% of rated working pressure |
| | | | | Blind Ram | | X | 5M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| Production | | 13-5/8" | 10M | Annular (5M) | | X | 100% of rated working pressure |
| | | | | Blind Ram | | X | 10M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| | | | | Annular (5M) | | | |
| | | | | Blind Ram | | | |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | | |
| | | | | Other* | | | |
| N | A variance is requested for the use of a diverter on the surface casing. See attached for schematic. | | | | | | |
| Y | A variance is requested to run a 5 M annular on a 10M system | | | | | | |

MULE 23-11 FED COM 714H

5. Mud Program (Three String Design)

| Section | Type | Weight (ppg) |
|--------------|-----------------|--------------|
| Surface | FW Gel | 8.5-9 |
| Intermediate | DBE / Cut Brine | 10-10.5 |
| Production | OBM | 10-10.5 |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| | |
|---|-----------------------------|
| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---|-----------------------------|

6. Logging and Testing Procedures

| Logging, Coring and Testing | |
|-----------------------------|---|
| X | Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| | No logs are planned based on well control or offset log information. |
| | Drill stem test? If yes, explain. |
| | Coring? If yes, explain. |

| Additional logs planned | | Interval |
|-------------------------|-------------|-------------------------|
| | Resistivity | Int. shoe to KOP |
| | Density | Int. shoe to KOP |
| X | CBL | Production casing |
| X | Mud log | Intermediate shoe to TD |
| | PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 6604 |
| Abnormal temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

| | |
|---|---------------------------------|
| N | H ₂ S is present |
| Y | H ₂ S plan attached. |

MULE 23-11 FED COM 714H

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

MULE 23-11 FED COM 624H

1. Geologic Formations

| | | | |
|---------------|-------|------------------------------|-----|
| TVD of target | 11960 | Pilot hole depth | N/A |
| MD at TD: | 23293 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|----------------------|---------------------------|--|----------|
| Rustler | 665 | | |
| Salt | 1090 | | |
| Base of Salt | 4165 | | |
| Delaware | 4387 | | |
| Cherry Canyon | 5365 | | |
| Brushy Canyon | 6676 | | |
| 1st Bone Spring Lime | 8307 | | |
| Bone Spring 1st | 9332 | | |
| Bone Spring 2nd | 9535 | | |
| 3rd Bone Spring Lime | 10433 | | |
| Bone Spring 3rd | 11200 | | |
| Wolfcamp | 11624 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

*H2S, water flows, loss of circulation, abnormal pressures, etc.

MULE 23-11 FED COM 624H

2. Casing Program (Primary Design)

| Hole Size | Csg. Size | Wt (PPF) | Grade | Conn | Casing Interval | | Casing Interval | |
|-----------|-----------|----------|--------|-------------|-----------------|---------|-----------------|----------|
| | | | | | From (MD) | To (MD) | From (TVD) | To (TVD) |
| 14 3/4 | 10 3/4 | 45 1/2 | J-55 | BTC | 0 | 690 | 0 | 690 |
| 9 7/8 | 8 5/8 | 32 | P110EC | Sprint FJ | 0 | 11200 | 0 | 11200 |
| 7 7/8 | 5 1/2 | 17 | P110EC | DWC / C-IS+ | 0 | 23293 | 0 | 11960 |

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

| Casing | # Sks | TOC | Wt. ppg | Yld (ft3/sack) | Slurry Description |
|------------|-------|-------|---------|----------------|--|
| Surface | 424 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 472 | Surf | 13.0 | 2.3 | 2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives |
| | 522 | 6698 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 117 | 9163 | 9 | 3.27 | Lead: Class H / C + additives |
| | 1605 | 11163 | 13.2 | 1.44 | Tail: Class H / C + additives |

| Casing String | % Excess |
|----------------|----------|
| Surface | 50% |
| Intermediate 1 | 30% |
| Prod | 10% |

MULE 23-11 FED COM 624H

4. Pressure Control Equipment (Three String Design)

| BOP installed and tested before drilling which hole? | | Size? | Min. Required WP | Type | | ✓ | Tested to: |
|--|--|---------|------------------|--------------|--|---|-------------------------------|
| Int 1 | | 13-5/8" | 5M | Annular | | X | 50% of rated working pressure |
| | | | | Blind Ram | | X | 5M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| Production | | 13-5/8" | 5M | Annular (5M) | | X | 50% of rated working pressure |
| | | | | Blind Ram | | X | 5M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| | | | | Annular (5M) | | | |
| | | | | Blind Ram | | | |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | | |
| | | | | Other* | | | |
| N | A variance is requested for the use of a diverter on the surface casing. See attached for schematic. | | | | | | |
| Y | A variance is requested to run a 5 M annular on a 10M system | | | | | | |

MULE 23-11 FED COM 624H

5. Mud Program (Three String Design)

| Section | Type | Weight (ppg) |
|--------------|-----------------|--------------|
| Surface | FW Gel | 8.5-9 |
| Intermediate | DBE / Cut Brine | 10-10.5 |
| Production | OBM | 10-10.5 |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| | |
|---|-----------------------------|
| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---|-----------------------------|

6. Logging and Testing Procedures**Logging, Coring and Testing**

| | |
|---|---|
| X | Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| | No logs are planned based on well control or offset log information. |
| | Drill stem test? If yes, explain. |
| | Coring? If yes, explain. |

| Additional logs planned | | Interval |
|-------------------------|-------------|-------------------------|
| | Resistivity | Int. shoe to KOP |
| | Density | Int. shoe to KOP |
| X | CBL | Production casing |
| X | Mud log | Intermediate shoe to TD |
| | PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 6530 |
| Abnormal temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

| | |
|---|---------------------------------|
| N | H ₂ S is present |
| Y | H ₂ S plan attached. |

MULE 23-11 FED COM 624H

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

MULE 23-11 FED COM 734H

1. Geologic Formations

| | | | |
|---------------|-------|------------------------------|-----|
| TVD of target | 12323 | Pilot hole depth | N/A |
| MD at TD: | 23634 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|----------------------|---------------------------|--|----------|
| Rustler | 665 | | |
| Salt | 1090 | | |
| Base of Salt | 4165 | | |
| Delaware | 4387 | | |
| Cherry Canyon | 5365 | | |
| Brushy Canyon | 6676 | | |
| 1st Bone Spring Lime | 8307 | | |
| Bone Spring 1st | 9332 | | |
| Bone Spring 2nd | 9535 | | |
| 3rd Bone Spring Lime | 10433 | | |
| Bone Spring 3rd | 11200 | | |
| Wolfcamp | 11624 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

*H2S, water flows, loss of circulation, abnormal pressures, etc.

MULE 23-11 FED COM 734H

2. Casing Program

| Hole Size | Csg. Size | Wt (PPF) | Grade | Conn | Casing Interval | | Casing Interval | |
|-----------|-----------|----------|--------|-------------|-----------------|---------|-----------------|----------|
| | | | | | From (MD) | To (MD) | From (TVD) | To (TVD) |
| 14 3/4 | 10 3/4 | 45 1/2 | J-55 | BTC | 0 | 690 | 0 | 690 |
| 9 7/8 | 8 5/8 | 32 | P110EC | Sprint FJ | 0 | 11200 | 0 | 11200 |
| 7 7/8 | 5 1/2 | 17 | P110EC | DWC / C-IS+ | 0 | 23634 | 0 | 12323 |

•All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

| Casing | # Sks | TOC | Wt. ppg | Yld (ft3/sack) | Slurry Description |
|------------|-------|-------|---------|----------------|--|
| Surface | 424 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 472 | Surf | 13.0 | 2.3 | 2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives |
| | 522 | 6705 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 117 | 9486 | 9 | 3.27 | Lead: Class H / C + additives |
| | 1608 | 11486 | 13.2 | 1.44 | Tail: Class H / C + additives |

| Casing String | % Excess |
|----------------|----------|
| Surface | 50% |
| Intermediate 1 | 30% |
| Prod | 10% |

MULE 23-11 FED COM 734H

4. Pressure Control Equipment (Three String Design)

| BOP installed and tested before drilling which hole? | | Size? | Min. Required WP | Type | | ✓ | Tested to: |
|--|--|---------|------------------|--------------|--|---|--------------------------------|
| Int 1 | | 13-5/8" | 5M | Annular | | X | 50% of rated working pressure |
| | | | | Blind Ram | | X | 5M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| Production | | 13-5/8" | 10M | Annular (5M) | | X | 100% of rated working pressure |
| | | | | Blind Ram | | X | 10M |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | X | |
| | | | | Other* | | | |
| | | | | Annular (5M) | | | |
| | | | | Blind Ram | | | |
| | | | | Pipe Ram | | | |
| | | | | Double Ram | | | |
| | | | | Other* | | | |
| N | A variance is requested for the use of a diverter on the surface casing. See attached for schematic. | | | | | | |
| Y | A variance is requested to run a 5 M annular on a 10M system | | | | | | |

MULE 23-11 FED COM 734H

5. Mud Program (Three String Design)

| Section | Type | Weight (ppg) |
|--------------|-----------------|--------------|
| Surface | FW Gel | 8.5-9 |
| Intermediate | DBE / Cut Brine | 10-10.5 |
| Production | OBM | 10-10.5 |

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

| | |
|---|-----------------------------|
| What will be used to monitor the loss or gain of fluid? | PVT/Pason/Visual Monitoring |
|---|-----------------------------|

6. Logging and Testing Procedures

| Logging, Coring and Testing | |
|-----------------------------|---|
| X | Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM. |
| | No logs are planned based on well control or offset log information. |
| | Drill stem test? If yes, explain. |
| | Coring? If yes, explain. |

| Additional logs planned | | Interval |
|-------------------------|-------------|-------------------------|
| | Resistivity | Int. shoe to KOP |
| | Density | Int. shoe to KOP |
| X | CBL | Production casing |
| X | Mud log | Intermediate shoe to TD |
| | PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 6728 |
| Abnormal temperature | No |

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

| | |
|---|---------------------------------|
| N | H ₂ S is present |
| Y | H ₂ S plan attached. |

MULE 23-11 FED COM 734H

8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
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NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
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- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan
 Other, describe

Connection Data Sheet

| OD (in.) | WEIGHT (lbs./ft.) | WALL (in.) | GRADE | DRIFT (in.) | RBW% | CONNECTION |
|----------|------------------------------------|------------|-------------|-------------|------|---------------|
| 5.500 | Nominal: 17.00 Plain End: 16.89 | 0.304 | VST P110 EC | 4.767 | 87.5 | DWC/C-IS PLUS |

PIPE PROPERTIES

| | | |
|-----------------------|---------|--------|
| Nominal OD | 5.500 | in. |
| Nominal ID | 4.892 | in. |
| Nominal Area | 4.962 | sq.in. |
| Grade Type | API 5CT | |
| Min. Yield Strength | 125 | ksi |
| Max. Yield Strength | 140 | ksi |
| Min. Tensile Strength | 135 | ksi |
| Yield Strength | 620 | klb |
| Ultimate Strength | 670 | klb |
| Min. Internal Yield | 12,090 | psi |
| *High Collapse* | 8,840 | psi |

CONNECTION PROPERTIES

| | |
|------------------------------|------------------|
| Connection Type | Semi-Premium T&C |
| Connection OD (nom) | 6.300 in. |
| Connection ID (nom) | 4.892 in. |
| Make-Up Loss | 4.125 in. |
| Coupling Length | 9.250 in. |
| Critical Cross Section | 4.962 sq.in. |
| Tension Efficiency | 100.0% of pipe |
| Compression Efficiency | 100.0% of pipe |
| Internal Pressure Efficiency | 100.0% of pipe |
| External Pressure Efficiency | 100.0% of pipe |

CONNECTION PERFORMANCES

| | | |
|---------------------------------------|--------|----------|
| Yield Strength | 620 | klb |
| Parting Load | 670 | klb |
| Compression Rating | 620 | klb |
| Min. Internal Yield | 12,090 | psi |
| *High Collapse* | 8,840 | psi |
| Maximum Uniaxial Bend Rating | 104.2 | °/100 ft |
| Ref String Length w 1.4 Design Factor | 26,050 | ft |

FIELD TORQUE VALUES

| | | |
|-------------------------------|--------|--------|
| Min. Make-up Torque | 13,400 | ft.lbs |
| Opti. Make-up Torque | 14,350 | ft.lbs |
| Max. Make-up Torque | 15,300 | ft.lbs |
| Min. Shoulder Torque | 1,340 | ft.lbs |
| Max. Shoulder Torque | 10,720 | ft.lbs |
| Max. Delta Turn | 0.200 | Turns |
| Max Operational Torque | 17,200 | ft.lbs |
| Maximum Torsional Value (MTV) | 18,920 | ft.lbs |

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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Tech Support E-mail: tech.support@vam-usa.com

DWC Connection Data Notes:

1. DWC connections are available with a seal ring (SR) option.
2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
3. Connection performance properties are based on nominal pipe body and connection dimensions.
4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
7. Bending efficiency is equal to the compression efficiency.
8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
9. Connection yield torque is not to be exceeded.
10. Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
11. DWC connections will accommodate API standard drift diameters.
12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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Issued on: 16 Dec. 2020 by Logan Van Gorp



Connection Data Sheet

| | | | | | |
|-----------|------------------------------------|-----------|--------|-------------|----------------|
| OD | Weight (lb/ft) | Wall Th. | Grade | Alt. Drift: | Connection |
| 8 5/8 in. | Nominal: 32.00 Plain End: 31.13 | 0.352 in. | P110EC | 7.875 in. | VAM® SPRINT-FJ |

| PIPE PROPERTIES | | |
|--------------------------------|------------|-------|
| Nominal OD | 8.625 | in. |
| Nominal ID | 7.921 | in. |
| Nominal Cross Section Area | 9.149 | sqin. |
| Grade Type | High Yield | |
| Min. Yield Strength | 125 | ksi |
| Max. Yield Strength | 140 | ksi |
| Min. Ultimate Tensile Strength | 135 | ksi |

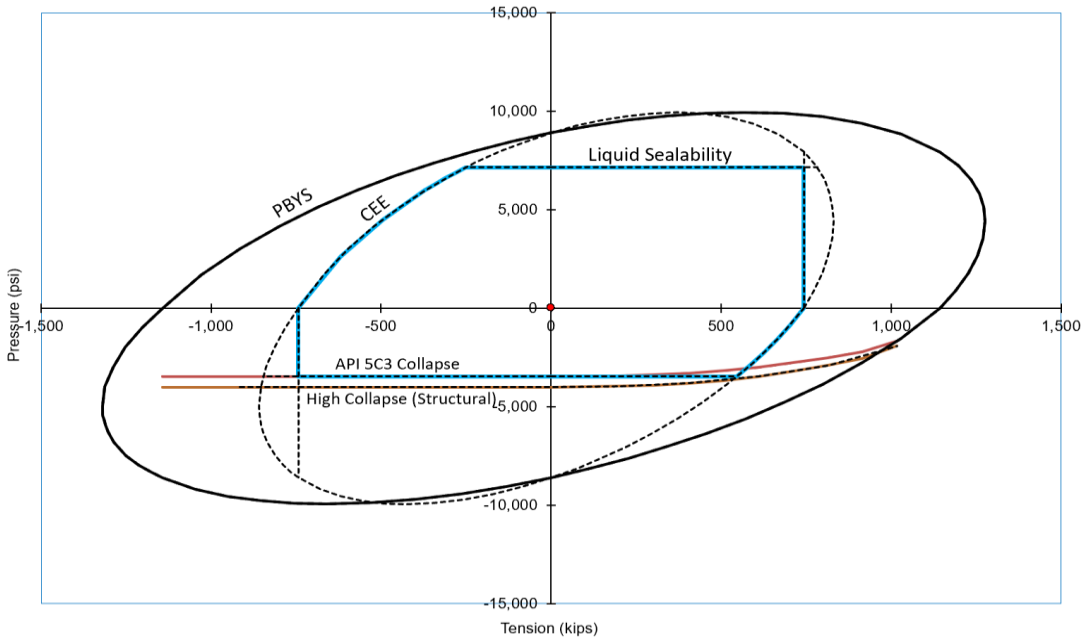
| CONNECTION PROPERTIES | | |
|------------------------------|-----------------------------|-----------|
| Connection Type | Semi-Premium Integral Flush | |
| Connection OD (nom): | 8.665 | in. |
| Connection ID (nom): | 7.954 | in. |
| Make-Up Loss | 2.614 | in. |
| Critical Cross Section | 6.038 | sqin. |
| Tension Efficiency | 65.0 | % of pipe |
| Compression Efficiency | 65.0 | % of pipe |
| Internal Pressure Efficiency | 80.0 | % of pipe |
| External Pressure Efficiency | 100 | % of pipe |

| CONNECTION PERFORMANCES | | |
|--------------------------------|-------|---------|
| Tensile Yield Strength | 744 | klb |
| Compression Resistance | 744 | klb |
| Max. Internal Pressure | 7,150 | psi |
| Structural Collapse Resistance | 4,000 | psi |
| Max. Bending with Sealability | 41 | °/100ft |
| Max. Bending with Sealability | 10 | °/100ft |

* 87.5% RBW

| TORQUE VALUES | | |
|------------------------------------|--------|-------|
| Min. Make-up torque | 15,000 | ft.lb |
| Opt. Make-up torque | 16,500 | ft.lb |
| Max. Make-up torque | 18,000 | ft.lb |
| Max. Torque with Sealability (MTS) | TBD | ft.lb |

VAM® SPRINT-FJ is a semi-premium flush connection designed for shale applications, where maximum clearance and high tension capacity are required for intermediate casing strings.



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mexico@vamfieldservice.com
brazil@vamfieldservice.com

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

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nigeria@vamfieldservice.com
angola@vamfieldservice.com

china@vamfieldservice.com
baku@vamfieldservice.com
singapore@vamfieldservice.com
australia@vamfieldservice.com

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



Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

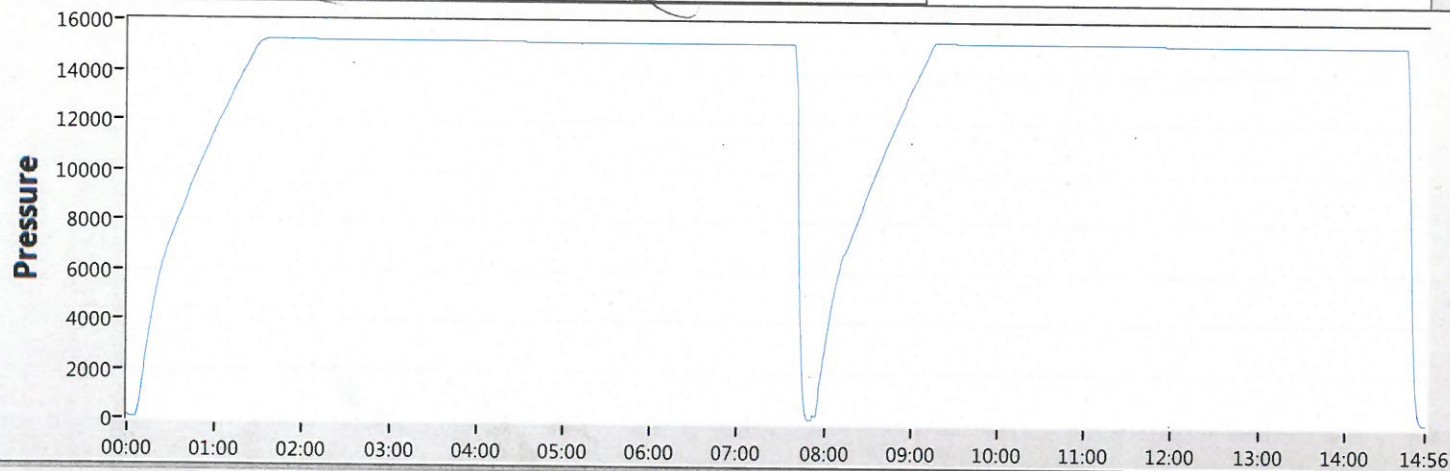
1. Well Control Response:
 1. Primary barrier remains fluid
 2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
 - a) Annular first
 - b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third

Cactus
Wellhead

2-9-17
E Bell

80.7 °F

15:49



50

Date 02-09-17

Tested By E.BELL

Transducer bay2

Transducer Serial 181504

Calibration Date 9/6/15

| | Job# | Part# | Serial# | Description | Test Pressure |
|---|-----------------|--------|-------------|---------------------------------------|---------------|
| 1 | TRJ0006341-0007 | 116966 | TRJ6341-7-1 | ADPT,DRLG,CW,MBU-3T,13-5/8 10M | 15000 |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | TRANSDUCER CALIBRATION DUE 03/13/2017 | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

TRANSDUCER CALIBRATION DUE 03/13/2017



Start



Stop



Zero



Config



Save



Print

EXIT



10-3/4" 45.50# 0.400" J-55

Dimensions (Nominal)

| | | |
|------------------|--------|--------|
| Outside Diameter | 10.750 | in. |
| Wall | 0.400 | in. |
| Inside Diameter | 9.950 | in. |
| Drift | 9.875 | in. |
| | | |
| Weight, T&C | 45.500 | lbs/ft |
| Weight, PE | 44.260 | lbs/ft |

Internal Yield Pressure at Minimum Yield

| | | |
|----------|------|-----|
| Collapse | 2090 | psi |
|----------|------|-----|

Internal Yields Pressure

| | | |
|-----|------|-----|
| PE | 3580 | psi |
| STC | 3580 | psi |
| BTC | 3580 | psi |

| | | |
|---------------------------|-----|----------|
| Yield Strength, Pipe Body | 715 | 1000 lbs |
|---------------------------|-----|----------|

Joint Strength, STC

| | | |
|-----|-----|----------|
| STC | 493 | 1000 lbs |
| BTC | 796 | 1000 lbs |

Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

23-25-31-A Sundry ID 2754517 Mule 23-11 Fed Com 624H.xlsm

Mule 23-11 Fed Com 624H

| 10 3/4 | surface csg in a | | 14 3/4 | inch hole. | | Design Factors | | | | Surface | | |
|--|------------------|---------|----------|------------|----------|----------------|---------|--------|-----|---------|------|-----------|
| Segment | #/ft | Grade | | Coupling | Body | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 45.50 | | j 55 | btc | 17.47 | 4.97 | 0.59 | 900 | 9 | 0.98 | 9.38 | 40,950 |
| "B" | | | | btc | | | | 0 | | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500 | | | | Tail Cmt | does not | circ to sfc. | Totals: | 900 | | | | 40,950 |
| Comparison of Proposed to Minimum Required Cement Volumes | | | | | | | | | | | | |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | | | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cplg |
| 14 3/4 | 0.5563 | 424 | 611 | 501 | 22 | 9.00 | 3645 | 5M | | | | 1.50 |
| Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK. | | | | | | | | | | | | |
| Site plot (page racks S or F) as per O.D. 131 D 3 L not found | | | | | | | | | | | | |

| 8 5/8 | | casing inside the | | 10 3/4 | | Design Factors | | | | Int 1 | | |
|---|----------------|-------------------|------------------|---------------|------------------|-----------------|-----------|------------|----------------------|-------|--------------------|----------|
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 32.00 | | p 110 | vam sprint fj | 2.08 | 0.65 | 1.1 | 11,200 | 1 | 1.84 | 1.10 | 358,400 |
| "B" | | | | | | | | | 0 | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | | Totals: | 11,200 | | | 358,400 |
| The cement volume(s) are intended to achieve a top of | | | | | | | | 0 | ft from surface or a | | 900 | overlap. |
| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | | | Min Dist Hole-Cplg | |
| 9 7/8 | 0.1261 | 522 | 752 | 1420 | -47 | 10.50 | 3892 | 5M | | | 0.61 | |
| D V Tool(s): | | 6676 | | | | sum of sx | | Σ CuFt | | | Σ%excess | |
| t by stage % : | | 32 | | 28 | | 994 | | 1837 | | | 29 | |
| Class 'C' tail cmt yld > 1.35 | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---------|-------------------|----------|-----------|----------|----------------|-------|---------|-----|----------------------|------|-----------|----------|
| Tail cmt | | | | | | | | | | | | | |
| 5 1/2 | | casing inside the | | 8 5/8 | | Design Factors | | | | Prod 1 | | | |
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | B@s | a-B | a-C | Weight | |
| "A" | 17.00 | | p 110 | dwc/c is+ | 2.69 | 1.15 | 1.63 | 23,293 | 2 | 2.73 | 1.92 | 395,981 | |
| "B" | | | | | | | | 0 | | | | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 2,631 | | | | | | | | Totals: | | 23,293 | | 395,981 | |
| The cement volume(s) are intended to achieve a top of | | | | | | | | 11000 | | ft from surface or a | | 200 | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | | | Min Dist | |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cplg | |
| 7 7/8 | 0.1733 | 1722 | 2694 | 2131 | 26 | 10.50 | | | | | | 0.91 | |
| Class 'C' tail cmt yld > 1.35 | | | | | | | | | | | | | |

| | | | | | | | | | | | |
|--|----------------|----------------|------------------|-----------|------------------|----------------------|-----------|-----------------|-----|-----|--------------------|
| #N/A | | | | | | | | | | | |
| 0 | | | 5 1/2 | | Design Factors | | | <Choose Casing> | | | |
| Segment | #/ft | Grade | Coupling | #N/A | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | | | 0.00 | | | | 0 | | | | 0 |
| "B" | | | 0.00 | | | | 0 | | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | Totals: | 0 | | | 0 |
| Cmt vol calc below includes this csg, TOC intended | | | | | #N/A | ft from surface or a | #N/A | | | | overlap. |
| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | | | Min Dist Hole-Cplg |
| 0 | | #N/A | #N/A | 0 | #N/A | | | | | | |
| #N/A Capitan Reef est top XXXX. | | | | | | | | | | | |

23-25-31-A Sundry ID 2754517 Mule 23-11 Fed Com 714H.xlsm

Mule 23-11 Fed Com 714H

| 10 3/4 | surface csg in a | | 14 3/4 | inch hole. | | Design Factors | | | | Surface | | |
|--|------------------|---------|----------|------------|----------|----------------|---------|--------|-----|---------|------|-----------|
| Segment | #/ft | Grade | | Coupling | Body | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 45.50 | | j 55 | btc | 17.47 | 4.97 | 0.59 | 900 | 9 | 0.98 | 9.38 | 40,950 |
| "B" | | | | btc | | | | 0 | | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500 | | | | Tail Cmt | does not | circ to sfc. | Totals: | 900 | | | | 40,950 |
| Comparison of Proposed to Minimum Required Cement Volumes | | | | | | | | | | | | |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | | | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cplg |
| 14 3/4 | 0.5563 | 424 | 611 | 501 | 22 | 9.00 | 3645 | 5M | | | | 1.50 |
| Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK. | | | | | | | | | | | | |
| Site plot (page racks S or F) as per O.O. 1-10-D-A-1 not found | | | | | | | | | | | | |

| 8 5/8 | | casing inside the | | 10 3/4 | | Design Factors | | | | Int 1 | | |
|---|----------------|-------------------|------------------|---------------|------------------|-----------------|----------------------|------------|--------|-------|------|--------------------|
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 32.00 | | p 110 | vam sprint fj | 2.08 | 0.65 | 1.08 | 11,200 | 1 | 1.82 | 1.10 | 358,400 |
| "B" | | | | | | | | 0 | | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | | Totals: | 11,200 | | | 358,400 |
| The cement volume(s) are intended to achieve a top of | | | | | | 0 | ft from surface or a | | 900 | | | overlap. |
| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | | | | Min Dist Hole-Cplg |
| 9 7/8 | 0.1261 | 520 | 749 | 1420 | -47 | 10.50 | 3936 | 5M | | | | 0.61 |
| D V Tool(s): | | | 6676 | | | | sum of sx | Σ CuFt | | | | Σ%excess |
| t by stage % : | | | 31 | 28 | | | 993 | 1837 | | | | 29 |
| Class 'C' tail cmt yld > 1.35 | | | | | | | | | | | | |

| | | | | | | | | | | | | |
|---|----------------|-------------------|------------------|-----------|------------------|-----------------|----------------------|----------------|-----|--------|------|--------------------|
| Tail cmt | | casing inside the | | 8 5/8 | | Design Factors | | | | Prod 1 | | |
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 17.00 | | p 110 | dwc/c is+ | 2.66 | 1.13 | 1.61 | 23,511 | 2 | 2.70 | 1.90 | 399,687 |
| | | | | | | | | 0 | | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 2,661 | | | | | | | | Totals: 23,511 | | | | 399,687 |
| The cement volume(s) are intended to achieve a top of | | | | | | 11000 | ft from surface or a | | 200 | | | overlap. |
| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | | | | Min Dist Hole-Cplg |
| 7 7/8 | 0.1733 | 1732 | 2708 | 2168 | 25 | 10.50 | | | | | | 0.91 |
| Class 'C' tail cmt yld > 1.35 | | | | | | | | | | | | |

| | | | | | | | | | | | |
|--|----------------|----------------|------------------|-----------|------------------|----------------------|-----------|-----------------|-----|-----|--------------------|
| #N/A | | | | | | | | | | | |
| 0 | | | 5 1/2 | | Design Factors | | | <Choose Casing> | | | |
| Segment | #/ft | Grade | Coupling | #N/A | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | | | 0.00 | | | | 0 | | | | 0 |
| "B" | | | 0.00 | | | | 0 | | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | Totals: | 0 | | | 0 |
| Cmt vol calc below includes this csg, TOC intended | | | | | #N/A | ft from surface or a | #N/A | | | | overlap. |
| Hole Size | Annular Volume | 1 Stage Cmt Sx | 1 Stage CuFt Cmt | Min Cu Ft | 1 Stage % Excess | Drilling Mud Wt | Calc MASP | Req'd BOPE | | | Min Dist Hole-Cplg |
| 0 | | #N/A | #N/A | 0 | #N/A | | | | | | |
| #N/A Capitan Reef est top XXXX. | | | | | | | | | | | |

23-25-31-A Sundry ID 2754517 Mule 23-11 Fed Com 734H.xlsm

Mule 23-11 Fed Com 734H

| 10 3/4 | | surface csg in a | | 14 3/4 | | inch hole. | | Design Factors | | | | Surface | | |
|--|---------|------------------|--|----------|-------|------------|----------|----------------|--------|-----|-----------|---------|--------|--|
| Segment | #/ft | Grade | | Coupling | | Body | Collapse | Burst | Length | B@s | a-B | a-C | Weight | |
| "A" | 45.50 | | | j 55 | btc | 17.47 | 4.97 | 0.59 | 900 | 9 | 0.98 | 9.38 | 40,950 | |
| "B" | | | | | btc | | | | 0 | | | | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500 | | | | | | | | | | | | | | |
| Tail Cmt does not circ to sfc. Totals: 900 40,950 | | | | | | | | | | | | | | |
| Comparison of Proposed to Minimum Required Cement Volumes | | | | | | | | | | | | | | |
| Hole | Annular | 1 Stage | | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | Min Dist | | | |
| Size | Volume | Cmt Sx | | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | Hole-Cplg | | | |
| 14 3/4 | 0.5563 | 424 | | 611 | 501 | 22 | 9.00 | 3645 | 5M | | 1.50 | | | |
| Burst Frac Gradient(s) for Segment(s) A, B = , b All > 0.70, OK. | | | | | | | | | | | | | | |
| Site plot (pipe racks S or F) as per O.O. 1-10 D-4, not found | | | | | | | | | | | | | | |

| 8 5/8 | | casing inside the | | 10 3/4 | | Design Factors | | | Int 1 | | | |
|---|---------|-------------------|----------|---------------|----------|----------------|-----------|---------|----------------------|------|------|-----------|
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 32.00 | | p 110 | vam sprint fj | 2.08 | 0.65 | 1.06 | 11,200 | 1 | 1.78 | 1.10 | 358,400 |
| "B" | | | | | | | | 0 | | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | | Totals: | 11,200 | | | 358,400 |
| The cement volume(s) are intended to achieve a top of | | | | | | | | 0 | ft from surface or a | | 900 | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | | | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cplg |
| 9 7/8 | 0.1261 | 522 | 752 | 1420 | -47 | 10.50 | 4011 | 5M | | | | 0.61 |
| D V Tool(s): | | | 6676 | | | | sum of sx | Σ CuFt | | | | Σ%excess |
| t by stage % : | | 32 | 28 | | | | 994 | 1837 | | | | 29 |
| Class 'C' tail cmt yld > 1.35 | | | | | | | | | | | | |

| | | | | | | | | | | | | | |
|---|---------|-------------------|----------|-----------|----------|----------------|-------|---------|-----|----------------------|---------|-----------|----------|
| Tail cmt | | | | | | | | | | | | | |
| 5 1/2 | | casing inside the | | 8 5/8 | | Design Factors | | | | | Prod 1 | | |
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | B@s | a-B | a-C | Weight | |
| "A" | 17.00 | | p 110 | dwc/c is+ | 2.61 | 1.11 | 1.58 | 23,634 | 2 | 2.65 | 1.87 | 401,778 | |
| "B" | | | | | | | | 0 | | | | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 2,711 | | | | | | | | Totals: | | 23,634 | 401,778 | | |
| The cement volume(s) are intended to achieve a top of | | | | | | | | 11000 | | ft from surface or a | | 200 | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | | | Min Dist | |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cplg | |
| 7 7/8 | 0.1733 | 1725 | 2698 | 2190 | 23 | 10.50 | | | | | | 0.91 | |
| Class 'C' tail cmt yld > 1.35 | | | | | | | | | | | | | |

| #N/A | | | | | | | | | | | |
|--|---------|---------|----------|-------|----------------|----------|---------|----------------------|------|-----|-----------|
| 0 | | | 5 1/2 | | Design Factors | | | <Choose Casing> | | | |
| Segment | #/ft | Grade | Coupling | #N/A | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | | | 0.00 | | | | 0 | | | | 0 |
| "B" | | | 0.00 | | | | 0 | | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: | | | | | | | Totals: | 0 | | | 0 |
| Cmt vol calc below includes this csg, TOC intended | | | | | | | #N/A | ft from surface or a | #N/A | | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Req'd | | | Min Dist |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | Hole-Cplg |
| 0 | | #N/A | #N/A | 0 | #N/A | | | | | | |
| #N/A | | | | | | | | | | | |
| Capitan Reef est top XXXX. | | | | | | | | | | | |

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 296033

CONDITIONS

| | |
|---|--|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 296033 |
| | Action Type: [C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | Condition | Condition Date |
|-------------|---------------------------------|----------------|
| ward.rikala | All original COA's still apply. | 12/20/2023 |