

Form 3160-3
(October 2024)FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2027UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

| | | |
|---|---------------------------------------|---|
| 1a. Type of work: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER | | 5. Lease Serial No. |
| 1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other | | 6. If Indian, Allottee or Tribe Name |
| 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone | | 7. If Unit or CA Agreement, Name and No. |
| 2. Name of Operator | | 8. Lease Name and Well No. |
| 3a. Address | | 9. API Well No. 30-015-57746 |
| 3b. Phone No. (include area code) | | 10. Field and Pool, or Exploratory |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone | | 11. Sec., T. R. M. or Blk. and Survey or Area |
| 14. Distance in miles and direction from nearest town or post office* | | 12. County or Parish |
| | | 13. State |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No of acres in lease | 17. Spacing Unit dedicated to this well |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Proposed Depth | 20. BLM/BIA Bond No. in file |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Approximate date work will start* | 23. Estimated duration |
| 24. Attachments | | |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

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

| | | |
|-------------------------|----------------------|------|
| 25. Signature | Name (Printed/Typed) | Date |
| Title | | |
| Approved by (Signature) | Name (Printed/Typed) | Date |
| Title | | |
| Office | | |

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

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

(Continued on page 2)

*(Instructions on page 2)



| | | | | |
|--|--|-------------------------------------|----------------------------|---|
| C-102 Submit Electronically Via OCD Permitting | State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION | | Revised September 17, 2024 | |
| | | | Submittal Type: | <input checked="" type="checkbox"/> Initial Submittal |
| | | | | <input type="checkbox"/> Amended Report |
| | | <input type="checkbox"/> As Drilled | | |

WELL LOCATION INFORMATION

| | | |
|--|--|---|
| API Number 30-015-57746 | Pool Code 98220 | Pool Name PURPLE SAGE;WOLFCAMP (GAS) |
| Property Code 338780 | Property Name WAR CLUB 3-4 FED COM | Well Number 621H |
| OGRID No. 6137 | Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P. | Ground Level Elevation 3133.0' |
| Surface Owner: <input type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal | | Mineral Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal |

Surface Location

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|----|---------|----------|-------|-----|--------------|--------------|-----------|------------|--------|
| | 3 | 22-S | 27-E | 1 | 937' N | 400' E | 32.426635 | 104.170302 | EDDY |

Bottom Hole Location

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|----|---------|----------|-------|-----|--------------|--------------|-----------|------------|--------|
| | 4 | 22-S | 27-E | 4 | 880' N | 20' W | 32.426705 | 104.203332 | EDDY |

| | | | | |
|---------------------------|-------------------------------------|--------------------------|---|-------------------------|
| Dedicated Acres 639.26 | Infill or Defining Well DEFINING | Defining Well API N/A | Overlapping Spacing Unit (Y/N) NO | Consolidation Code C |
| Order Numbers PENDING NSL | | | Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |

Kick Off Point (KOP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|----|---------|----------|-------|-----|--------------|--------------|----------|-----------|--------|
| | 3 | 22-S | 27-E | 1 | 880' N | 42' E | 32.4267 | 104.1692 | EDDY |

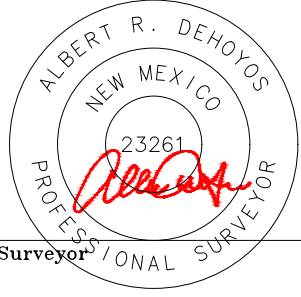
First Take Point (FTP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|----|---------|----------|-------|-----|--------------|--------------|-----------|------------|--------|
| | 3 | 22-S | 27-E | 1 | 880' N | 100' E | 32.426796 | 104.169327 | EDDY |

Last Take Point (LTP)

| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County |
|----|---------|----------|-------|-----|--------------|--------------|-----------|------------|--------|
| | 4 | 22-S | 27-E | 4 | 880' N | 100' W | 32.426706 | 104.203072 | EDDY |

| | | |
|---|--|-------------------------|
| Spacing Unit Type Horizontal Vertical HORIZONTAL | | Ground Floor Elevation: |
|---|--|-------------------------|

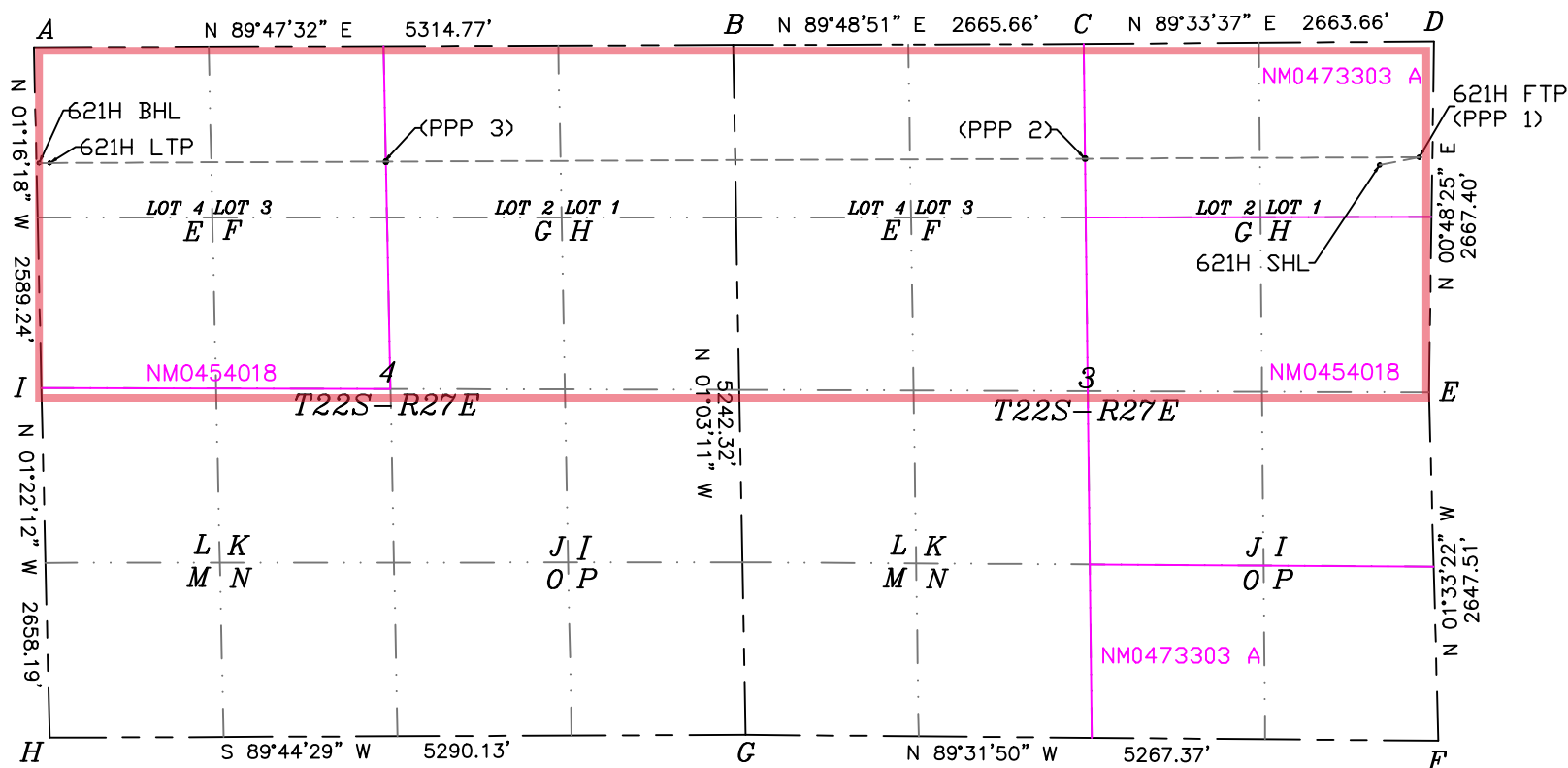
| | | | |
|--|--|--|-----------------------------|
| OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. | | SURVEYOR CERTIFICATIONS I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under supervision, and that the same is true and correct to the best of my belief. | |
| Signature <i>Shandee Thomas</i> Date 9/24/24 | |  | |
| Printed Name Shandee Thomas | | | |
| Email Address Shandee.Thomas@dmn.com | | Signature and Seal of Professional Surveyor | Certificate Number 23261 |
| | | Date of Survey 4/2024 | |

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

| | | | |
|---|---|-------------|-------------|
| A | = | N:519870.78 | E:581409.22 |
| B | = | N:519890.05 | E:586723.95 |
| C | = | N:519898.70 | E:589389.60 |
| D | = | N:519919.15 | E:592053.18 |
| E | = | N:517252.01 | E:592015.61 |
| F | = | N:514605.47 | E:592087.50 |
| G | = | N:514648.62 | E:586820.31 |
| H | = | N:514624.74 | E:581530.23 |
| I | = | N:517282.18 | E:581466.68 |

| |
|--|
| <p><u>FIRST TAKE POINT(PPP 1)</u> 880' FNL 100' FEL SEC. 3 N:519038.26/E:591940.76 LAT:32.426796/LON:104.169327</p> |
| <p><u>LAST TAKE POINT</u> 880' FNL 100' FWL SEC. 4 N:518991.21/E:581528.76 LAT:32.426706/LON:104.203072</p> |
| <p><u>BOTTOM HOLE LOCATION</u> 880' FNL 20' FWL SEC. 4 N:518990.92/E:581448.75 LAT:32.426705/LON:104.203332</p> |

| |
|--|
| <p align="center"><u>PPP2</u></p> <p>872' FNL 2640' FEL SECTION 3 N:519026.78/E:589400.24 LAT:32.426775/LON:104.177561</p> |
| <p align="center"><u>PPP3</u></p> <p>878' FNL 2655' FEL SECTION 4 N:519002.76/E:584084.78 LAT:32.426729/LON:104.194788</p> |



State of New Mexico
Energy, Minerals and Natural Resources DepartmentSubmit Electronically
Via E-permittingOil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505**NATURAL GAS MANAGEMENT PLAN**

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description**Effective May 25, 2021****I. Operator:** DEVON ENERGY PRODUCTION COMPANY, LP **OGRID:** 6137 **Date:** 09 / 12 / 2024**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | Anticipated Gas MCF/D | Anticipated Produced Water BBL/D |
|----------------|-----|-------|----------|-----------------------|-----------------------|----------------------------------|
| See attachment | | | | | | |
| | | | | | | |

IV. Central Delivery Point Name: See attachment [See 19.15.27.9(D)(1) NMAC]**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow Back Date | First Production Date |
|----------------|-----|-----------|-----------------|------------------------------|------------------------|-----------------------|
| See attachment | | | | | | |
| | | | | | | |

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

NATURAL GAS MANAGEMENT PLAN
Section 1 - Plan Description

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name | API | ULSTR & FOOTAGE | Anticipated Gas/Oil/Water | Central Delivery Point Name: |
|---------------------------|-----|--------------------------------|--|------------------------------|
| WAR CLUB 2-3 FED COM 113H | n/a | 2-22S-27E, 1523 FSL & 2078 FWL | (+/-)1625mcf/d/(+/-)694bopd/(+/-)2172bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 114H | n/a | 2-22S-27E, 1433 FSL & 2075 FWL | (+/-)1625mcf/d/(+/-)694bopd/(+/-)2172bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 223H | n/a | 2-22S-27E, 1493 FSL & 2077 FWL | (+/-)1625mcf/d/(+/-)694bopd/(+/-)2172bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 224H | n/a | 2-22S-27E, 1403 FSL & 2075 FWL | (+/-)1625mcf/d/(+/-)694bopd/(+/-)2172bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 303H | n/a | 2-22S-27E, 1463 FSL & 2076 FWL | (+/-)2194mcf/d/(+/-)973bopd/(+/-)2965bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 304H | n/a | 2-22S-27E, 1373 FSL & 2074 FWL | (+/-)2194mcf/d/(+/-)973bopd/(+/-)2965bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 623H | n/a | 2-22S-27E, 1463 FSL & 2376 FWL | (+/-)2995mcf/d/(+/-)1245bopd/(+/-)3115bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 624H | n/a | 2-22S-27E, 1373 FSL & 2374 FWL | (+/-)2995mcf/d/(+/-)1245bopd/(+/-)3115bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 823H | n/a | 2-22S-27E, 1523 FSL & 2378 FWL | (+/-)6778mcf/d/(+/-)626bopd/(+/-)2539bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 824H | n/a | 2-22S-27E, 1433 FSL & 2375 FWL | (+/-)6778mcf/d/(+/-)626bopd/(+/-)2539bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 913H | n/a | 2-22S-27E, 1493 FSL & 2377 FWL | (+/-)6778mcf/d/(+/-)626bopd/(+/-)2539bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 2-3 FED COM 914H | n/a | 2-22S-27E, 1403 FSL & 2375 FWL | (+/-)6778mcf/d/(+/-)626bopd/(+/-)2539bwpd | WAR CLUB 2 CTB 3 |
| WAR CLUB 3-4 FED COM 111H | n/a | 3-22S-27E, 870 FNL & 700 FEL | (+/-)1625mcf/d/(+/-)694bopd/(+/-)2172bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 112H | n/a | 3-22S-27E, 960 FNL & 700 FEL | (+/-)1625mcf/d/(+/-)694bopd/(+/-)2172bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 221H | n/a | 3-22S-27E, 900 FNL & 700 FEL | (+/-)1625mcf/d/(+/-)694bopd/(+/-)2172bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 222H | n/a | 3-22S-27E, 990 FNL & 700 FEL | (+/-)1625mcf/d/(+/-)694bopd/(+/-)2172bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 301H | n/a | 3-22S-27E, 930 FNL & 700 FEL | (+/-)2194mcf/d/(+/-)973bopd/(+/-)2965bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 302H | n/a | 3-22S-27E, 1020 FNL & 700 FEL | (+/-)2194mcf/d/(+/-)973bopd/(+/-)2965bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 620H | n/a | 3-22S-27E, 847 FNL & 400 FEL | (+/-)2995mcf/d/(+/-)1245bopd/(+/-)3115bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 621H | n/a | 3-22S-27E, 937 FNL & 400 FEL | (+/-)2995mcf/d/(+/-)1245bopd/(+/-)3115bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 622H | n/a | 3-22S-27E, 1027 FNL & 400 FEL | (+/-)2995mcf/d/(+/-)1245bopd/(+/-)3115bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 821H | n/a | 3-22S-27E, 877 FNL & 400 FEL | (+/-)6778mcf/d/(+/-)626bopd/(+/-)2539bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 822H | n/a | 3-22S-27E, 967 FNL & 400 FEL | (+/-)6778mcf/d/(+/-)626bopd/(+/-)2539bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 911H | n/a | 3-22S-27E, 907 FNL & 400 FEL | (+/-)6778mcf/d/(+/-)626bopd/(+/-)2539bwpd | WAR CLUB 3 CTB 1 |
| WAR CLUB 3-4 FED COM 912H | n/a | 3-22S-27E, 997 FNL & 400 FEL | (+/-)6778mcf/d/(+/-)626bopd/(+/-)2539bwpd | WAR CLUB 3 CTB 1 |

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow back Date | First Production Date |
|---------------------------|-----|------------|-----------------|------------------------------|------------------------|-----------------------|
| WAR CLUB 2-3 FED COM 113H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 2-3 FED COM 114H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 2-3 FED COM 223H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 2-3 FED COM 224H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 2-3 FED COM 303H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 2-3 FED COM 304H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 2-3 FED COM 623H | n/a | 10/4/2025 | 11/3/2025 | 3/3/2026 | 3/3/2026 | 3/3/2026 |
| WAR CLUB 2-3 FED COM 624H | n/a | 8/29/2025 | 9/28/2025 | 1/26/2026 | 1/26/2026 | 1/26/2026 |
| WAR CLUB 2-3 FED COM 823H | n/a | 9/14/2025 | 10/14/2025 | 2/11/2026 | 2/11/2026 | 2/11/2026 |
| WAR CLUB 2-3 FED COM 824H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 2-3 FED COM 913H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 2-3 FED COM 914H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 3-4 FED COM 111H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 3-4 FED COM 112H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 3-4 FED COM 221H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 3-4 FED COM 222H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 3-4 FED COM 301H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 3-4 FED COM 302H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 3-4 FED COM 620H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 3-4 FED COM 621H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 3-4 FED COM 622H | n/a | 9/15/2025 | 10/15/2025 | 2/12/2026 | 2/12/2026 | 2/12/2026 |
| WAR CLUB 3-4 FED COM 821H | n/a | 8/27/2025 | 9/26/2025 | 1/24/2026 | 1/24/2026 | 1/24/2026 |
| WAR CLUB 3-4 FED COM 822H | n/a | 10/3/2025 | 11/2/2025 | 3/2/2026 | 3/2/2026 | 3/2/2026 |
| WAR CLUB 3-4 FED COM 911H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |
| WAR CLUB 3-4 FED COM 912H | n/a | 10/23/2025 | 11/22/2025 | 3/22/2026 | 3/22/2026 | 3/22/2026 |

* Dates subject to change

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF |
|------|-----|--|--|
| | | | |
| | | | |

X. Natural Gas Gathering System (NGGS):

| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity of System Segment Tie-in |
|----------|--------|-----------------|----------------------------------|---|
| | | | | |
| | | | | |

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

D Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices


1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

| | |
|---|---|
| Signature: |  |
| Printed Name: | Jeffrey Walla |
| Title: | Surface Land & Regulatory Manager |
| E-mail Address: | jeff.walla@dvn.com |
| Date: | |
| Phone: | (405) 552-8154 |
| OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) | |
| Approved By: | |
| Title: | |
| Approval Date: | |
| Conditions of Approval: | |



VI. Separation Equipment

Devon Energy Production Company, L.P. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. Devon utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.



VII. Operational Practices

Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, Devon will utilize flares and/or combustors to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, Devon will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, Devon will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares and/or combustors will be used to capture and control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, Devon will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, Devon will take every practical effort to minimize waste of natural gas through venting and flaring by:
 - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
 - Utilizing a closed-loop capture system to collect and route produced gas to sales line via low pressure compression, or to a flare/combustor
 - Flaring in lieu of venting, where technically feasible
 - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
 - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
 - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
 - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
 - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible



VIII. Best Management Practices during Maintenance

Devon Energy Production Company, L.P. will utilize best management practices to minimize venting during active and planned maintenance activities. Devon is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. Devon will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.



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73102
Phone: (405) 228-4800

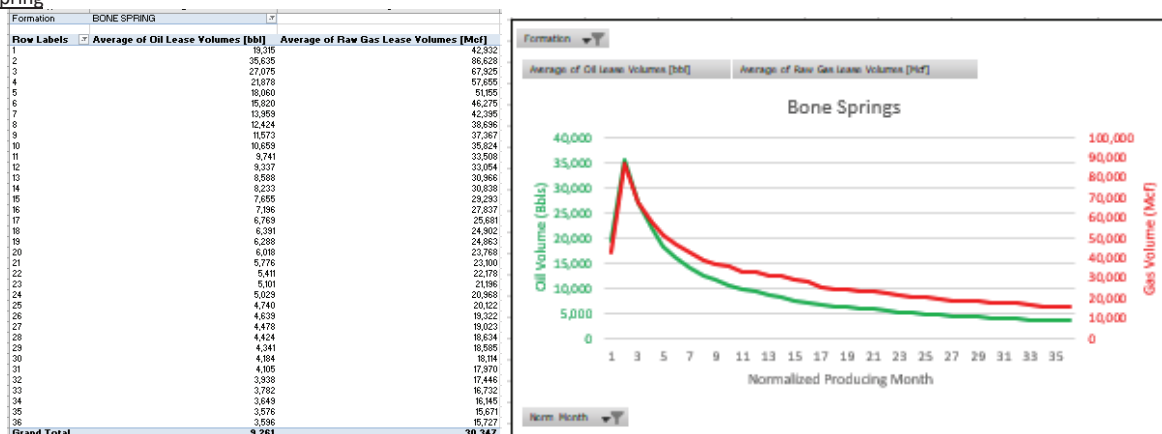
WASTE MINIMIZATION PLAN

Per 89 FR 25378 - Waste Prevention, Production Subject to Royalties, and Resource Conservation, requirements:

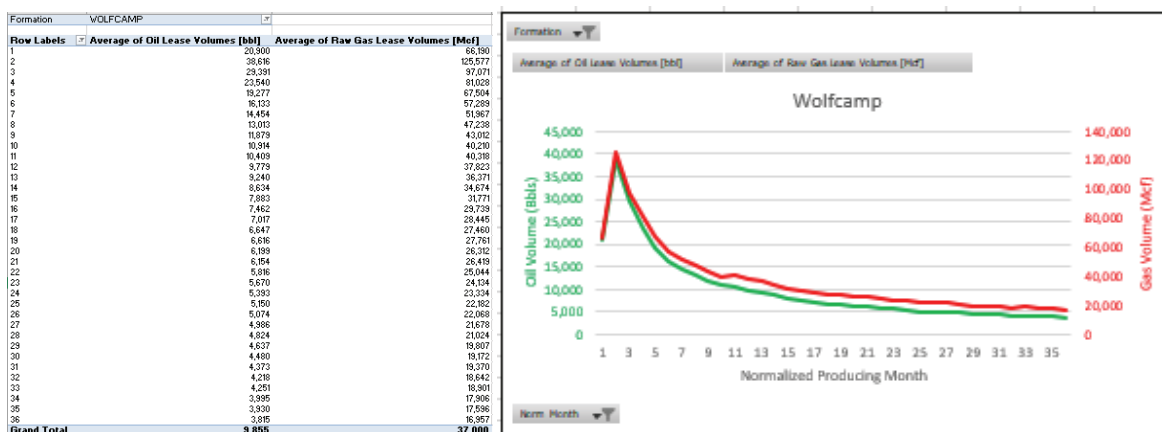
- (1) initial oil production estimates and decline,
- (2) initial gas production estimates and decline,
- (3) certification that the operator has an executed gas sales contract to sell 100 percent of the produced oil-well gas, and
- (4) any other information demonstrating the operator's plans to avoid the waste of gas.

(1), (2) 3 year Oil and Gas decline curves: Bone Spring and Wolfcamp formation decline curves below supply Year 1, 2, 3 cumulative values for oil and gas, in range format; based on peak IP rates for oil and gas based on Devon Energy Production Company, L.P. operated wells ID post 1/2019, 10K LL norm, P90-10 ranges, annualized rates. Please refer to NGMP for table of initial oil and gas volumes.

Bone Spring



Wolfcamp



(3) Certification (NGMP Section 3 – Certification): Operator (Devon Energy Production Company, L.P.) will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system;

(4) Addl waste avoidance information: Refer to NGMP Sec. VII. Operational Practices & VIII. Best Management Practices during Maintenance

WAR CLUB 3-4 FED COM 621H

1. Geologic Formations

| | | | |
|---------------|-------|------------------------------|-----|
| TVD of target | 8826 | Pilot hole depth | N/A |
| MD at TD: | 19360 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|----------------------|---------------------------|--|----------|
| Rustler | 266 | | |
| Salt | 417 | | |
| Base of Salt | 736 | | |
| Delaware | 2216 | | |
| Cherry Canyon | 2921 | | |
| Brushy Canyon | 3976 | | |
| 1st Bone Spring Lime | 5360 | | |
| Bone Spring 1st | 6584 | | |
| Bone Spring 2nd | 7377 | | |
| 3rd Bone Spring Lime | 7589 | | |
| Bone Spring 3rd | 8570 | | |
| Wolfcamp | 8906 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

WAR CLUB 3-4 FED COM 621H

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 | 291 | 0 | 291 |
| 9 7/8 | 8 5/8 | 32 | P110HSCY | MOFXL | 0 | 8363 | 0 | 8363 |
| 7 7/8 | 5 1/2 | 20 | P110EC | DWC/IS-C+ | 0 | 19360 | 0 | 8826 |

•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 | 193 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 283 | Surf | 13.0 | 2.3 | 2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives |
| | 507 | 4001 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 117 | 6463 | 9 | 3.27 | Lead: Class H / C + additives |
| | 1442 | 8463 | 13.2 | 1.44 | Tail: Class H / C + additives |

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

WAR CLUB 3-4 FED COM 621H

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 | | | | |

WAR CLUB 3-4 FED COM 621H

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 | 4819 |
| 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. |

WAR CLUB 3-4 FED COM 621H

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

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks while skidding between wells which conforms to API Standard 53 and industry standards. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. This test will at minimum include the Top Pipe Ram, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and BOP shell of the 10M BOPE to 5M for 10 minutes. Additional pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. 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. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before starting the first intermediate casing string(s) and starting the first production hole on a pad, testing the Annular during initial BOP testing to a minimum of 70% RWP and higher than MASP, and pressure testing at a 21-day interval frequency. 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. In the event break testing is not utilized, then a full BOPE test would be conducted.

Devon Energy requests to perform offline BOP stump testing and offline BOPE testing. All pressure-containing and pressure-controlling seals will be tested either online or offline as denoted in the table below and per BLM approval during initial BOP test following test pressure requirements set forth in 43 CFR 3172. Remaining components not tested offline or on the stump will be tested within 72-hours when the BOP is connected to the wellhead. If stump testing exceeds 72-hour window prior to connecting to the wellhead, the BLM will be notified and either stump testing restarted, or the BOP being tested online. 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. In the event stump testing is not utilized, then a full BOPE test would be conducted.

| Components | Offline | Offline, BOPE | Break | Online |
|---|---------|---------------|-------|--------|
| Upper Rams | | X | X | X |
| Blind Rams | | X | | X |
| Lower Rams | | | | X |
| Outside Kill Valve | | X | X | X |
| Inside Kill Valve | | X | X | X |
| Kill Line Check Valve | | X | X | X |
| Inside Choke Valve | | X | X | X |
| HCR | | X | X | X |
| Kill Line | X | | | X |
| Annular | | X | | X |
| Choke Manifold Valves and Hose | X | | | X |
| Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line) | X | | | X |
| Standpipe Valve | X | | | X |
| IBOP (Upper and Lower) | X | | | X |

Devon requests offline BOPE testing of components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular

Remaining well control equipment components will either be tested offline or online, per BLM approval

Remaining BOPE will be tested online within 72-hours from completing the offline BOPE component testing

Notify the BLM if the online BOPE testing exceeds 72-hours

All Full Tests not completed "Offline" or "Offline, BOPE" are required to be completed Online

Devon requests Break Testing as stated above for 5K tests

Annular Preventer will be tested to minimum of 70% RWP and higher than MASP during initial BOP test

If interval PCE WP requirements are greater than 5M, break testing will not be performed

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

Offline Cementing

Variance Request

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.



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Oklahoma City, Oklahoma
73102
Phone: (405) 228-4800

PFAS Certification Statement

Per 19.15.7.16 NMAC , Order R-23824, Devon Energy Production Company, L.P./WPX certifies no addition of PFAS chemicals to fluids used in the completion or recompletion of the subject well.

Devon Energy

APD VARIANCE DATA

OPERATOR NAME: Devon Energy

1. SUMMARY OF Variance:

Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

2. Description of Operations

1. A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
 - a. After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. Rig will utilize fresh water based mud to drill surface hole to TD.
2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
3. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
4. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
5. Drilling operation will be performed with the big 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 BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
6. Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.



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

Drilling Plan Data Report

11/18/2025

APD ID: 10400101197

Submission Date: 09/25/2024

Highlighted data
reflects the most
recent changes

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: WAR CLUB 3-4 FED COM

Well Number: 621H

Well Type: OIL WELL

Well Work Type: Drill

[Show Final Text](#)

Section 1 - Geologic Formations

| Formation ID | Formation Name | Elevation | True Vertical | Measured Depth | Lithologies | Mineral Resources | Producing Formatio |
|--------------|------------------|-----------|---------------|----------------|-----------------|-------------------|--------------------|
| 16798072 | UNKNOWN | 3133 | 0 | 0 | OTHER : Surface | NONE | N |
| 16798073 | RUSTLER | 2867 | 266 | 266 | SANDSTONE | NONE | N |
| 16798074 | TOP SALT | 2716 | 417 | 417 | SALT | NONE | N |
| 16798082 | BASE OF SALT | 2397 | 736 | 736 | ANHYDRITE | NONE | N |
| 16798083 | LAMAR | 2162 | 971 | 971 | SANDSTONE | NATURAL GAS, OIL | N |
| 16798085 | DELAWARE | 917 | 2216 | 2216 | SHALE | NATURAL GAS, OIL | N |
| 16798086 | CHERRY CANYON | 212 | 2921 | 2921 | SANDSTONE | NATURAL GAS, OIL | N |
| 16798071 | BRUSHY CANYON | -843 | 3976 | 3976 | SANDSTONE | NATURAL GAS, OIL | N |
| 16798080 | BONE SPRING LIME | -2227 | 5360 | 5360 | LIMESTONE | NATURAL GAS, OIL | N |
| 16798078 | BONE SPRING | -3451 | 6584 | 6584 | SANDSTONE | NATURAL GAS, OIL | N |
| 16798081 | BONE SPRING 2ND | -4244 | 7377 | 7377 | SANDSTONE | NATURAL GAS, OIL | N |
| 16798091 | BONE SPRING LIME | -4456 | 7589 | 7589 | LIMESTONE | NATURAL GAS, OIL | N |
| 16798092 | BONE SPRING 3RD | -5437 | 8570 | 8570 | SANDSTONE | NATURAL GAS, OIL | N |
| 16798093 | WOLFCAMP | -5773 | 8906 | 8906 | SHALE | NATURAL GAS, OIL | Y |
| 16798094 | STRAWN | -7067 | 10200 | 10200 | LIMESTONE | NATURAL GAS, OIL | N |

Section 2 - Blowout Prevention



Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems
June 2010

I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

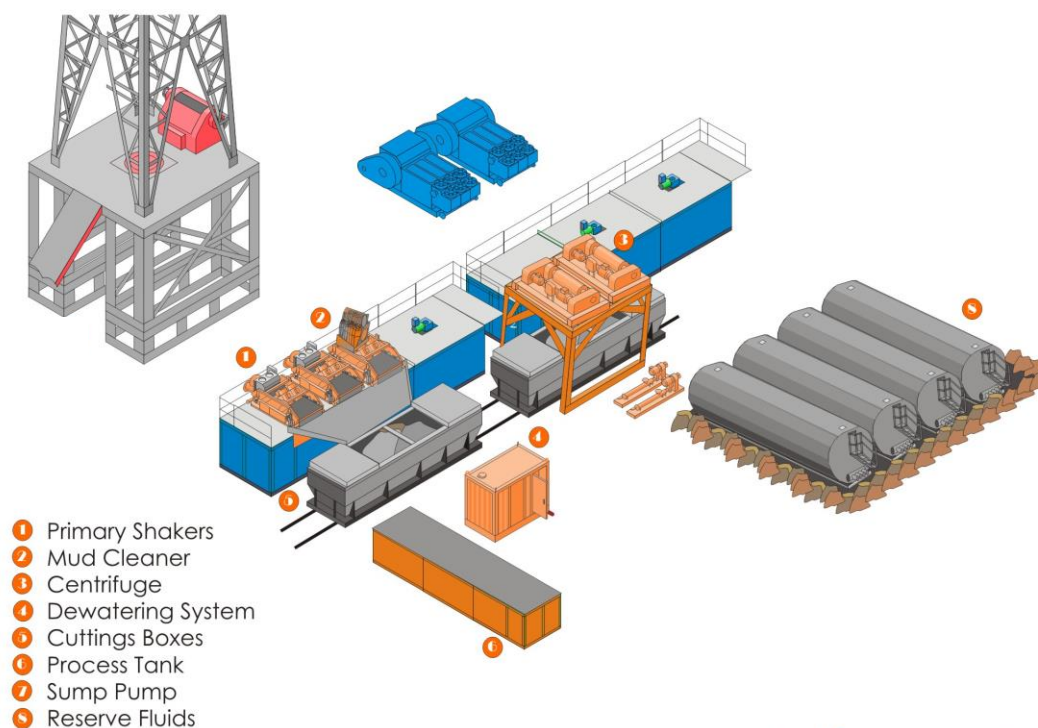
II. Operations and Maintenance Plan

Primary Shakers: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

Mud Cleaner: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



Closed Loop Schematic



MI SWACO

Centrifuges: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependant on well factors.

Dewatering System: The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

Cuttings Boxes: Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

Process Tank: (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

Reserve Fluids (Tank Farm): A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe

dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.



Well: WAR CLUB 3-4 FED COM 621H

County: Eddy

Wellbore: Permit Plan

Design: Permit Plan #1

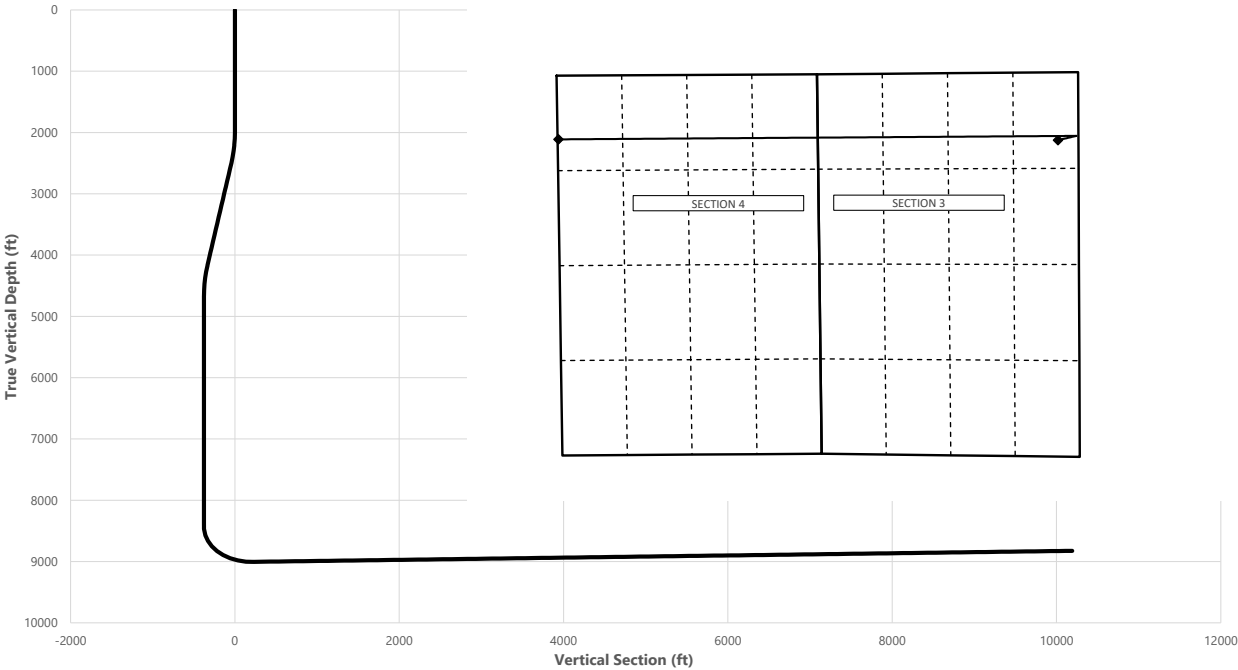
Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

| MD | INC | AZI | TVD | NS | EW | VS | DLS | Comment |
|----------|-------|--------|---------|-------|-----------|----------|-----------|------------------|
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (°/100ft) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | SHL |
| 2000.00 | 0.00 | 81.00 | 2000.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Tangent |
| 2500.00 | 10.00 | 81.00 | 2497.47 | 6.81 | 42.99 | -42.98 | 2.00 | Hold Tangent |
| 4195.19 | 10.00 | 81.00 | 4166.90 | 52.86 | 333.73 | -333.67 | 0.00 | Drop to Vertical |
| 4695.19 | 0.00 | 81.00 | 4664.37 | 59.67 | 376.72 | -376.65 | 2.00 | Hold Vertical |
| 8462.96 | 0.00 | 269.74 | 8432.14 | 59.67 | 376.72 | -376.65 | 0.00 | KOP |
| 9373.29 | 91.03 | 269.74 | 9005.00 | 57.02 | -206.56 | 206.63 | 10.00 | Landing Point |
| 19359.60 | 91.03 | 269.74 | 8825.00 | 11.71 | -10191.15 | 10191.16 | 0.00 | BHL |



| Key Depths | MD | TVD |
|---------------------------------|----------|---------|
| | (ft) | (ft) |
| Rustler | 266.00 | 266.00 |
| Salt | 417.00 | 417.00 |
| Base of Salt | 736.00 | 736.00 |
| Delaware | 2216.21 | 2216.00 |
| Cherry Canyon | 2930.07 | 2921.00 |
| Brushy Canyon | 4001.34 | 3976.00 |
| 1st Bone Spring Lime | 5390.82 | 5360.00 |
| Bone Spring 1st | 6614.82 | 6584.00 |
| Bone Spring 2nd | 7407.82 | 7377.00 |
| 3rd Bone Spring Lime | 7619.82 | 7589.00 |
| Bone Spring 3rd | 8602.19 | 8570.00 |
| Wolfcamp / Point of Penetration | 9020.93 | 8906.00 |
| exit | 19279.60 | 8826.46 |

SHL
KOP
Point of Penetration
Exit
BHL

| MD | TVD | Lat | Long | Section Footages |
|----------|---------|---------|-----------|---|
| (ft) | (ft) | (°) | (°) | |
| 0.00 | 0.00 | 32.4265 | -104.1704 | 937' FNL, 400' FEL of Sec 3 in T22S, R27E |
| 8462.96 | 8432.14 | 32.4267 | -104.1692 | 880' FNL, 42' FEL of Sec 3 in T22S, R27E |
| 9020.93 | 8906.00 | 32.4268 | -104.1693 | 880' FNL, 100' FEL of Sec 3 in T22S, R27E |
| 19279.60 | 8826.46 | 32.4267 | -104.2031 | 880' FNL, 100' FWL of Sec 4 in T22S, R27E |
| 19359.60 | 8825.00 | 32.4266 | -104.2034 | 880' FNL, 20' FWL of Sec 4 in T22S, R27E |

| | Y | X | MD |
|-----|--------|--------|---------|
| KOP | 519039 | 592017 | 8462.96 |

WAR CLUB 3-4 FED COM 621H



Well: WAR CLUB 3-4 FED COM 621H
 County: Eddy
 Wellbore: Permit Plan
 Design: Permit Plan #1

Geodetic System: US State Plane 1983
 Datum: North American Datum 1927
 Ellipsoid: Clarke 1866
 Zone: 3001 - NM East (NAD83)

| MD (ft) | INC (°) | AZI (°) | TVD (ft) | NS (ft) | EW (ft) | VS (ft) | DLS (°/100ft) | Comment |
|------------|------------|------------|-------------|------------|------------|------------|------------------|----------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | SHL |
| 100.00 | 0.00 | 81.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.00 | 0.00 | 81.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 266.00 | 0.00 | 81.00 | 266.00 | 0.00 | 0.00 | 0.00 | 0.00 | Rustler |
| 300.00 | 0.00 | 81.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 400.00 | 0.00 | 81.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 417.00 | 0.00 | 81.00 | 417.00 | 0.00 | 0.00 | 0.00 | 0.00 | Salt |
| 500.00 | 0.00 | 81.00 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 0.00 | 81.00 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 700.00 | 0.00 | 81.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 736.00 | 0.00 | 81.00 | 736.00 | 0.00 | 0.00 | 0.00 | 0.00 | Base of Salt |
| 800.00 | 0.00 | 81.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 900.00 | 0.00 | 81.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1000.00 | 0.00 | 81.00 | 1000.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1100.00 | 0.00 | 81.00 | 1100.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1200.00 | 0.00 | 81.00 | 1200.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1300.00 | 0.00 | 81.00 | 1300.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1400.00 | 0.00 | 81.00 | 1400.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1500.00 | 0.00 | 81.00 | 1500.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1600.00 | 0.00 | 81.00 | 1600.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1700.00 | 0.00 | 81.00 | 1700.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1800.00 | 0.00 | 81.00 | 1800.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1900.00 | 0.00 | 81.00 | 1900.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2000.00 | 0.00 | 81.00 | 2000.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Tangent |
| 2100.00 | 2.00 | 81.00 | 2099.98 | 0.27 | 1.72 | -1.72 | 2.00 | |
| 2200.00 | 4.00 | 81.00 | 2199.84 | 1.09 | 6.89 | -6.89 | 2.00 | |
| 2216.21 | 4.32 | 81.00 | 2216.00 | 1.28 | 8.05 | -8.05 | 2.00 | Delaware |
| 2300.00 | 6.00 | 81.00 | 2299.45 | 2.46 | 15.50 | -15.50 | 2.00 | |
| 2400.00 | 8.00 | 81.00 | 2398.70 | 4.36 | 27.54 | -27.53 | 2.00 | |
| 2500.00 | 10.00 | 81.00 | 2497.47 | 6.81 | 42.99 | -42.98 | 2.00 | Hold Tangent |
| 2600.00 | 10.00 | 81.00 | 2595.95 | 9.52 | 60.14 | -60.13 | 0.00 | |
| 2700.00 | 10.00 | 81.00 | 2694.43 | 12.24 | 77.29 | -77.27 | 0.00 | |
| 2800.00 | 10.00 | 81.00 | 2792.91 | 14.96 | 94.44 | -94.42 | 0.00 | |
| 2900.00 | 10.00 | 81.00 | 2891.39 | 17.67 | 111.59 | -111.57 | 0.00 | |
| 2930.07 | 10.00 | 81.00 | 2921.00 | 18.49 | 116.75 | -116.73 | 0.00 | Cherry Canyon |
| 3000.00 | 10.00 | 81.00 | 2989.87 | 20.39 | 128.74 | -128.72 | 0.00 | |
| 3100.00 | 10.00 | 81.00 | 3088.35 | 23.11 | 145.89 | -145.87 | 0.00 | |
| 3200.00 | 10.00 | 81.00 | 3186.83 | 25.82 | 163.04 | -163.01 | 0.00 | |
| 3300.00 | 10.00 | 81.00 | 3285.31 | 28.54 | 180.19 | -180.16 | 0.00 | |
| 3400.00 | 10.00 | 81.00 | 3383.79 | 31.26 | 197.35 | -197.31 | 0.00 | |
| 3500.00 | 10.00 | 81.00 | 3482.27 | 33.97 | 214.50 | -214.46 | 0.00 | |
| 3600.00 | 10.00 | 81.00 | 3580.75 | 36.69 | 231.65 | -231.61 | 0.00 | |
| 3700.00 | 10.00 | 81.00 | 3679.23 | 39.41 | 248.80 | -248.75 | 0.00 | |
| 3800.00 | 10.00 | 81.00 | 3777.72 | 42.12 | 265.95 | -265.90 | 0.00 | |
| 3900.00 | 10.00 | 81.00 | 3876.20 | 44.84 | 283.10 | -283.05 | 0.00 | |
| 4000.00 | 10.00 | 81.00 | 3974.68 | 47.56 | 300.25 | -300.20 | 0.00 | |
| 4001.34 | 10.00 | 81.00 | 3976.00 | 47.59 | 300.48 | -300.43 | 0.00 | Brushy Canyon |
| 4100.00 | 10.00 | 81.00 | 4073.16 | 50.27 | 317.40 | -317.35 | 0.00 | |
| 4195.19 | 10.00 | 81.00 | 4166.90 | 52.86 | 333.73 | -333.67 | 0.00 | Drop to Vertical |
| 4200.00 | 9.90 | 81.00 | 4171.64 | 52.99 | 334.55 | -334.49 | 2.00 | |
| 4300.00 | 7.90 | 81.00 | 4270.43 | 55.41 | 349.84 | -349.77 | 2.00 | |
| 4400.00 | 5.90 | 81.00 | 4369.70 | 57.29 | 361.71 | -361.64 | 2.00 | |
| 4500.00 | 3.90 | 81.00 | 4469.33 | 58.63 | 370.15 | -370.08 | 2.00 | |
| 4600.00 | 1.90 | 81.00 | 4569.19 | 59.42 | 375.15 | -375.09 | 2.00 | |
| 4695.19 | 0.00 | 81.00 | 4664.37 | 59.67 | 376.72 | -376.65 | 2.00 | Hold Vertical |
| 4700.00 | 0.00 | 269.74 | 4669.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 4800.00 | 0.00 | 269.74 | 4769.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 4900.00 | 0.00 | 269.74 | 4869.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 5000.00 | 0.00 | 269.74 | 4969.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 5100.00 | 0.00 | 269.74 | 5069.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 5200.00 | 0.00 | 269.74 | 5169.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 5300.00 | 0.00 | 269.74 | 5269.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 5390.82 | 0.00 | 269.74 | 5360.00 | 59.67 | 376.72 | -376.65 | 0.00 | 1st Bone Spring Lime |
| 5400.00 | 0.00 | 269.74 | 5369.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 5500.00 | 0.00 | 269.74 | 5469.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 5600.00 | 0.00 | 269.74 | 5569.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 5700.00 | 0.00 | 269.74 | 5669.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 5800.00 | 0.00 | 269.74 | 5769.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 5900.00 | 0.00 | 269.74 | 5869.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 6000.00 | 0.00 | 269.74 | 5969.18 | 59.67 | 376.72 | -376.65 | 0.00 | |

WAR CLUB 3-4 FED COM 621H



Well: WAR CLUB 3-4 FED COM 621H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

| MD (ft) | INC (°) | AZI (°) | TVD (ft) | NS (ft) | EW (ft) | VS (ft) | DLS (°/100ft) | Comment |
|------------|------------|------------|-------------|------------|------------|------------|------------------|---------------------------------|
| 6100.00 | 0.00 | 269.74 | 6069.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 6200.00 | 0.00 | 269.74 | 6169.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 6300.00 | 0.00 | 269.74 | 6269.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 6400.00 | 0.00 | 269.74 | 6369.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 6500.00 | 0.00 | 269.74 | 6469.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 6600.00 | 0.00 | 269.74 | 6569.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 6614.82 | 0.00 | 269.74 | 6584.00 | 59.67 | 376.72 | -376.65 | 0.00 | Bone Spring 1st |
| 6700.00 | 0.00 | 269.74 | 6669.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 6800.00 | 0.00 | 269.74 | 6769.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 6900.00 | 0.00 | 269.74 | 6869.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 7000.00 | 0.00 | 269.74 | 6969.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 7100.00 | 0.00 | 269.74 | 7069.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 7200.00 | 0.00 | 269.74 | 7169.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 7300.00 | 0.00 | 269.74 | 7269.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 7400.00 | 0.00 | 269.74 | 7369.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 7407.82 | 0.00 | 269.74 | 7377.00 | 59.67 | 376.72 | -376.65 | 0.00 | Bone Spring 2nd |
| 7500.00 | 0.00 | 269.74 | 7469.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 7600.00 | 0.00 | 269.74 | 7569.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 7619.82 | 0.00 | 269.74 | 7589.00 | 59.67 | 376.72 | -376.65 | 0.00 | 3rd Bone Spring Lime |
| 7700.00 | 0.00 | 269.74 | 7669.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 7800.00 | 0.00 | 269.74 | 7769.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 7900.00 | 0.00 | 269.74 | 7869.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 8000.00 | 0.00 | 269.74 | 7969.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 8100.00 | 0.00 | 269.74 | 8069.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 8200.00 | 0.00 | 269.74 | 8169.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 8300.00 | 0.00 | 269.74 | 8269.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 8400.00 | 0.00 | 269.74 | 8369.18 | 59.67 | 376.72 | -376.65 | 0.00 | |
| 8462.96 | 0.00 | 269.74 | 8432.14 | 59.67 | 376.72 | -376.65 | 0.00 | KOP |
| 8500.00 | 3.70 | 269.74 | 8469.15 | 59.66 | 375.52 | -375.45 | 10.00 | |
| 8600.00 | 13.70 | 269.74 | 8567.87 | 59.59 | 360.41 | -360.34 | 10.00 | |
| 8602.19 | 13.92 | 269.74 | 8570.00 | 59.59 | 359.88 | -359.81 | 10.00 | Bone Spring 3rd |
| 8700.00 | 23.70 | 269.74 | 8662.47 | 59.45 | 328.38 | -328.31 | 10.00 | |
| 8800.00 | 33.70 | 269.74 | 8750.07 | 59.23 | 280.41 | -280.34 | 10.00 | |
| 8900.00 | 43.70 | 269.74 | 8828.01 | 58.94 | 217.96 | -217.89 | 10.00 | |
| 9000.00 | 53.70 | 269.74 | 8893.92 | 58.60 | 142.93 | -142.86 | 10.00 | |
| 9020.93 | 55.80 | 269.74 | 8906.00 | 58.53 | 125.84 | -125.77 | 10.00 | Wolfcamp / Point of Penetration |
| 9100.00 | 63.70 | 269.74 | 8945.80 | 58.22 | 57.59 | -57.52 | 10.00 | |
| 9200.00 | 73.70 | 269.74 | 8982.08 | 57.79 | -35.47 | 35.53 | 10.00 | |
| 9300.00 | 83.70 | 269.74 | 9001.64 | 57.35 | -133.40 | 133.47 | 10.00 | |
| 9373.29 | 91.03 | 269.74 | 9005.00 | 57.02 | -206.56 | 206.63 | 10.00 | Landing Point |
| 9400.00 | 91.03 | 269.74 | 9004.52 | 56.90 | -233.27 | 233.34 | 0.00 | |
| 9500.00 | 91.03 | 269.74 | 9002.72 | 56.44 | -333.26 | 333.32 | 0.00 | |
| 9600.00 | 91.03 | 269.74 | 9000.91 | 55.99 | -433.24 | 433.30 | 0.00 | |
| 9700.00 | 91.03 | 269.74 | 8999.11 | 55.54 | -533.22 | 533.28 | 0.00 | |
| 9800.00 | 91.03 | 269.74 | 8997.31 | 55.08 | -633.20 | 633.27 | 0.00 | |
| 9900.00 | 91.03 | 269.74 | 8995.51 | 54.63 | -733.19 | 733.25 | 0.00 | |
| 10000.00 | 91.03 | 269.74 | 8993.70 | 54.17 | -833.17 | 833.23 | 0.00 | |
| 10100.00 | 91.03 | 269.74 | 8991.90 | 53.72 | -933.15 | 933.21 | 0.00 | |
| 10200.00 | 91.03 | 269.74 | 8990.10 | 53.26 | -1033.13 | 1033.20 | 0.00 | |
| 10300.00 | 91.03 | 269.74 | 8988.30 | 52.81 | -1133.12 | 1133.18 | 0.00 | |
| 10400.00 | 91.03 | 269.74 | 8986.50 | 52.36 | -1233.10 | 1233.16 | 0.00 | |
| 10500.00 | 91.03 | 269.74 | 8984.69 | 51.90 | -1333.08 | 1333.14 | 0.00 | |
| 10600.00 | 91.03 | 269.74 | 8982.89 | 51.45 | -1433.07 | 1433.12 | 0.00 | |
| 10700.00 | 91.03 | 269.74 | 8981.09 | 50.99 | -1533.05 | 1533.11 | 0.00 | |
| 10800.00 | 91.03 | 269.74 | 8979.29 | 50.54 | -1633.03 | 1633.09 | 0.00 | |
| 10900.00 | 91.03 | 269.74 | 8977.48 | 50.09 | -1733.01 | 1733.07 | 0.00 | |
| 11000.00 | 91.03 | 269.74 | 8975.68 | 49.63 | -1833.00 | 1833.05 | 0.00 | |
| 11100.00 | 91.03 | 269.74 | 8973.88 | 49.18 | -1932.98 | 1933.03 | 0.00 | |
| 11200.00 | 91.03 | 269.74 | 8972.08 | 48.72 | -2032.96 | 2033.02 | 0.00 | |
| 11300.00 | 91.03 | 269.74 | 8970.27 | 48.27 | -2132.94 | 2133.00 | 0.00 | |
| 11400.00 | 91.03 | 269.74 | 8968.47 | 47.82 | -2232.93 | 2232.98 | 0.00 | |
| 11500.00 | 91.03 | 269.74 | 8966.67 | 47.36 | -2332.91 | 2332.96 | 0.00 | |
| 11600.00 | 91.03 | 269.74 | 8964.87 | 46.91 | -2432.89 | 2432.95 | 0.00 | |
| 11700.00 | 91.03 | 269.74 | 8963.07 | 46.45 | -2532.88 | 2532.93 | 0.00 | |
| 11800.00 | 91.03 | 269.74 | 8961.26 | 46.00 | -2632.86 | 2632.91 | 0.00 | |
| 11900.00 | 91.03 | 269.74 | 8959.46 | 45.55 | -2732.84 | 2732.89 | 0.00 | |
| 12000.00 | 91.03 | 269.74 | 8957.66 | 45.09 | -2832.82 | 2832.87 | 0.00 | |
| 12100.00 | 91.03 | 269.74 | 8955.86 | 44.64 | -2932.81 | 2932.86 | 0.00 | |
| 12200.00 | 91.03 | 269.74 | 8954.05 | 44.18 | -3032.79 | 3032.84 | 0.00 | |
| 12300.00 | 91.03 | 269.74 | 8952.25 | 43.73 | -3132.77 | 3132.82 | 0.00 | |

WAR CLUB 3-4 FED COM 621H



Well: WAR CLUB 3-4 FED COM 621H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

| MD | INC | AZI | TVD | NS | EW | VS | DLS | Comment |
|----------|-------|--------|---------|-------|-----------|----------|-----------|---------|
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (°/100ft) | |
| 12400.00 | 91.03 | 269.74 | 8950.45 | 43.27 | -3232.75 | 3232.80 | 0.00 | |
| 12500.00 | 91.03 | 269.74 | 8948.65 | 42.82 | -3332.74 | 3332.78 | 0.00 | |
| 12600.00 | 91.03 | 269.74 | 8946.84 | 42.37 | -3432.72 | 3432.77 | 0.00 | |
| 12700.00 | 91.03 | 269.74 | 8945.04 | 41.91 | -3532.70 | 3532.75 | 0.00 | |
| 12800.00 | 91.03 | 269.74 | 8943.24 | 41.46 | -3632.69 | 3632.73 | 0.00 | |
| 12900.00 | 91.03 | 269.74 | 8941.44 | 41.00 | -3732.67 | 3732.71 | 0.00 | |
| 13000.00 | 91.03 | 269.74 | 8939.63 | 40.55 | -3832.65 | 3832.69 | 0.00 | |
| 13100.00 | 91.03 | 269.74 | 8937.83 | 40.10 | -3932.63 | 3932.68 | 0.00 | |
| 13200.00 | 91.03 | 269.74 | 8936.03 | 39.64 | -4032.62 | 4032.66 | 0.00 | |
| 13300.00 | 91.03 | 269.74 | 8934.23 | 39.19 | -4132.60 | 4132.64 | 0.00 | |
| 13400.00 | 91.03 | 269.74 | 8932.43 | 38.73 | -4232.58 | 4232.62 | 0.00 | |
| 13500.00 | 91.03 | 269.74 | 8930.62 | 38.28 | -4332.56 | 4332.61 | 0.00 | |
| 13600.00 | 91.03 | 269.74 | 8928.82 | 37.83 | -4432.55 | 4432.59 | 0.00 | |
| 13700.00 | 91.03 | 269.74 | 8927.02 | 37.37 | -4532.53 | 4532.57 | 0.00 | |
| 13800.00 | 91.03 | 269.74 | 8925.22 | 36.92 | -4632.51 | 4632.55 | 0.00 | |
| 13900.00 | 91.03 | 269.74 | 8923.41 | 36.46 | -4732.50 | 4732.53 | 0.00 | |
| 14000.00 | 91.03 | 269.74 | 8921.61 | 36.01 | -4832.48 | 4832.52 | 0.00 | |
| 14100.00 | 91.03 | 269.74 | 8919.81 | 35.55 | -4932.46 | 4932.50 | 0.00 | |
| 14200.00 | 91.03 | 269.74 | 8918.01 | 35.10 | -5032.44 | 5032.48 | 0.00 | |
| 14300.00 | 91.03 | 269.74 | 8916.20 | 34.65 | -5132.43 | 5132.46 | 0.00 | |
| 14400.00 | 91.03 | 269.74 | 8914.40 | 34.19 | -5232.41 | 5232.44 | 0.00 | |
| 14500.00 | 91.03 | 269.74 | 8912.60 | 33.74 | -5332.39 | 5332.43 | 0.00 | |
| 14600.00 | 91.03 | 269.74 | 8910.80 | 33.28 | -5432.37 | 5432.41 | 0.00 | |
| 14700.00 | 91.03 | 269.74 | 8909.00 | 32.83 | -5532.36 | 5532.39 | 0.00 | |
| 14800.00 | 91.03 | 269.74 | 8907.19 | 32.38 | -5632.34 | 5632.37 | 0.00 | |
| 14900.00 | 91.03 | 269.74 | 8905.39 | 31.92 | -5732.32 | 5732.36 | 0.00 | |
| 15000.00 | 91.03 | 269.74 | 8903.59 | 31.47 | -5832.31 | 5832.34 | 0.00 | |
| 15100.00 | 91.03 | 269.74 | 8901.79 | 31.01 | -5932.29 | 5932.32 | 0.00 | |
| 15200.00 | 91.03 | 269.74 | 8899.98 | 30.56 | -6032.27 | 6032.30 | 0.00 | |
| 15300.00 | 91.03 | 269.74 | 8898.18 | 30.11 | -6132.25 | 6132.28 | 0.00 | |
| 15400.00 | 91.03 | 269.74 | 8896.38 | 29.65 | -6232.24 | 6232.27 | 0.00 | |
| 15500.00 | 91.03 | 269.74 | 8894.58 | 29.20 | -6332.22 | 6332.25 | 0.00 | |
| 15600.00 | 91.03 | 269.74 | 8892.77 | 28.74 | -6432.20 | 6432.23 | 0.00 | |
| 15700.00 | 91.03 | 269.74 | 8890.97 | 28.29 | -6532.18 | 6532.21 | 0.00 | |
| 15800.00 | 91.03 | 269.74 | 8889.17 | 27.83 | -6632.17 | 6632.19 | 0.00 | |
| 15900.00 | 91.03 | 269.74 | 8887.37 | 27.38 | -6732.15 | 6732.18 | 0.00 | |
| 16000.00 | 91.03 | 269.74 | 8885.57 | 26.93 | -6832.13 | 6832.16 | 0.00 | |
| 16100.00 | 91.03 | 269.74 | 8883.76 | 26.47 | -6932.12 | 6932.14 | 0.00 | |
| 16200.00 | 91.03 | 269.74 | 8881.96 | 26.02 | -7032.10 | 7032.12 | 0.00 | |
| 16300.00 | 91.03 | 269.74 | 8880.16 | 25.56 | -7132.08 | 7132.11 | 0.00 | |
| 16400.00 | 91.03 | 269.74 | 8878.36 | 25.11 | -7232.06 | 7232.09 | 0.00 | |
| 16500.00 | 91.03 | 269.74 | 8876.55 | 24.66 | -7332.05 | 7332.07 | 0.00 | |
| 16600.00 | 91.03 | 269.74 | 8874.75 | 24.20 | -7432.03 | 7432.05 | 0.00 | |
| 16700.00 | 91.03 | 269.74 | 8872.95 | 23.75 | -7532.01 | 7532.03 | 0.00 | |
| 16800.00 | 91.03 | 269.74 | 8871.15 | 23.29 | -7631.99 | 7632.02 | 0.00 | |
| 16900.00 | 91.03 | 269.74 | 8869.34 | 22.84 | -7731.98 | 7732.00 | 0.00 | |
| 17000.00 | 91.03 | 269.74 | 8867.54 | 22.39 | -7831.96 | 7831.98 | 0.00 | |
| 17100.00 | 91.03 | 269.74 | 8865.74 | 21.93 | -7931.94 | 7931.96 | 0.00 | |
| 17200.00 | 91.03 | 269.74 | 8863.94 | 21.48 | -8031.93 | 8031.94 | 0.00 | |
| 17300.00 | 91.03 | 269.74 | 8862.13 | 21.02 | -8131.91 | 8131.93 | 0.00 | |
| 17400.00 | 91.03 | 269.74 | 8860.33 | 20.57 | -8231.89 | 8231.91 | 0.00 | |
| 17500.00 | 91.03 | 269.74 | 8858.53 | 20.12 | -8331.87 | 8331.89 | 0.00 | |
| 17600.00 | 91.03 | 269.74 | 8856.73 | 19.66 | -8431.86 | 8431.87 | 0.00 | |
| 17700.00 | 91.03 | 269.74 | 8854.93 | 19.21 | -8531.84 | 8531.86 | 0.00 | |
| 17800.00 | 91.03 | 269.74 | 8853.12 | 18.75 | -8631.82 | 8631.84 | 0.00 | |
| 17900.00 | 91.03 | 269.74 | 8851.32 | 18.30 | -8731.80 | 8731.82 | 0.00 | |
| 18000.00 | 91.03 | 269.74 | 8849.52 | 17.84 | -8831.79 | 8831.80 | 0.00 | |
| 18100.00 | 91.03 | 269.74 | 8847.72 | 17.39 | -8931.77 | 8931.78 | 0.00 | |
| 18200.00 | 91.03 | 269.74 | 8845.91 | 16.94 | -9031.75 | 9031.77 | 0.00 | |
| 18300.00 | 91.03 | 269.74 | 8844.11 | 16.48 | -9131.74 | 9131.75 | 0.00 | |
| 18400.00 | 91.03 | 269.74 | 8842.31 | 16.03 | -9231.72 | 9231.73 | 0.00 | |
| 18500.00 | 91.03 | 269.74 | 8840.51 | 15.57 | -9331.70 | 9331.71 | 0.00 | |
| 18600.00 | 91.03 | 269.74 | 8838.70 | 15.12 | -9431.68 | 9431.69 | 0.00 | |
| 18700.00 | 91.03 | 269.74 | 8836.90 | 14.67 | -9531.67 | 9531.68 | 0.00 | |
| 18800.00 | 91.03 | 269.74 | 8835.10 | 14.21 | -9631.65 | 9631.66 | 0.00 | |
| 18900.00 | 91.03 | 269.74 | 8833.30 | 13.76 | -9731.63 | 9731.64 | 0.00 | |
| 19000.00 | 91.03 | 269.74 | 8831.50 | 13.30 | -9831.61 | 9831.62 | 0.00 | |
| 19100.00 | 91.03 | 269.74 | 8829.69 | 12.85 | -9931.60 | 9931.61 | 0.00 | |
| 19200.00 | 91.03 | 269.74 | 8827.89 | 12.40 | -10031.58 | 10031.59 | 0.00 | |
| 19279.60 | 91.03 | 269.74 | 8826.46 | 12.03 | -10111.16 | 10111.17 | 0.00 | exit |



Well: WAR CLUB 3-4 FED COM 621H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

| MD | INC | AZI | TVD | NS | EW | VS | DLS | Comment |
|----------|-------|--------|---------|-------|-----------|----------|-----------|---------|
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (°/100ft) | |
| 19300.00 | 91.03 | 269.74 | 8826.09 | 11.94 | -10131.56 | 10131.57 | 0.00 | |
| 19359.60 | 91.03 | 269.74 | 8825.00 | 11.71 | -10191.15 | 10191.16 | 0.00 | BHL |

13-5/8" 5M BOPE & Closed Loop Equipment Schematic



A multibowl wellhead may be used. The BOP will be tested per 43 CFR 3172 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. 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.

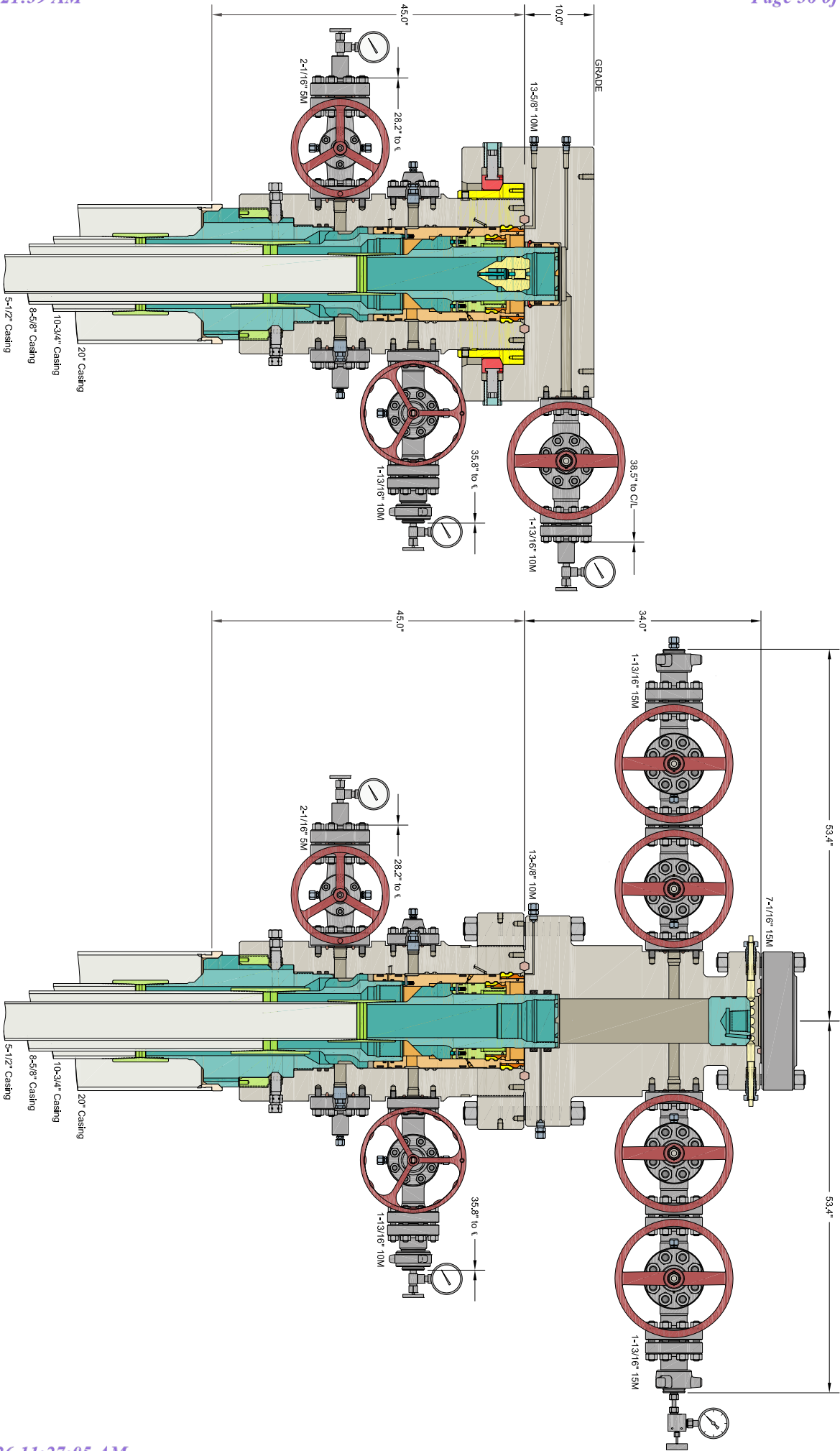
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per 43 CFR 3172.

After running the surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per 43 CFR 3172. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per 43 CFR 3172.

After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.



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ALL DIMENSIONS APPROXIMATE

CACTUS WELLHEAD LLC

DEVON ENERGY CORPORATION
DELAWARE BASIN

10-3/4" x 8-5/8" x 5-1/2" 10M MBU-3T-CFL-R-DBLO Wellhead Sys.
With 8-5/8" And 5-1/2" Mandrel Casing Hangers
And 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head

| | | |
|-------------|------------|---------|
| DRAWN | DLE | 16SEP21 |
| APPRV | | |
| DRAWING NO. | HBE0000595 | |

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. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. This test will at minimum include the Top Pipe Ram, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and BOP shell of the 10M BOPE to 5M for 10 minutes. Additional pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. 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. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, testing the Annular during initial BOP testing to a minimum of 70% RWP and higher than MASP, and pressure testing at a 21-day interval frequency. 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. In the event break testing is not utilized, then a full BOPE test would be conducted.

Devon Energy requests to perform offline BOP stump testing and offline BOPE testing. All pressure-containing and pressure-controlling seals will be tested either online or offline as denoted in the table below and per BLM approval during initial BOP test following test pressure requirements set forth in 43 CFR 3172. Remaining components not tested offline or on the stump will be tested within 72-hours when the BOP is connected to the wellhead. If stump testing exceeds 72-hour window prior to connecting to the wellhead, the BLM will be notified and either stump testing restarted, or the BOP being tested online. 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. In the event stump testing is not utilized, then a full BOPE test would be conducted.

| Components | Offline | Offline, BOPE | Break | Online |
|---|---------|---------------|-------|--------|
| Upper Rams | | X | X | X |
| Blind Rams | | X | | X |
| Lower Rams | | | | X |
| Outside Kill Valve | | X | X | X |
| Inside Kill Valve | | X | X | X |
| Kill Line Check Valve | | X | X | X |
| Inside Choke Valve | | X | X | X |
| HCR | | X | X | X |
| Kill Line | X | | | X |
| Annular | | X | | X |
| Choke Manifold Valves and Hose | X | | | X |
| Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line) | X | | | X |
| Standpipe Valve | X | | | X |
| IBOP (Upper and Lower) | X | | | X |

Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular

Remaining well control equipment components will either be tested offline or online, per BLM approval

Remaining BOPE will be tested online within 72-hours from completing the offline BOPE component testing

Notify the BLM if the online BOPE testing exceeds 72-hours

All Full Tests not completed "Offline" or "Offline, BOPE" are required to be complete Online

Devon requests Break testing as stated above for 5K tests, not including production hole

Annular Preventer will be tested to minimum of 70% RWP and higher than MASP during initial BOP test

Pressure testing is required for pressure-containing connections if the integrity of a pressure seal is broken during a break test

Full Tests required when entering production hole

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

**PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL**

| | |
|-------------------------|--------------------------------------|
| OPERATOR'S NAME: | Devon Energy Production Company LP ▼ |
| LOCATION: | Section 3, T.22 S., R.27 E., NMPM |
| COUNTY: | Eddy County, New Mexico ▼ |

| | |
|-----------------------------|---------------------------|
| WELL NAME & NO.: | War Club 3-4 Fed Com 620H |
| ATS/API ID: | ATS-24-3038 |
| APD ID: | 10400101195 |
| Sundry ID: | N/a |

| | |
|-----------------------------|---------------------------|
| WELL NAME & NO.: | War Club 3-4 Fed Com 621H |
| ATS/API ID: | ATS-24-3037 |
| APD ID: | 10400101197 |
| Sundry ID: | N/a |

| | |
|-----------------------------|---------------------------|
| WELL NAME & NO.: | War Club 3-4 Fed Com 622H |
| ATS/API ID: | ATS-24-3035 |
| APD ID: | 10400101187 |
| Sundry ID: | N/a |

COA

| | | | |
|-------------------------------|--|---|---|
| H2S | Yes | | |
| Potash | None | None | |
| Cave/Karst Potential | Medium | | |
| 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 <input type="checkbox"/> 5 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 type="checkbox"/> Batch Sundry | Waste Prevention None | |
| Special Requirements Variance | <input checked="" type="checkbox"/> BOPE Break Testing <input checked="" type="checkbox"/> Offline BOPE Testing | <input checked="" type="checkbox"/> Offline Cementing | <input type="checkbox"/> Casing Clearance |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **10-3/4 inch** surface casing shall be set at approximately **375 feet** (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt when present, 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.

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. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

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 3976'**.
- 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 285 sxs Class C)**
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

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.

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
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.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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 3500 (70% Working Pressure) 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 **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 **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 43 CFR 3172.6(b)(9) 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 **43 CFR part 3170 Subpart 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline BOPE Testing

Operator has been **(Approved)** to test the BOPE offline.

The BOPE offline testing shall be stationary during pressure testing.

Online BOPE testing should commence within 72 hours of offline BOPE testing completion. Notify the BLM if interval exceeds 72 hours.

Notify the BLM 4hrs prior to offline BOPE testing at **Eddy County: 575-361-2822**.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Intermediate(s) interval**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at **Eddy County: 575-361-2822**.

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

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.

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 of both lead and tail cement, 2) until cement has been in place at least 8 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 43 CFR 3172.6(b)(9) 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 8 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.

Long Vo (LVO) 2/26/2025



**Devon Energy Center
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102-5015**

Hydrogen Sulfide (H₂S) Contingency Plan

For

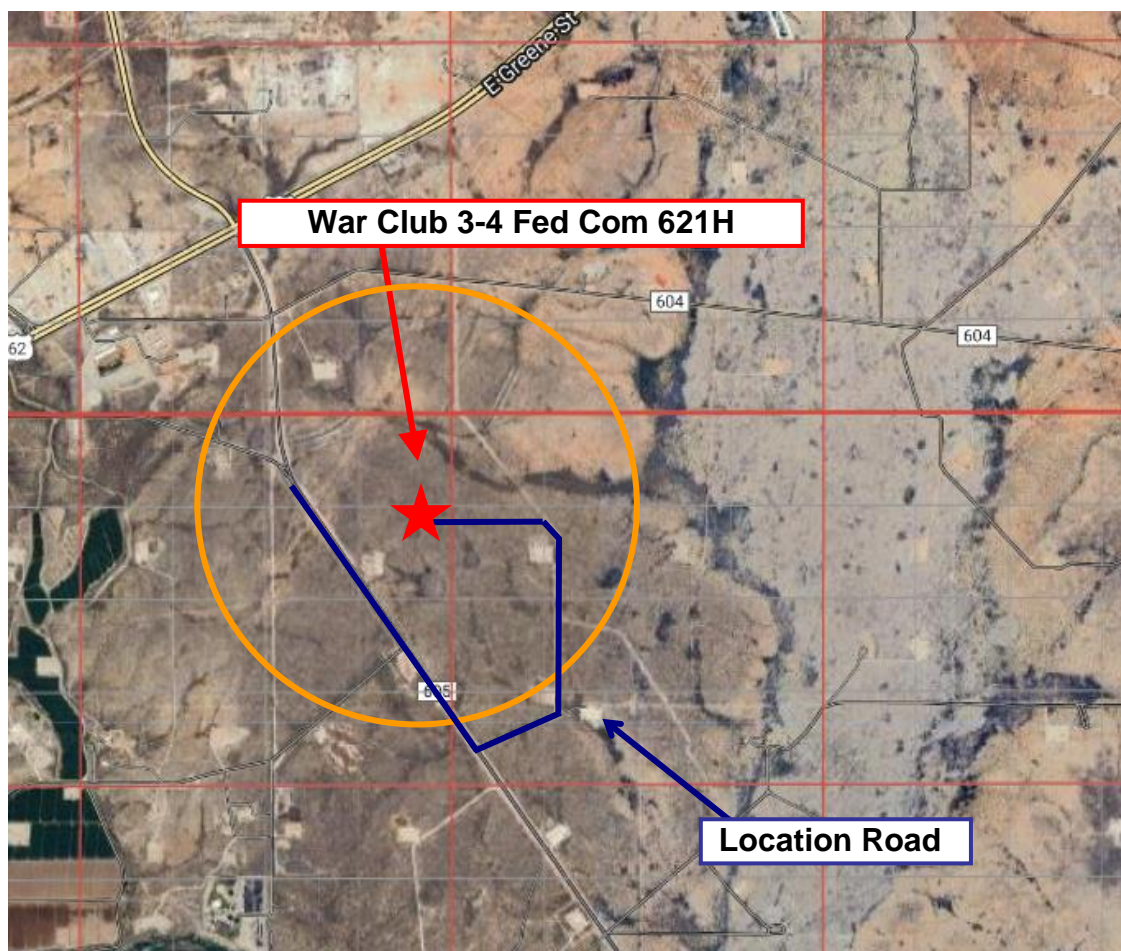
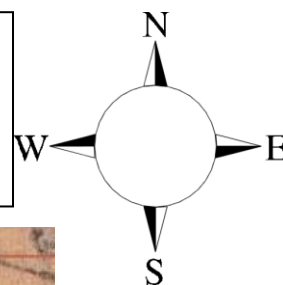
War Club 3-4 Fed Com 621H

**Sec-3 T-22S R-27E
937' FNL & 400' FEL
LAT. = 32.426635° N (NAD83)
LONG = 104.170302° W**

Eddy County NM

War Club 3-4 Fed Com 621H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm ROE = 3000' (Radius of Exposure)
 100 ppm H₂S concentration shall trigger activation of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the “buddy system” to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

| Common Name | Chemical Formula | Specific Gravity | Threshold Limit | Hazardous Limit | Lethal Concentration |
|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-----------------------------|
| Hydrogen Sulfide | H ₂ S | 1.189 Air = 1 | 10 ppm | 100 ppm/hr | 600 ppm |
| Sulfur Dioxide | SO ₂ | 2.21 Air = 1 | 2 ppm | N/A | 1000 ppm |

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan.

There will be weekly H₂S and well control drills for all personnel in each crew.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment

- A. Flare line
- B. Choke manifold – Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 10 ppm. Sensor locations:

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

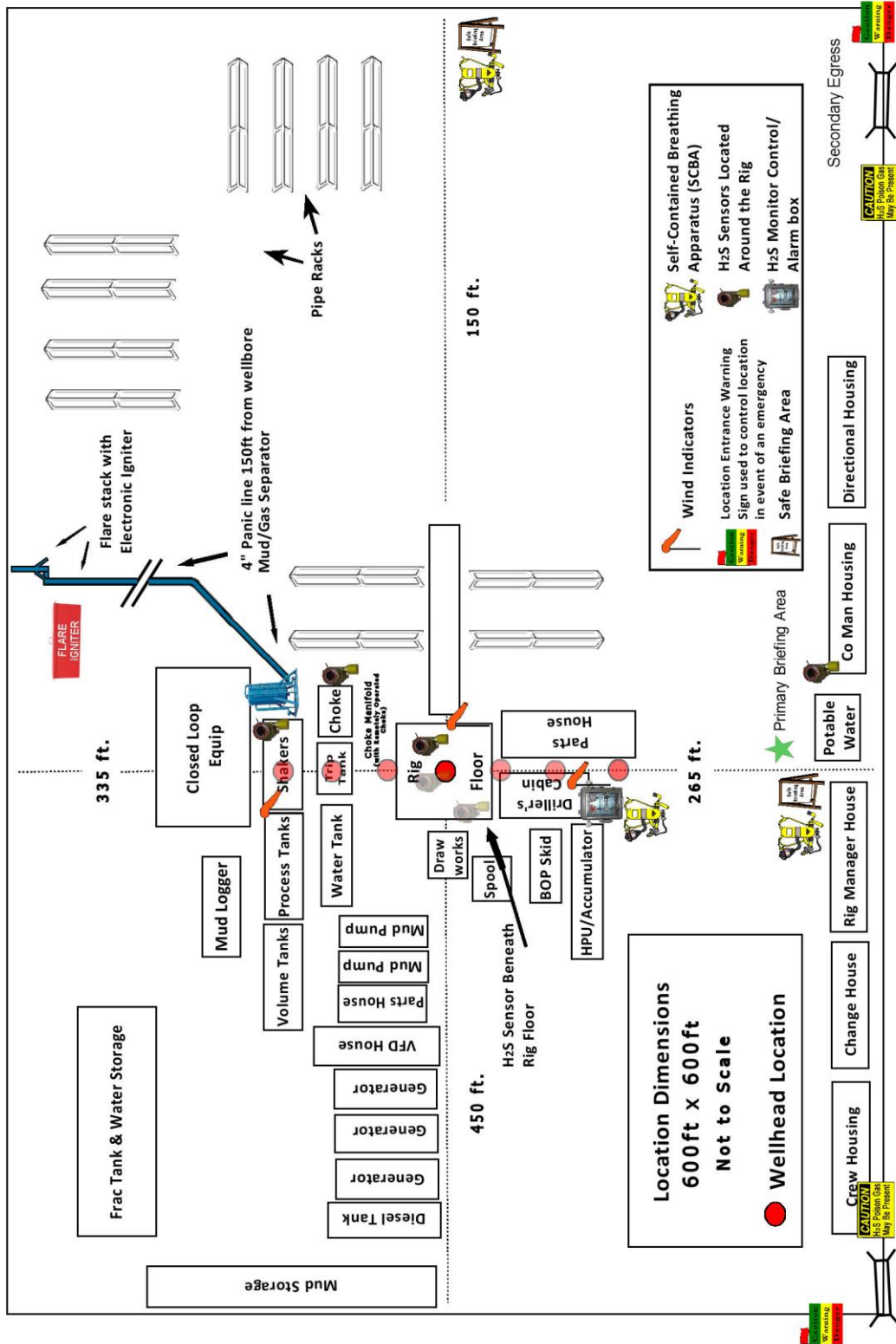
| Devon Energy Corp. Company Call List | | | |
|--|------------------|---------------------|---------------------------|
| Employee/Company Contact Representative | Position | Phone Number | After Hours Number |
| Jonathan Fisher (North) | Drilling Manager | 832-967-7912 | |
| Jason Hildebrand (South) | Drilling Manager | 405-552-6514 | |
| Rich Downey | Drilling VP | 405-228-2415 | |
| Josh Harvey | EHS Manager | 405-228-2440 | 918-500-5536 |
| Laura Wright | EHS Supervisor | 405-552-5334 | 832-969-8145 |
| Robert Glover | EHS Professional | 575-703-5712 | 575-703-5712 |
| Lane Frank | Lead EHS | 580-579-7052 | 580-579-7052 |
| Rickey Porter | Lead EHS | 903-720-8315 | 903-720-8315 |
| Ronnie Handy | Lead EHS | 918-839-2046 | 918-839-2046 |
| Brock Vise | Lead EHS | 918-413-3291 | 918-413-3291 |

| Agency Call List | | |
|----------------------------------|---|-------------------------------|
| <u>Lea County (575)</u> | Hobbs | |
| | Lea County Communication Authority | 397-9265 |
| | State Police | 885-3138 |
| | City Police | 397-9265 |
| | Sheriff's Office | 396-3611 |
| | Ambulance | 911 |
| | Fire Department | 397-9308 |
| | LEPC (Local Emergency Planning Committee) | 393-2870 |
| | NMOCD | 393-6161 |
| | US Bureau of Land Management (Closed) | 393-0002 |
| | | |
| | | |
| <u>Eddy County (575)</u> | Carlsbad | |
| | State Police | 885-3137 |
| | City Police | 885-2111 |
| | Sheriff's Office | 887-7551 |
| | Ambulance | 911 |
| | Fire Department | 885-3125 |
| | LEPC (Local Emergency Planning Committee) | 887-3798 |
| | US Bureau of Land Management | 234-5972 |
| | NM Emergency Response Commission (Santa Fe) | (505) 476-9600 |
| | 24 HR | (505) 827-9126 |
| | National Emergency Response Center | (800) 424-8802 |
| | National Pollution Control Center: Direct | (703) 872-6000 |
| | For Oil Spills | (800) 280-7118 |
| | Emergency Services | |
| | Wild Well Control | (281) 784-4700 |
| | Cudd Pressure Control | (915) 699-0139 (915) 563-3356 |
| | Halliburton | (575) 746-2757 |
| | B. J. Services | (575) 746-3569 |
| | Native Air – Emergency Helicopter – Hobbs | (575) 347-9836 |
| | For Air Ambulance - Eddy County Dispatch | (575)-616-7155 |
| <u>Give GPS position:</u> | For Air Ambulance - Lea County (LCCA) | (575)-397-9265 |
| | Poison Control (24/7) | (800) 222-1222 |
| | Oil & Gas Pipeline 24 Hour Service | (800) 364-4366 |
| | NOAA – Website - www.nhc.noaa.gov | |
| | National Pollution Control Center | 202-795-6958 |
| | NPCC – Oil Spills | 800-280-7118 |
| | | |
| | | |

Prepared in conjunction with
Dave Small



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



| | | |
|---------------------------------|--|-----------------------------------|
| Well Name: WAR CLUB 3-4 FED COM | Well Location: T22S / R27E / SEC 3 / LOT 1 / 32.426635 / -104.170302 | County or Parish/State: EDDY / NM |
| Well Number: 621H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM0473303A | Unit or CA Name: | Unit or CA Number: |
| US Well Number: | Operator: DEVON ENERGY PRODUCTION COMPANY LP | |

Notice of Intent

Sundry ID: 2885854

| | |
|--|------------------------------|
| Type of Submission: Notice of Intent | Type of Action: APD Change |
| Date Sundry Submitted: 12/09/2025 | Time Sundry Submitted: 09:44 |
| Date proposed operation will begin: 12/08/2025 | |

Procedure Description: Devon Energy Production Company, L.P. respectfully requests the following changes to the approved APD: Casing program change: Surface, Intermediate, & Production casing changes. Cement volume changes to accommodate casing change. Break test and offline cementing variance in regards to intermediate and production casing. Please see attached Drill plan, spec sheets, break test, and offline cementing.

NOI Attachments

Procedure Description

- WAR_CLUB_3_4_FED_COM_621H_12_22_2025_20251222103201.pdf
- Production_Break_Testing_Variance___WFMP___Shallower___BLM_v4_20251208150443.pdf
- MB_Wellhd_5M_13.375_8.625_5.5_20251208150442.pdf
- 5.5_20lb_P110_ICY_Wedge_461_20251208150442.pdf
- 13.375_54.5lb_J55_20251208150442.pdf
- Offline_Production_Cement___WFMP___Shallower___BLM_v5_20251208150442.pdf
- Annular_Variance___Preventer_Summary_20251208150442.pdf
- 8.625_32_lb_J55_BTC_TXP___SC_20251208150442.pdf

| | | |
|---------------------------------|--|-----------------------------------|
| Well Name: WAR CLUB 3-4 FED COM | Well Location: T22S / R27E / SEC 3 / LOT 1 / 32.426635 / -104.170302 | County or Parish/State: EDDY / NM |
| Well Number: 621H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM0473303A | Unit or CA Name: | Unit or CA Number: |
| US Well Number: | Operator: DEVON ENERGY PRODUCTION COMPANY LP | |

Conditions of Approval

Specialist Review

War_Club_3_4_Fed_Com_621H_Sundry_ID_2885854_20260106145746.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: SHANDEE THOMAS | Signed on: DEC 22, 2025 10:31 AM |
| Name: DEVON ENERGY PRODUCTION COMPANY LP | |
| Title: Regulatory Professional | |
| Street Address: 333 W SHERDIAN AVE | |
| City: OKLAHOMA CITY | State: OK |
| Phone: (405) 552-7853 | |
| Email address: SHANDEE.THOMAS@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: 01/06/2026 |
| Signature: Long Vo | |

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

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

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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be 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 recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has 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

Location of Well

0. SHL: LOT 1 / 937 FNL / 400 FEL / TWSP: 22S / RANGE: 27E / SECTION: 3 / LAT: 32.426635 / LONG: -104.170302 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 3 / 887 FNL / 2478 FWL / TWSP: 22S / RANGE: 27E / SECTION: 4 / LAT: 32.4267274 / LONG: -104.1953613 (TVD: 8869 feet, MD: 16900 feet)

PPP: LOT 1 / 880 FNL / 100 FEL / TWSP: 22S / RANGE: 27E / SECTION: 3 / LAT: 32.42676 / LONG: -104.169327 (TVD: 8906 feet, MD: 9021 feet)

PPP: LOT 3 / 872 FNL / 2640 FEL / TWSP: 22S / RANGE: 27E / SECTION: 3 / LAT: 32.426775 / LONG: -104.177561 (TVD: 9005 feet, MD: 9373 feet)

BHL: LOT 4 / 880 FNL / 20 FWL / TWSP: 22S / RANGE: 27E / SECTION: 4 / LAT: 32.426705 / LONG: -104.203332 (TVD: 8825 feet, MD: 19360 feet)

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WAR CLUB 3-4 FED COM 621H

1. Geologic Formations

| | | | |
|---------------|-------|------------------------------|-----|
| TVD of target | 8826 | Pilot hole depth | N/A |
| MD at TD: | 19351 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|----------------------|---------------------|------------------------------------|----------|
| Rustler | 266 | | |
| Salt | 417 | | |
| Base of Salt | 736 | | |
| Delaware | 2216 | | |
| Cherry Canyon | 2921 | | |
| Brushy Canyon | 3976 | | |
| 1st Bone Spring Lime | 5360 | | |
| Bone Spring 1st | 6584 | | |
| Bone Spring 2nd | 7377 | | |
| 3rd Bone Spring Lime | 7589 | | |
| Bone Spring 3rd | 8570 | | |
| Wolfcamp | 8906 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

WAR CLUB 3-4 FED COM 621H

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) |
| 17 1/2 | 13 3/8 | 54 1/2 | J-55 | BTC | 0 | 340 | 0 | 340 |
| 9 7/8 | 8 5/8 | 32 | J-55 | TXP SC 80 | 0 | 2250 | 0 | 2250 |
| 7 7/8 | 5 1/2 | 20 | P110ICY | Wedge 461 | 0 | 19351 | 0 | 8826 |

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

3. Cementing Program

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

| Casing | # Sks | TOC | Wt. ppg | Yld (ft3/sack) | Slurry Description |
|------------|-------|------|---------|----------------|----------------------------------|
| Surface | 283 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 166 | Surf | 13.0 | 2.3 | Lead: Class C Cement + additives |
| | 67 | 1750 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 391 | 1750 | 9 | 3.27 | Lead: Class H / C + additives |
| | 1441 | 8462 | 13.2 | 1.44 | Tail: Class H / C + additives |

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

WAR CLUB 3-4 FED COM 621H

4. Pressure Control Equipment (Three String Design)

| Well Pressure Control Equipment (Pilot Sizing 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 | | | | | |

WAR CLUB 3-4 FED COM 621H

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 |
| | Density |
| X | CBL |
| | Mud log |
| | PEX |
| | Int. shoe to KOP |
| | Int. shoe to KOP |
| | Production casing |
| | Intermediate shoe to TD |

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 4819 |
| 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. |

WAR CLUB 3-4 FED COM 621H

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

BOPE Break Test Variance

10/2025
REV4



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BOPE Break Test Variance (Less than 12,000' TVD)

Devon is respectfully pursuing a variance to the minimum standards to allow a testing schedule of the blow out prevention equipment (BOPE) along with Stump Testing, Batch Drilling & Offline Cementing operations to include the following:

- Conduct a full 10k BOPE and 5k Annular test upon initial installation on the pad.
- If the rig has the ability to do a Stump Test, this is permitted for initial installation.
- Perform full BOPE tests every 21 days thereafter.
- Intermediate & Production Break-testing is permitted to the base of the Wolfcamp or shallower (limited to 12,000' TVD).
- Once the well is secured and BLM has been notified, disconnect the BOP and walk the rig to the next well on the pad.
 - If any unusual events occur during drilling, tripping, or casing operations, break-testing will not be performed
 - If offset fracturing is observed within 1.0 mile in the same producing horizon, break-testing in the production section will not be performed.
- Each rig requesting a break-test variance must be capable of picking up the BOP without damaging components, using winches and following API Standard 53 (Fifth Edition, December 2018, Annex C, Table C.4), which recognizes break-testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular: During each full BOPE test and at least weekly.
 - Pipe Rams: On every trip and on trip-ins where a FIT is required.
 - Blind Rams: On every trip.
- Break-testing the BOP allows for offline cementing and/or remediation (if needed) of any surface, intermediate, or production sections, in accordance with the attached offline cementing support documentation.
- After securing the well section, disconnect the BOP from the wellhead and walk it with the rig to another well on the pad.
- Install a TA cap per Cactus Wellhead procedures and monitor casing pressure via the valve on the TA cap.

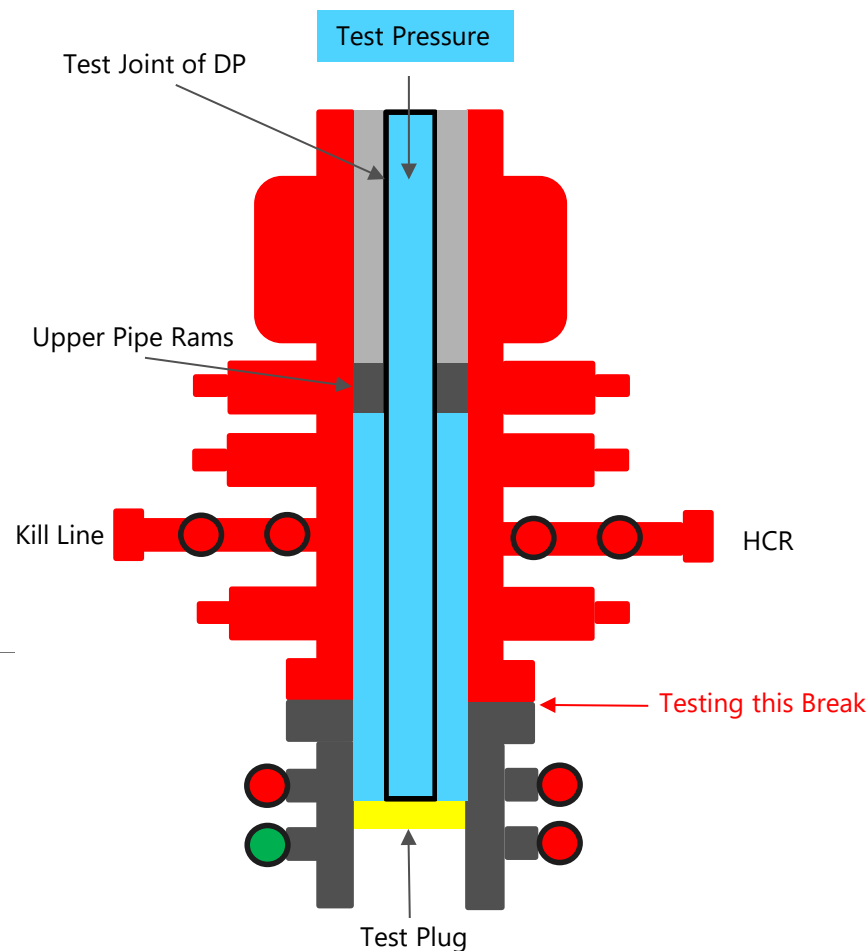
BOPE Break Test Variance (Less than 12,000' TVD)

Test Procedure:

1. Makeup test plug on DP and set in Wellhead.
2. Close Upper Pipe Rams around DP.
3. Close Kill Line & HCR.
4. Open wellhead valve to ensure if pressure leaks past plug, it won't pressure up wellbore.
5. Tie into top of DP at Rig Floor. Fill with water and test Break + Pipe Rams to 250psi low and 10,000psi high.
6. Bleed off pressure.
7. Open Upper Pipe Rams, close wellhead valve and lay down test plug and DP.

Component Table:

| Components | Offline | Offline, BOPE | Break | Online |
|---|---------|---------------|-------|--------|
| Upper Rams | | X | X | X |
| Blind Rams | | X | | X |
| Lower Rams | | | | X |
| Outside Kill Valve | | X | X | X |
| Inside Kill Valve | | X | X | X |
| Kill Line Check Valve | | X | X | X |
| Inside Choke Valve | | X | X | X |
| HCR | | X | X | X |
| Kill Line | X | | | X |
| Annular | | X | X | X |
| Choke Manifold Valves and Hose | X | | | X |
| Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line) | X | | | X |
| Standpipe Valve | X | | | X |
| IBOP (Upper and Lower) | X | | | X |



Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular

Remaining well control equipment components will either be tested offline or online, per BLM approval

Remaining BOPE will be tested online within 72 hours from completing the offline BOPE component testing

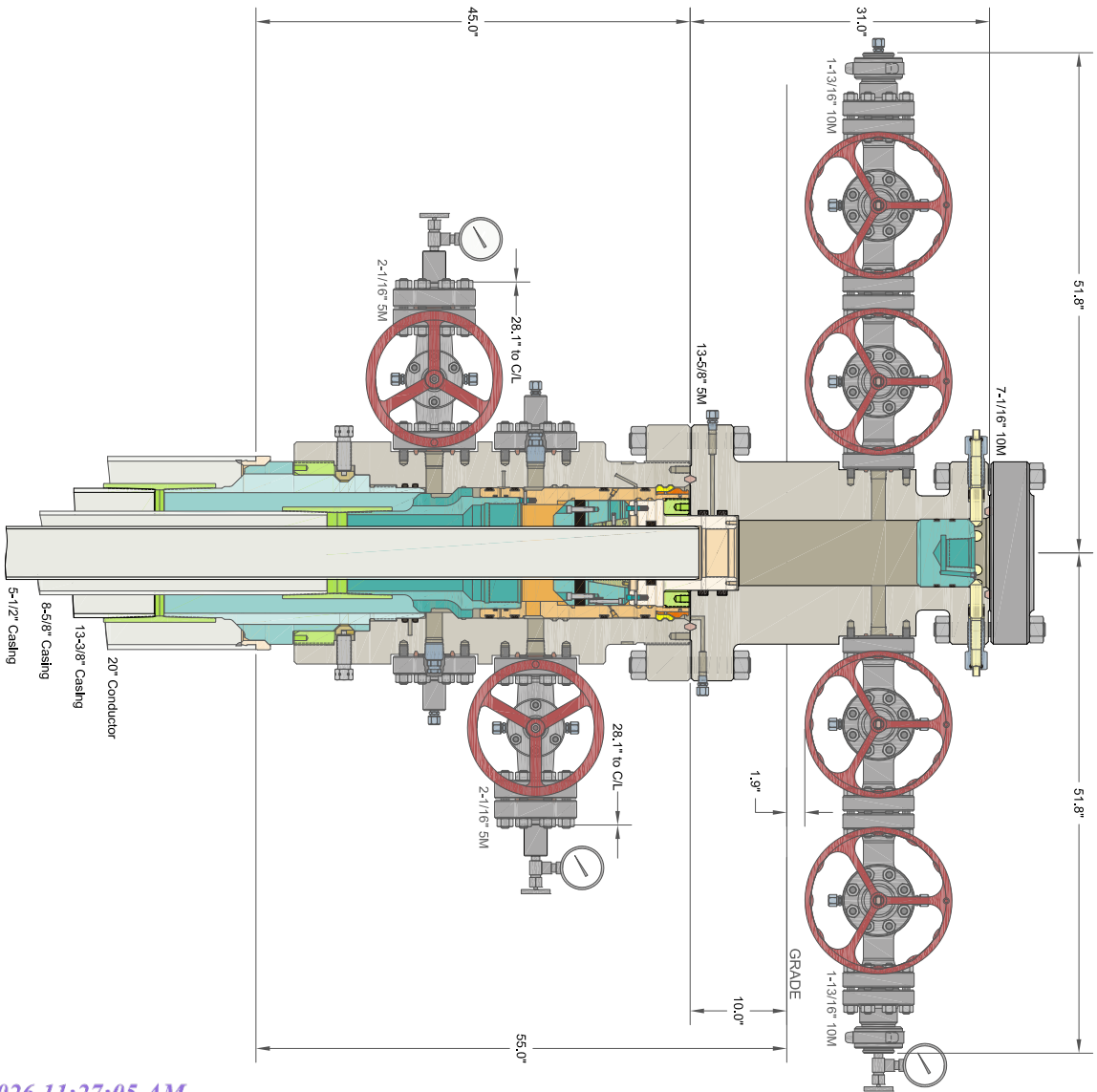
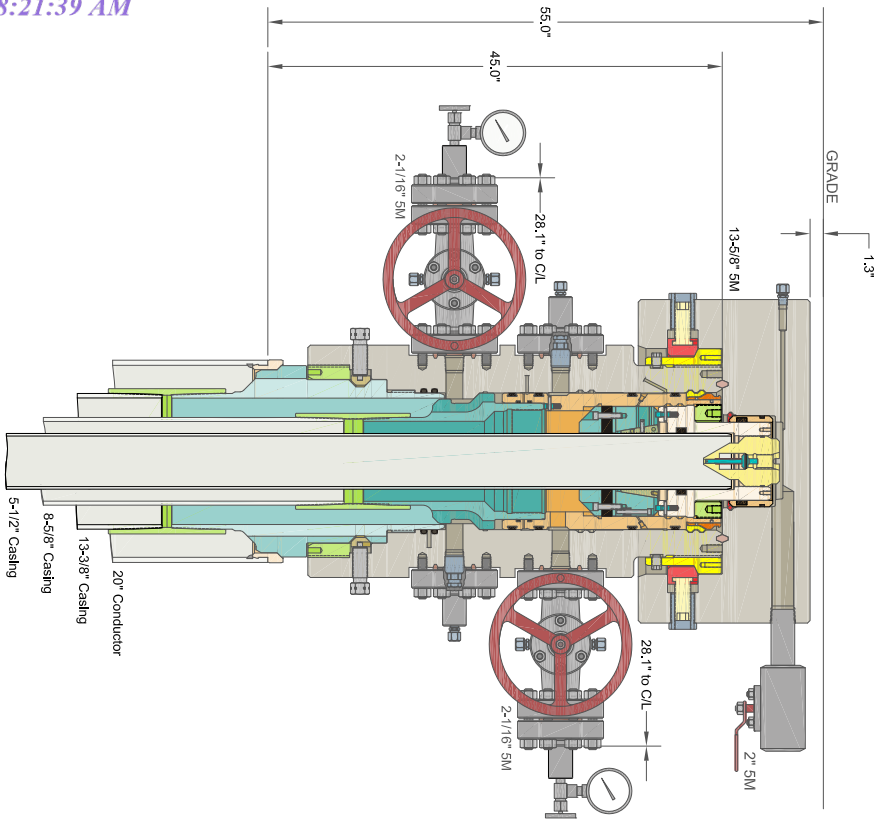
Notify the BLM if the online BOPE testing exceeds 72 hours

All Full Tests not completed "Offline" or "Offline, BOPE" are required to be completed Online

Thank you.



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CACTUS WELLHEAD LLC

20\" x 13-3/8\" x 8-5/8\" x 5-1/2\" MBU-3T-CFL-R-DBLO Wellhead Sys.
With Quick Connect Top TA Cap, 5-1/2\" Emergency Slip Hanger
And 13-5/8\" 5M x 7-1/16\" 10M CTH-DBLHPS Tubing Head

DEVON ENERGY CORPORATION
DELAWARE BASIN

ALL DIMENSIONS APPROXIMATE

| | | |
|-------------|----------|---------|
| DRAWN | DLE | 25FEB19 |
| APPRV | | |
| DRAWING NO. | SDT-1929 | |



TenarisHydril Wedge 461®



| Coupling | Pipe Body |
|----------------------|----------------------|
| Grade: P110-ICV | Grade: P110-ICV |
| Body: White | 1st Band: White |
| 1st Band: Pale Green | 2nd Band: Pale Green |
| 2nd Band: - | 3rd Band: Pale Green |
| 3rd Band: - | 4th Band: - |
| | 5th Band: - |
| | 6th Band: - |

| | | | | | |
|----------------------|-----------|-----------------|--------------|-------|----------|
| Outside Diameter | 5.500 in. | Wall Thickness | 0.361 in. | Grade | P110-ICV |
| Min. Wall Thickness | 87.50 % | Pipe Body Drift | API Standard | Type | Casing |
| Connection OD Option | REGULAR | | | | |

Pipe Body Data

| Geometry | | | | Performance | |
|----------------|-------------|------------------|-------------|------------------------------|--------------|
| Nominal OD | 5.500 in. | Wall Thickness | 0.361 in. | Body Yield Strength | 729 x1000 lb |
| Nominal Weight | 20.00 lb/ft | Plain End Weight | 19.83 lb/ft | Min. Internal Yield Pressure | 14,360 psi |
| Drift | 4.653 in. | OD Tolerance | API | SMYS | 125,000 psi |
| Nominal ID | 4.778 in. | | | Collapse Pressure | 12,300 psi |

Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|----------------------|-----------|----------------------------|--------------|-------------------------|--------------|
| Connection OD | 6.300 in. | Tension Efficiency | 100 % | Minimum | 17,000 ft-lb |
| Coupling Length | 7.714 in. | Joint Yield Strength | 729 x1000 lb | Optimum | 18,000 ft-lb |
| Connection ID | 4.778 in. | Internal Pressure Capacity | 14,360 psi | Maximum | 21,600 ft-lb |
| Make-up Loss | 3.775 in. | Compression Efficiency | 100 % | Operation Limit Torques | |
| Threads per inch | 3.40 | Compression Strength | 729 x1000 lb | Operating Torque | 43,000 ft-lb |
| Connection OD Option | Regular | Max. Allowable Bending | 104 °/100 ft | Yield Torque | 51,000 ft-lb |
| | | External Pressure Capacity | 12,300 psi | Buck-On | |
| | | Coupling Face Load | 329,000 lb | Minimum | 21,600 ft-lb |
| | | | | Maximum | 23,100 ft-lb |

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.415 (23.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

For the latest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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13-3/8" 54.50# .380 J-55

Dimensions (Nominal)

| | | |
|------------------|--------|--------|
| Outside Diameter | 13.375 | in. |
| Wall | 0.380 | in. |
| Inside Diameter | 12.615 | in. |
| Drift | 12.459 | in. |
| | | |
| Weight, T&C | 54.500 | lbs/ft |
| Weight, PE | 52.790 | lbs/ft |

Performance Ratings, Minimum

| | | |
|---------------------------|------|----------|
| Collapse, PE | 1130 | psi |
| | | |
| Internal Yields Pressure | | |
| PE | 2730 | psi |
| STC | 2730 | PSI |
| BTC | 2730 | psi |
| | | |
| Yield Strength, Pipe Body | 853 | 1000 lbs |
| | | |
| Joint Strength, STC | 514 | 1000 lbs |
| Joint Strength, BTC | 909 | 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.

Devon Energy Offline Production Cementing

10/2025
REV5



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Offline Production Cementing Variance

Devon is respectfully pursuing a variance to the minimum standards to allow for the cementing of the Production Casing offline in the Wolfcamp and shallower producing horizons.

To ensure personnel safety and well integrity, strict eligibility requirements will be enforced, and a detailed procedure will be followed.

The following slides outline the eligibility requirements, offline procedure, schematics and pressure ratings.

Offline Production Eligibility

Offline Punch List:

The well must meet all criteria to qualify for offline cementing.

- A) Well is in the Wolfcamp or shallower bench.
- B) No unusual events were observed during drilling, tripping or casing operations.
- C) Casing successfully landed out on casing hanger (fluted or solid).
- D) Devon Company Men with Well Control certifications will monitor returns (bbl in / bbl out) to ensure well control is maintained.
- E) Rig Manager will oversee the walking of the rig to the next well.
- F) All barriers **MUST** test and at no point will there be less than 2 barriers in place.
- G) No offset frac operations occurring within 1.0 mile in the same bench.
- H) Once all criteria are met and BLM is notified, Devon may proceed with ND BOP and continue offline operations.

Note: Devon will NOT drill out the next deep intermediate until cementing on the offline well is complete.

Offline Procedure

- **Devon's Proposed Production Offline Procedure:**
- Run casing and perform negative pressure test during casing run to verify integrity of float equipment's 10M backpressure valves.
- Review Devon's "Punch List" to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with KWM and perform flow check ensuring well is static.
 - If well is not static, build pressure or acting abnormal in any way - abort offline operations.
- Install 10M packoff and test same. After successful test, engage locking ring and L/D running tool.
- Install 10M backpressure valve in WH from rig floor.
 - Note: 3 Casing barriers and 2 Annular barriers currently in place.
- Once well is secured and BLM notified, ND BOP and walk rig to next well on pad.
 - If ANY barrier fails to test – the well will be cemented online.
 - Devon Company Man and Devon Cementer will oversee Cementing Operations
 - Rig Manager will walk the rig to the next well.
 - Drill out operations on next deep intermediate will not begin until cementing operations have concluded on the offline well.
- Install 10M Gate Valve and Cactus WH adapter.
- Test connection between WH adapter seals, hanger neck, and ring gasket to 10,000psi.
- Open Frac Valve and remove BPV.
- RU cement head, cement iron, return lines and test same.
- Once all equipment is rigged up, barriers tested and ready to cement, notify BLM of intent to Cement Offline.

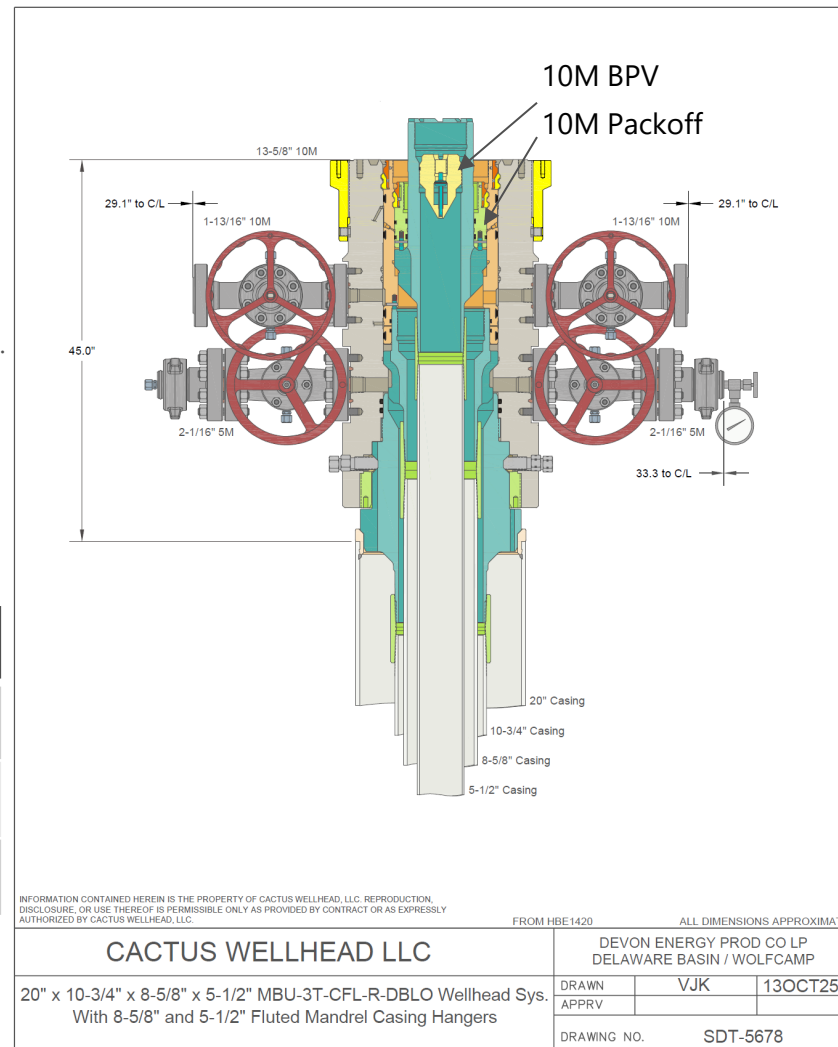
Offline Procedure

- **Devon's Proposed Production Offline Procedure (continued):**
- Perform offline cement job.
- If an influx is observed during the cement job:
 - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold and hold appropriate backpressure to circulate out influx.
 - If annular surface pressure approaches 25% of the tested pressure of the surface return equipment, or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the 10M casing valves.*
- Bump plug and ensure floats are holding.
 - If plug does not bump or floats do not hold, either the Gate Valve or Cement Head may be closed while we WOC.
- RD cement head and install BPV.
- Remove Gate Valve and WH adapter.
- Install TA Cap with pressure gauge and test same.
- ***Note*** - If the well is within the KPLA, and an uncemented annulus between the Production and Intermediate casing has been utilized; then cement shall be squeezed down both casing valves within 180 days of the well's completion and displaced with a treated fresh water to a TOC below the potash interval and marker bed number 126, with a minimum of 500' tie-back inside the Intermediate Casing as per R111Q.

*Note – This hasn't been observed

Offline Procedure – Detailed

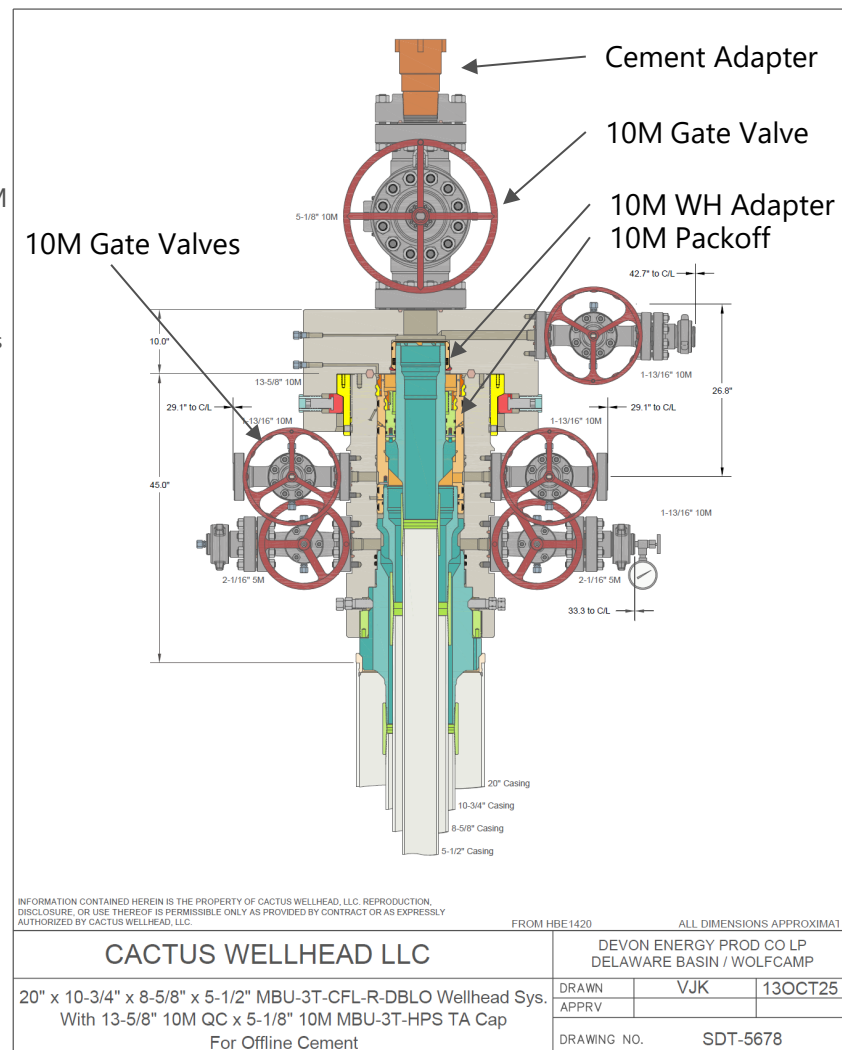
- Run casing and perform negative pressure test during casing run to verify integrity of float equipment's 10,000psi backpressure valves.
 - Review Devon's "Punch List" to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with KWM and perform flow check ensuring well is static.
- Install packoff rated to 10,000psi and test same. After successful test, engage locking ring and L/D running tool.
- Install backpressure valve in WH from rig floor.
 - Note: 3 Casing barriers and 2 Annular barriers currently in place.
- Once well is secured and BLM notified, ND BOP and walk rig to next well on pad.
 - If ANY barrier fails to test – the well will be cemented online.
 - Devon PIC and Devon Cementer will oversee Cementing Operations
 - Rig Manager will walk the rig to the next well.
 - Drill out operations on next deep intermediate will not begin until cementing operations have concluded on the offline well.



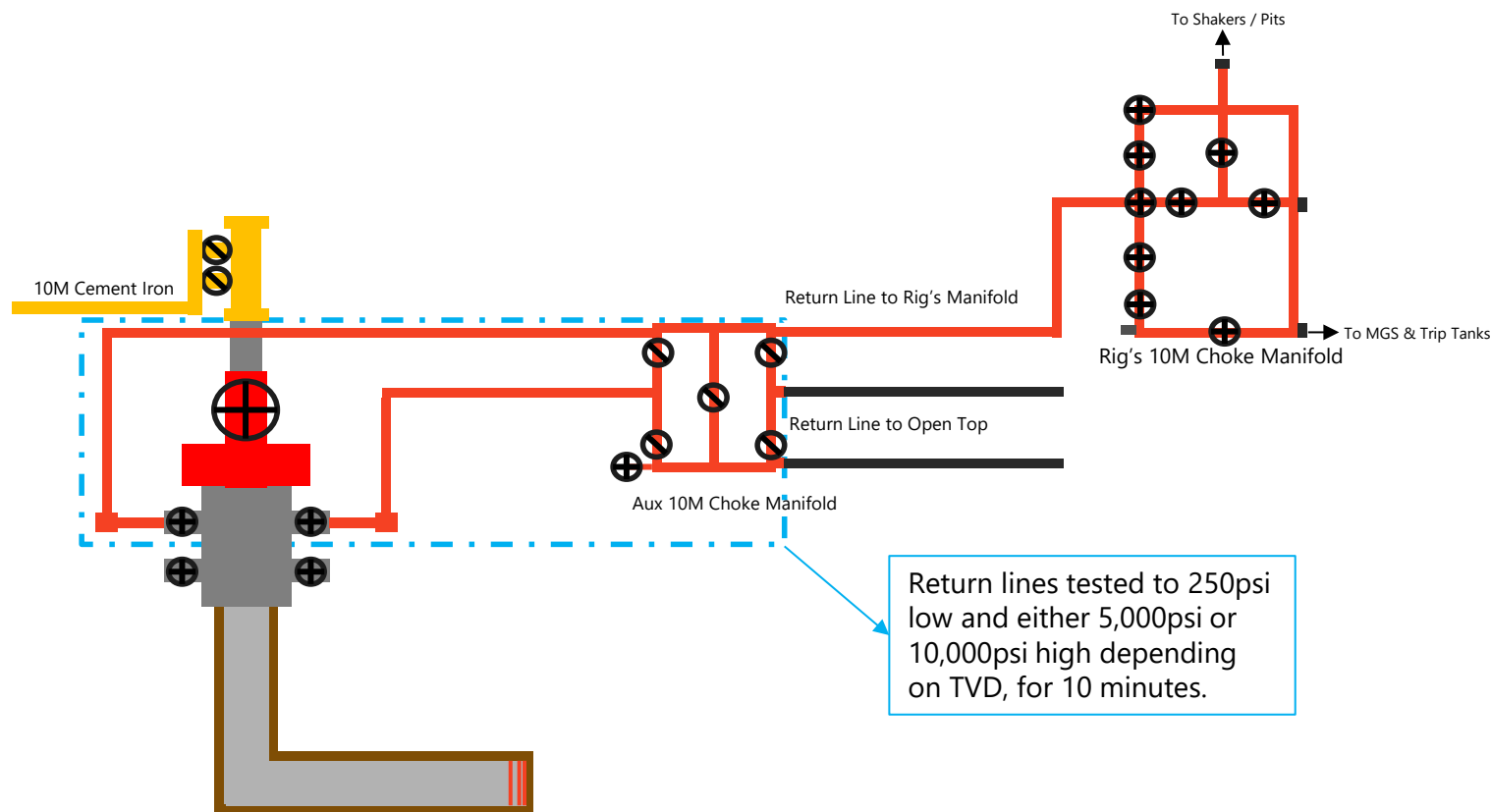
| Casing Barrier | Rating | Backside Barrier | Rating |
|-------------------|-----------|------------------|-----------|
| BPV | 10,000psi | KWM | > BHP |
| KWM | > BHP | Packoff | 10,000psi |
| Float Valves (x3) | 10,000psi | | |

Offline Procedure – Detailed

- Install 10M Frac Valve and Cactus WH adapter.
- Test connection between WH adapter seals, hanger neck, and ring gasket to 10,000psi.
- Open Frac Valve and remove BPV.
- RU cement head, cement iron, return lines and test same.
- Once all equipment is rigged up, barriers tested and ready to cement, notify BLM of intent to Cement Offline.
- Perform offline cement job.
- If an influx is observed during the cement job:
 - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold and hold appropriate backpressure to circulate out influx.
 - If annular surface pressure approaches 25% of the tested pressure of the surface return equipment, or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the 10M casing valves.
- Bump plug and ensure floats are holding.
 - If plug does not bump or floats do not hold, either the Gate Valve or Cement Head may be closed while we WOC.
- RD cement head and install BPV.
- Remove Gate Valve and WH adapter.
- Install TA Cap with pressure gauge and test same.



Offline Flow Path



⊕ 10M Valve / Choke

⊖ 10M Low Torq

Note:

- All lines are 10M rated and tested to **5,000psi for wells less than 12,000' TVD**
- All lines are 10M rated and tested to **10,000psi for wells greater than 12,000' TVD**
- Minimum of 2 barriers in place at ALL times
- Never had to circulate out an influx during an Offline job

Thank you.



Devon Energy Annular Preventer Summary

1. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

6-3/4" Production hole section, 10M requirement

| Component | OD | Preventer | RWP |
|-----------------------------|-----------|--------------------------------------|-----|
| Drillpipe | 4.5" | Fixed lower 4.5" Upper 4.5-7" VBR | 10M |
| HWDP | 4.5" | Fixed lower 4.5" Upper 4.5-7" VBR | 10M |
| Drill collars and MWD tools | 4.75" | Upper 4.5-7" VBR | 10M |
| Mud Motor | 4.75" | Upper 4.5-7" VBR | 10M |
| Production casing | 5.5" | Upper 4.5-7" VBR | 10M |
| ALL | 0-13-5/8" | Annular | 5M |
| Open-hole | - | Blind Rams | 10M |

VBR = Variable Bore Ram. Compatible range listed in chart.

2. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission their operating pressure limit. The operator may chose an operating pressure less than or equal to RWP, but in no case will it exceed the RWP of the annular preventer.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

Devon Energy Annular Preventer Summary

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

Devon Energy Annular Preventer Summary

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram.
 - e. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram.
 - d. Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - h. Regroup and identify forward plan
3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper pipe ram.
 - f. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



TXP[®] BTC - SC82 - AD



| Coupling | Pipe Body |
|---------------------|------------------------|
| Grade: J55 (Casing) | Grade: J55 (Casing) |
| Body: Bright Green | 1st Band: Bright Green |
| 1st Band: White | 2nd Band: - |
| 2nd Band: - | 3rd Band: - |
| 3rd Band: - | 4th Band: - |
| Special | 5th Band: - |
| Clearance 82: Black | 6th Band: - |

| | | | | | |
|----------------------|--------------|-----------------|-------------------|-------|--------------|
| Customer | Devon Energy | Wall Thickness | 0.352 in. | Grade | J55 (Casing) |
| Outside Diameter | 8.625 in. | Pipe Body Drift | Alternative Drift | Type | Casing |
| Min. Wall Thickness | 87.50 % | | | | |
| Connection OD Option | SC82 | | | | |

Pipe Body Data

| Geometry | | | | Performance | |
|----------------|-------------|------------------|-------------|------------------------------|--------------|
| Nominal OD | 8.625 in. | Wall Thickness | 0.352 in. | Body Yield Strength | 503 x1000 lb |
| Nominal Weight | 32.00 lb/ft | Plain End Weight | 31.13 lb/ft | Min. Internal Yield Pressure | 3930 psi |
| Drift | 7.875 in. | OD Tolerance | API | SMYS | 55,000 psi |
| Nominal ID | 7.921 in. | | | Collapse Pressure | 2530 psi |

Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|----------------------|------------|----------------------------|--------------|-------------------------|--------------|
| Connection OD | 9.027 in. | Tension Efficiency | 82 % | Minimum | 16,440 ft-lb |
| Coupling Length | 10.825 in. | Joint Yield Strength | 412 x1000 lb | Optimum | 18,270 ft-lb |
| Connection ID | 7.921 in. | Internal Pressure Capacity | 3340 psi | Maximum | 20,100 ft-lb |
| Make-up Loss | 4.891 in. | Compression Efficiency | 100 % | Operation Limit Torques | |
| Threads per inch | 5 | Compression Strength | 503 x1000 lb | Operating Torque | 20,100 ft-lb |
| Connection OD Option | SC82 | Max. Allowable Bending | 23 °/100 ft | Yield Torque | 23,700 ft-lb |
| | | External Pressure Capacity | 2530 psi | | |
| | | Coupling Face Load | 120,000 lb | | |

Notes

This connection is fully interchangeable with:
TXP[®] BTC - 8.625 in. - 0.4 (36.00) / 0.45 (40.00) / 0.5 (44.00) / 0.557 (49.00) in. (lb/ft)
Connections with Dopeless[®] Technology are fully compatible with the same connection in its doped version
Standard coupling design comes with optimized 20° bevel.
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Preliminary Data Sheet - Product under development. Once product assessment is completed a final data sheet will be issued.
Connection performance values are related to structural capabilities. For sealability-related performance information, request the Connection Service Envelope from your local Tenaris Representative.

For the latest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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| | | |
|---------------------------------|--|-----------------------------------|
| Well Name: WAR CLUB 3-4 FED COM | Well Location: T22S / R27E / SEC 3 / LOT 1 / 32.426635 / -104.170302 | County or Parish/State: EDDY / NM |
| Well Number: 621H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM0473303A | Unit or CA Name: | Unit or CA Number: |
| US Well Number: | Operator: DEVON ENERGY PRODUCTION COMPANY LP | |

Notice of Intent

Sundry ID: 2885854

| | |
|--|------------------------------|
| Type of Submission: Notice of Intent | Type of Action: APD Change |
| Date Sundry Submitted: 12/09/2025 | Time Sundry Submitted: 09:44 |
| Date proposed operation will begin: 12/08/2025 | |

Procedure Description: Devon Energy Production Company, L.P. respectfully requests the following changes to the approved APD: Casing program change: Surface, Intermediate, & Production casing changes. Cement volume changes to accommodate casing change. Break test and offline cementing variance in regards to intermediate and production casing. Please see attached Drill plan, spec sheets, break test, and offline cementing.

NOI Attachments

Procedure Description

- WAR_CLUB_3_4_FED_COM_621H_12_22_2025_20251222103201.pdf
- Production_Break_Testing_Variance___WFMP___Shallower___BLM_v4_20251208150443.pdf
- MB_Wellhd_5M_13.375_8.625_5.5_20251208150442.pdf
- 5.5_20lb_P110_ICY_Wedge_461_20251208150442.pdf
- 13.375_54.5lb_J55_20251208150442.pdf
- Offline_Production_Cement___WFMP___Shallower___BLM_v5_20251208150442.pdf
- Annular_Variance___Preventer_Summary_20251208150442.pdf
- 8.625_32_lb_J55_BTC_TXP___SC_20251208150442.pdf

| | | |
|---------------------------------|--|-----------------------------------|
| Well Name: WAR CLUB 3-4 FED COM | Well Location: T22S / R27E / SEC 3 / LOT 1 / 32.426635 / -104.170302 | County or Parish/State: EDDY / NM |
| Well Number: 621H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM0473303A | Unit or CA Name: | Unit or CA Number: |
| US Well Number: | Operator: DEVON ENERGY PRODUCTION COMPANY LP | |

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: SHANDEE THOMAS | Signed on: DEC 22, 2025 10:31 AM |
| Name: DEVON ENERGY PRODUCTION COMPANY LP | |
| Title: Regulatory Professional | |
| Street Address: 333 W SHERDIAN AVE | |
| City: OKLAHOMA CITY | State: OK |
| Phone: (405) 552-7853 | |
| Email address: SHANDEE.THOMAS@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: In-Reviews | Disposition Date: 12/22/2025 |
| Signature: Long Vo | |

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| | |
|-------------------------|---|
| OPERATOR'S NAME: | Devon Energy Production Company LP ▼ |
| LOCATION: | Section 2, T.22 S., R.27 E., NMPM |
| COUNTY: | Eddy County, New Mexico ▼ |

| | |
|-----------------------------|----------------------------------|
| WELL NAME & NO.: | War Club 2-3 Fed Com 621H |
| ATS/API ID: | ATS-24-3037 |
| APD ID: | 10400101197 |
| Sundry ID: | 2885854 |

COA

| | | | |
|--------------------------------------|--|---|---|
| H2S | Yes ▼ | | |
| Potash | None ▼ | None ▼ | |
| Cave/Karst Potential | Medium ▼ | | |
| 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 <input type="checkbox"/> 5 String | Capitan Reef None ▼ | <input type="checkbox"/> WIPP |
| Other | Pilot Hole None ▼ | <input type="checkbox"/> Open Annulus | |
| Cementing | Contingency Squeeze None ▼ | Echo-Meter None ▼ | Primary Cement Squeeze None ▼ |
| Special Requirements | <input type="checkbox"/> Water Disposal/Injection | <input checked="" type="checkbox"/> COM | <input type="checkbox"/> Unit |
| Special Requirements | <input type="checkbox"/> Batch Sundry | Waste Prevention None ▼ | |
| Special Requirements Variance | <input checked="" type="checkbox"/> BOPE Break Testing <input checked="" type="checkbox"/> Offline BOPE Testing | <input checked="" type="checkbox"/> Offline Cementing | <input type="checkbox"/> Casing Clearance |

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H₂S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **375 feet** (a minimum of 70 feet into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be **17 1/2** 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.
2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
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.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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.
Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
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 **3000 (3M)** 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 **5000 (5M)** psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 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 **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 43 CFR 3172.6(b)(9) 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.

(Note: For a minimum 5M MASP or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M psi MASP or less. **(Annular preventer must tested to 100% working pressure and BOPE shall be tested to full Rated Pressure)**
- 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.
- 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 **43 CFR part 3170 Subpart 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.
- The BOPE testing shall be conducted while the rig is stationary.

Intermediate Break Testing Section:

- Variance only pertains to the intermediate hole-sections shallower than the deepest drilled intermediate on the well pad above 12,000 feet.

- 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).

Production Break Testing Section: permitted

- Variance only pertains to the production hole-section shallower than the deepest drilled production on the well pad above 12,000 feet.
- A full BOPE test is required prior to drilling the first deep production hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between production lateral is allowable).

Offline BOPE Testing

Operator has been **(Approved)** to test the BOPE offline.

The BOPE offline testing shall be stationary during pressure testing.

Online BOPE testing should commence within 72 hours of offline BOPE testing completion. Notify the BLM if interval exceeds 72 hours.

Notify the BLM 4hrs prior to offline BOPE testing at **Eddy County: 575-361-2822**.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Intermediate(s) interval and Production intervals**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at **Eddy County: 575-361-2822**.

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

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.

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 of both lead and tail cement, 2) until cement has been in place at least 8 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. Acceptable Method of Cement Verifications:
 - a. Observing cement circulated to surface.
 - b. Cement bond log (CBL).
 - c. Temperature log within 8-10 hours after completing the cement job.
 - d. Echometer (if a second-stage bradenhead squeeze is being used).
5. 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.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. 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.
8. 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.
9. 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 43 CFR 3172.6(b)(9) 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 8 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.

Long Vo (LVO) 1/6/2026

Form 3160-5
(October 2024)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0220
Expires: October 31, 2027

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. | |
| 6. If Indian, Allottee or Tribe Name | |
| 7. If Unit of CA/Agreement, Name and/or No. | |
| 8. Well Name and No. | |
| 9. API Well No. | |
| 10. Field and Pool or Exploratory Area | |
| 11. Country or Parish, State | |

SUBMIT IN TRIPLICATE - Other instructions on page 2

| | | |
|--|-----------------------------------|--------------------------------|
| 1. Type of Well | | |
| <input type="checkbox"/> Oil Well | <input type="checkbox"/> Gas Well | <input type="checkbox"/> Other |
| 2. Name of Operator | | |
| 3a. Address | 3b. Phone No. (include area code) | |
| 4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) | | |

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 recompleate 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 recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has 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

Location of Well

0. SHL: LOT 1 / 937 FNL / 400 FEL / TWSP: 22S / RANGE: 27E / SECTION: 3 / LAT: 32.426635 / LONG: -104.170302 (TVD: 0 feet, MD: 0 feet)

PPP: LOT 3 / 887 FNL / 2478 FWL / TWSP: 22S / RANGE: 27E / SECTION: 4 / LAT: 32.4267274 / LONG: -104.1953613 (TVD: 8869 feet, MD: 16900 feet)

PPP: LOT 1 / 880 FNL / 100 FEL / TWSP: 22S / RANGE: 27E / SECTION: 3 / LAT: 32.42676 / LONG: -104.169327 (TVD: 8906 feet, MD: 9021 feet)

PPP: LOT 3 / 872 FNL / 2640 FEL / TWSP: 22S / RANGE: 27E / SECTION: 3 / LAT: 32.426775 / LONG: -104.177561 (TVD: 9005 feet, MD: 9373 feet)

BHL: LOT 4 / 880 FNL / 20 FWL / TWSP: 22S / RANGE: 27E / SECTION: 4 / LAT: 32.426705 / LONG: -104.203332 (TVD: 8825 feet, MD: 19360 feet)

CONFIDENTIAL

WAR CLUB 3-4 FED COM 621H

1. Geologic Formations

| | | | |
|---------------|-------|------------------------------|-----|
| TVD of target | 8826 | Pilot hole depth | N/A |
| MD at TD: | 19351 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|----------------------|---------------------------|--|----------|
| Rustler | 266 | | |
| Salt | 417 | | |
| Base of Salt | 736 | | |
| Delaware | 2216 | | |
| Cherry Canyon | 2921 | | |
| Brushy Canyon | 3976 | | |
| 1st Bone Spring Lime | 5360 | | |
| Bone Spring 1st | 6584 | | |
| Bone Spring 2nd | 7377 | | |
| 3rd Bone Spring Lime | 7589 | | |
| Bone Spring 3rd | 8570 | | |
| Wolfcamp | 8906 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

WAR CLUB 3-4 FED COM 621H

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) |
| 17 1/2 | 13 3/8 | 54 1/2 | J-55 | BTC | 0 | 340 | 0 | 340 |
| 9 7/8 | 8 5/8 | 32 | J-55 | TXP SC 80 | 0 | 2250 | 0 | 2250 |
| 7 7/8 | 5 1/2 | 20 | P110ICY | Wedge 461 | 0 | 19351 | 0 | 8826 |

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

3. Cementing Program

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

| Casing | # Skis | TOC | Wt. ppg | Yld (ft3/sack) | Slurry Description |
|------------|--------|------|---------|----------------|----------------------------------|
| Surface | 283 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 166 | Surf | 13.0 | 2.3 | Lead: Class C Cement + additives |
| | 67 | 1750 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 391 | 1750 | 9 | 3.27 | Lead: Class H / C + additives |
| | 1441 | 8462 | 13.2 | 1.44 | Tail: Class H / C + additives |

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

WAR CLUB 3-4 FED COM 621H

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 | | | | | |

WAR CLUB 3-4 FED COM 621H

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 |
| | Mud log | Intermediate shoe to TD |
| | PEX | |

7. Drilling Conditions

| Condition | Specify what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 4819 |
| 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. |

WAR CLUB 3-4 FED COM 621H

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

| | |
|-------------------|------------------|
| <u>X</u> | Directional Plan |
| <u> </u> | Other, describe |

BOPE Break Test Variance

10/2025
REV4



NYSE: DVN
devonenergy.com



BOPE Break Test Variance (Less than 12,000' TVD)

Devon is respectfully pursuing a variance to the minimum standards to allow a testing schedule of the blow out prevention equipment (BOPE) along with Stump Testing, Batch Drilling & Offline Cementing operations to include the following:

- Conduct a full 10k BOPE and 5k Annular test upon initial installation on the pad.
- If the rig has the ability to do a Stump Test, this is permitted for initial installation.
- Perform full BOPE tests every 21 days thereafter.
- Intermediate & Production Break-testing is permitted to the base of the Wolfcamp or shallower (limited to 12,000' TVD).
- Once the well is secured and BLM has been notified, disconnect the BOP and walk the rig to the next well on the pad.
 - If any unusual events occur during drilling, tripping, or casing operations, break-testing will not be performed
 - If offset fracturing is observed within 1.0 mile in the same producing horizon, break-testing in the production section will not be performed.
- Each rig requesting a break-test variance must be capable of picking up the BOP without damaging components, using winches and following API Standard 53 (Fifth Edition, December 2018, Annex C, Table C.4), which recognizes break-testing as an acceptable practice.
- Function tests will be performed on the following BOP elements:
 - Annular: During each full BOPE test and at least weekly.
 - Pipe Rams: On every trip and on trip-ins where a FIT is required.
 - Blind Rams: On every trip.
- Break-testing the BOP allows for offline cementing and/or remediation (if needed) of any surface, intermediate, or production sections, in accordance with the attached offline cementing support documentation.
- After securing the well section, disconnect the BOP from the wellhead and walk it with the rig to another well on the pad.
- Install a TA cap per Cactus Wellhead procedures and monitor casing pressure via the valve on the TA cap.

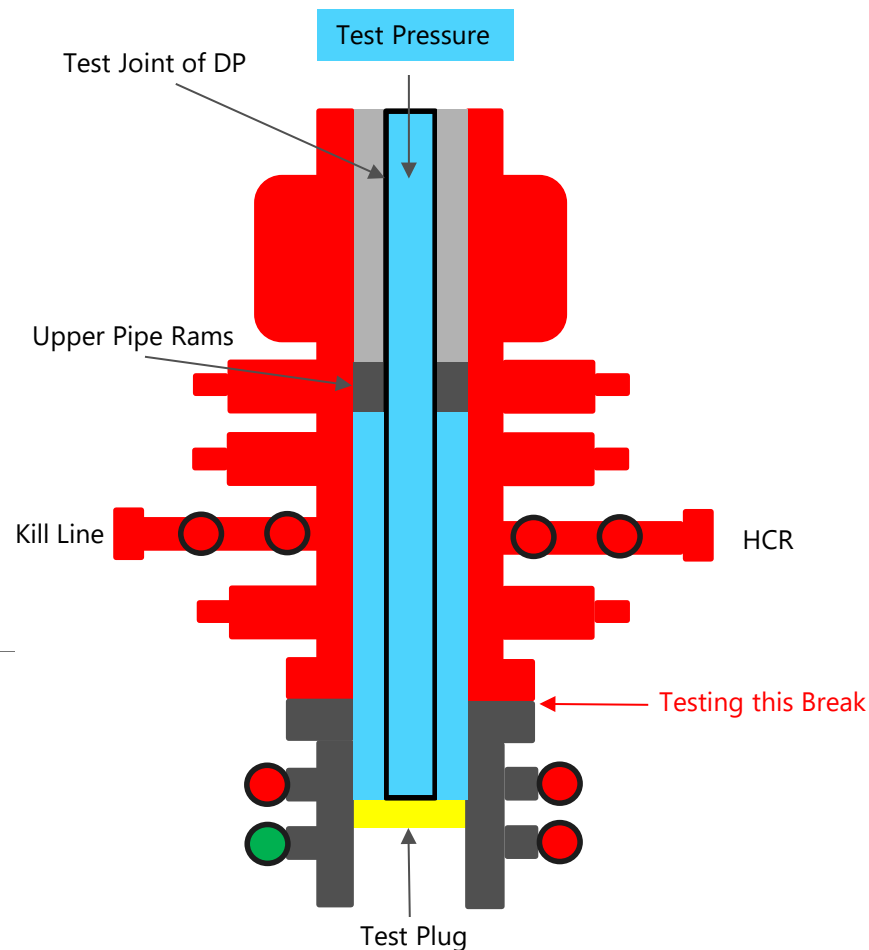
BOPE Break Test Variance (Less than 12,000' TVD)

Test Procedure:

1. Makeup test plug on DP and set in Wellhead.
2. Close Upper Pipe Rams around DP.
3. Close Kill Line & HCR.
4. Open wellhead valve to ensure if pressure leaks past plug, it won't pressure up wellbore.
5. Tie into top of DP at Rig Floor. Fill with water and test Break + Pipe Rams to 250psi low and 10,000psi high.
6. Bleed off pressure.
7. Open Upper Pipe Rams, close wellhead valve and lay down test plug and DP.

Component Table:

| Components | Offline | Offline, BOPE | Break | Online |
|---|---------|---------------|-------|--------|
| Upper Rams | | X | X | X |
| Blind Rams | | X | | X |
| Lower Rams | | | | X |
| Outside Kill Valve | | X | X | X |
| Inside Kill Valve | | X | X | X |
| Kill Line Check Valve | | X | X | X |
| Inside Choke Valve | | X | X | X |
| HCR | | X | X | X |
| Kill Line | X | | | X |
| Annular | | X | X | X |
| Choke Manifold Valves and Hose | X | | | X |
| Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line) | X | | | X |
| Standpipe Valve | X | | | X |
| IBOP (Upper and Lower) | X | | | X |



Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular

Remaining well control equipment components will either be tested offline or online, per BLM approval

Remaining BOPE will be tested online within 72 hours from completing the offline BOPE component testing

Notify the BLM if the online BOPE testing exceeds 72 hours

All Full Tests not completed "Offline" or "Offline, BOPE" are required to be completed Online

Thank you.



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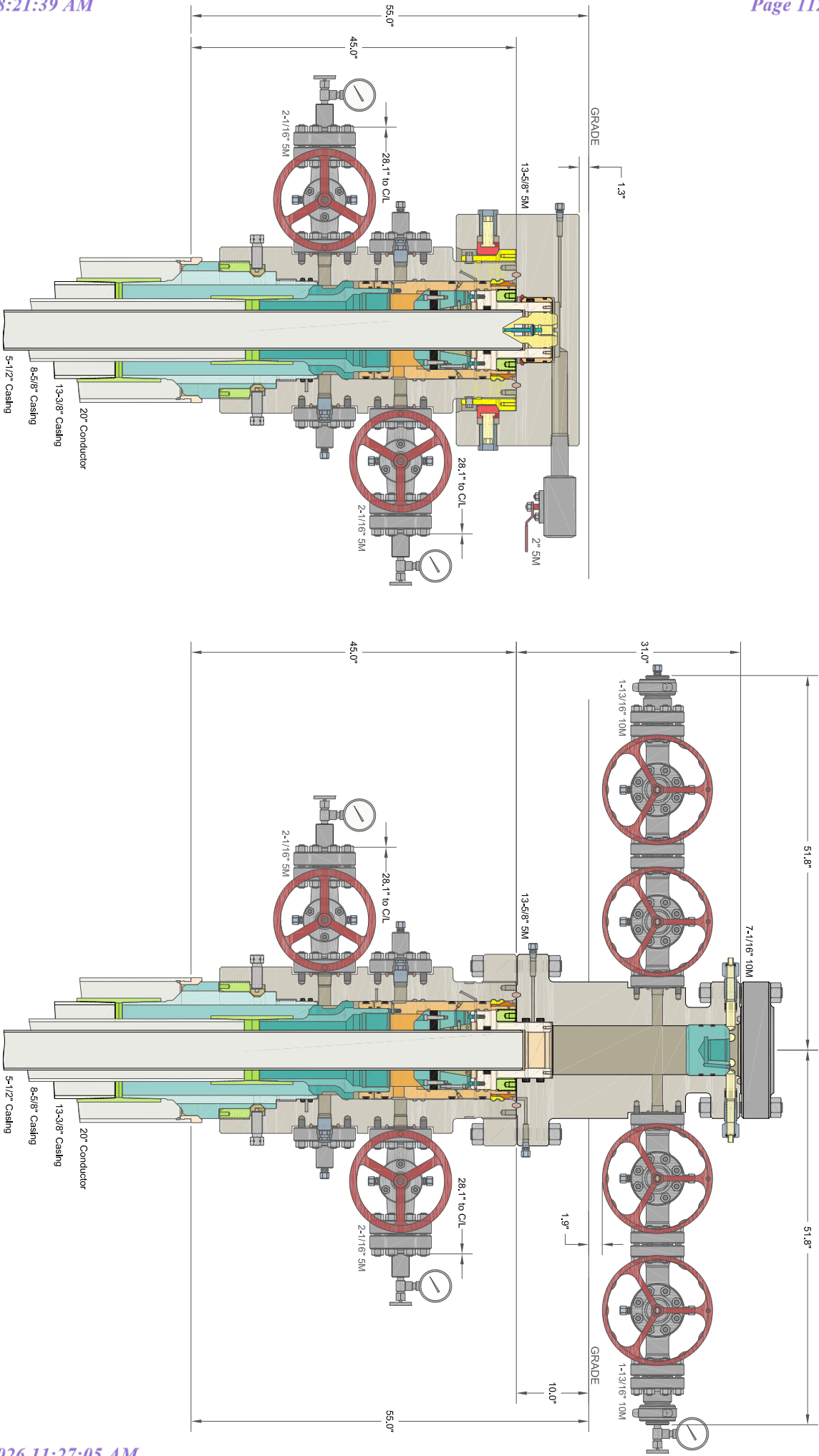
CACTUS WELLHEAD LLC

20" x 13-3/8" x 8-5/8" x 5-1/2" MBU-3T-CFL-R-DBLO Wellhead Sys.
With Quick Connect Top TA Cap, 5-1/2" Emergency Slip Hanger
And 13-5/8" 5M x 7-1/16" 10M CTH-DBLHPS Tubing Head

DEVON ENERGY CORPORATION
DELAWARE BASIN

| | | |
|-------------|----------|---------|
| DRAWN | DLE | 25FEB19 |
| APPRV | | |
| DRAWING NO. | SDT-1929 | |

ALL DIMENSIONS APPROXIMATE





TenarisHydril Wedge 461®



| Coupling | Pipe Body |
|----------------------|----------------------|
| Grade: P110-ICY | Grade: P110-ICY |
| Body: White | 1st Band: White |
| 1st Band: Pale Green | 2nd Band: Pale Green |
| 2nd Band: - | 3rd Band: Pale Green |
| 3rd Band: - | 4th Band: - |
| | 5th Band: - |
| | 6th Band: - |

| | | | | | |
|----------------------|-----------|-----------------|--------------|-------|----------|
| Outside Diameter | 5.500 in. | Wall Thickness | 0.361 in. | Grade | P110-ICY |
| Min. Wall Thickness | 87.50 % | Pipe Body Drift | API Standard | Type | Casing |
| Connection OD Option | REGULAR | | | | |

Pipe Body Data

| Geometry | | Performance | |
|----------------|-------------|------------------------------|--------------|
| Nominal OD | 5.500 in. | Wall Thickness | 0.361 in. |
| Nominal Weight | 20.00 lb/ft | Plain End Weight | 19.83 lb/ft |
| Drift | 4.653 in. | OD Tolerance | API |
| Nominal ID | 4.778 in. | | |
| | | Body Yield Strength | 729 x1000 lb |
| | | Min. Internal Yield Pressure | 14,360 psi |
| | | SMYS | 125,000 psi |
| | | Collapse Pressure | 12,300 psi |

Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|----------------------|-----------|----------------------------|--------------|-------------------------|--------------|
| Connection OD | 6.300 in. | Tension Efficiency | 100 % | Minimum | 17,000 ft-lb |
| Coupling Length | 7.714 in. | Joint Yield Strength | 729 x1000 lb | Optimum | 18,000 ft-lb |
| Connection ID | 4.778 in. | Internal Pressure Capacity | 14,360 psi | Maximum | 21,600 ft-lb |
| Make-up Loss | 3.775 in. | Compression Efficiency | 100 % | | |
| Threads per inch | 3.40 | Compression Strength | 729 x1000 lb | Operation Limit Torques | |
| Connection OD Option | Regular | Max. Allowable Bending | 104 °/100 ft | Operating Torque | 43,000 ft-lb |
| | | External Pressure Capacity | 12,300 psi | Yield Torque | 51,000 ft-lb |
| | | Coupling Face Load | 329,000 lb | | |
| | | | | Buck-On | |
| | | | | Minimum | 21,600 ft-lb |
| | | | | Maximum | 23,100 ft-lb |

Notes

This connection is fully interchangeable with:
Wedge 441® - 5.5 in. - 0.304 (17.00) / 0.361 (20.00) in. (lb/ft)
Wedge 461® - 5.5 in. - 0.304 (17.00) / 0.415 (23.00) / 0.476 (26.00) in. (lb/ft)
Connections with Dopeless® Technology are fully compatible with the same connection in its doped version
In October 2019, TenarisHydril Wedge XP® 2.0 was renamed TenarisHydril Wedge 461™. Product dimensions and properties remain identical and both connections are fully interchangeable

For the latest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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13-3/8" 54.50# .380 J-55

Dimensions (Nominal)

| | | |
|------------------|--------|--------|
| Outside Diameter | 13.375 | in. |
| Wall | 0.380 | in. |
| Inside Diameter | 12.615 | in. |
| Drift | 12.459 | in. |
| | | |
| Weight, T&C | 54.500 | lbs/ft |
| Weight, PE | 52.790 | lbs/ft |

Performance Ratings, Minimum

| | | |
|---------------------------|------|----------|
| Collapse, PE | 1130 | psi |
| | | |
| Internal Yields Pressure | | |
| PE | 2730 | psi |
| STC | 2730 | PSI |
| BTC | 2730 | psi |
| | | |
| Yield Strength, Pipe Body | 853 | 1000 lbs |
| | | |
| Joint Strength, STC | 514 | 1000 lbs |
| Joint Strength, BTC | 909 | 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.

Devon Energy Offline Production Cementing

10/2025
REV5



NYSE: DVN
devonenergy.com



Offline Production Cementing Variance

Devon is respectfully pursuing a variance to the minimum standards to allow for the cementing of the Production Casing offline in the Wolfcamp and shallower producing horizons.

To ensure personnel safety and well integrity, strict eligibility requirements will be enforced, and a detailed procedure will be followed.

The following slides outline the eligibility requirements, offline procedure, schematics and pressure ratings.

Offline Production Eligibility

Offline Punch List:

The well must meet all criteria to qualify for offline cementing.

- A) Well is in the Wolfcamp or shallower bench.
- B) No unusual events were observed during drilling, tripping or casing operations.
- C) Casing successfully landed out on casing hanger (fluted or solid).
- D) Devon Company Men with Well Control certifications will monitor returns (bbl in / bbl out) to ensure well control is maintained.
- E) Rig Manager will oversee the walking of the rig to the next well.
- F) All barriers **MUST** test and at no point will there be less than 2 barriers in place.
- G) No offset frac operations occurring within 1.0 mile in the same bench.
- H) Once all criteria are met and BLM is notified, Devon may proceed with ND BOP and continue offline operations.

Note: Devon will NOT drill out the next deep intermediate until cementing on the offline well is complete.

Offline Procedure

■ **Devon's Proposed Production Offline Procedure:**

- Run casing and perform negative pressure test during casing run to verify integrity of float equipment's 10M backpressure valves.
- Review Devon's "Punch List" to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with KWM and perform flow check ensuring well is static.
 - If well is not static, build pressure or acting abnormal in any way - abort offline operations.
- Install 10M packoff and test same. After successful test, engage locking ring and L/D running tool.
- Install 10M backpressure valve in WH from rig floor.
 - Note: 3 Casing barriers and 2 Annular barriers currently in place.
- Once well is secured and BLM notified, ND BOP and walk rig to next well on pad.
 - If ANY barrier fails to test – the well will be cemented online.
 - Devon Company Man and Devon Cementer will oversee Cementing Operations
 - Rig Manager will walk the rig to the next well.
 - Drill out operations on next deep intermediate will not begin until cementing operations have concluded on the offline well.
- Install 10M Gate Valve and Cactus WH adapter.
- Test connection between WH adapter seals, hanger neck, and ring gasket to 10,000psi.
- Open Frac Valve and remove BPV.
- RU cement head, cement iron, return lines and test same.
- Once all equipment is rigged up, barriers tested and ready to cement, notify BLM of intent to Cement Offline.

Offline Procedure

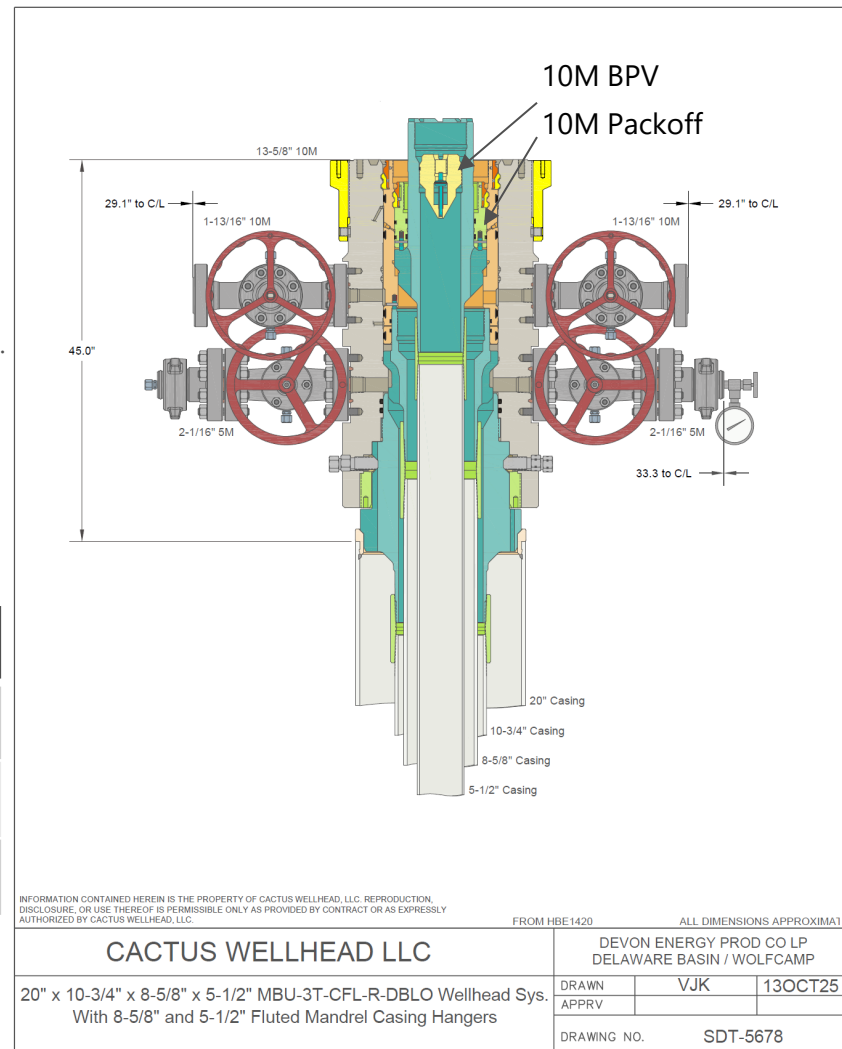
■ Devon's Proposed Production Offline Procedure (continued):

- Perform offline cement job.
- If an influx is observed during the cement job:
 - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold and hold appropriate backpressure to circulate out influx.
 - If annular surface pressure approaches 25% of the tested pressure of the surface return equipment, or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the 10M casing valves.*
- Bump plug and ensure floats are holding.
 - If plug does not bump or floats do not hold, either the Gate Valve or Cement Head may be closed while we WOC.
- RD cement head and install BPV.
- Remove Gate Valve and WH adapter.
- Install TA Cap with pressure gauge and test same.
- ***Note*** - If the well is within the KPLA, and an uncemented annulus between the Production and Intermediate casing has been utilized; then cement shall be squeezed down both casing valves within 180 days of the well's completion and displaced with a treated fresh water to a TOC below the potash interval and marker bed number 126, with a minimum of 500' tie-back inside the Intermediate Casing as per R111Q.

*Note – This hasn't been observed

Offline Procedure – Detailed

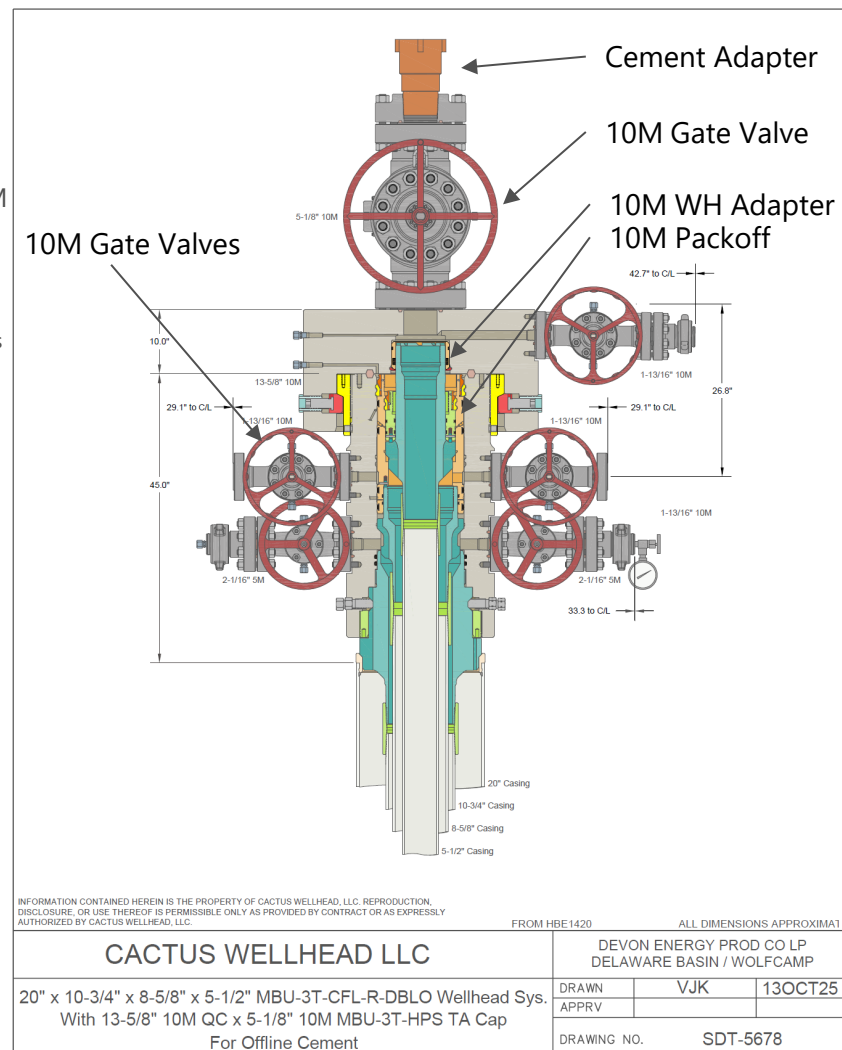
- Run casing and perform negative pressure test during casing run to verify integrity of float equipment's 10,000psi backpressure valves.
 - Review Devon's "Punch List" to determine if well is a viable candidate.
- Continue running casing and land casing out on Cactus mandrel hanger.
- Fill casing with KWM and perform flow check ensuring well is static.
- Install packoff rated to 10,000psi and test same. After successful test, engage locking ring and L/D running tool.
- Install backpressure valve in WH from rig floor.
 - Note: 3 Casing barriers and 2 Annular barriers currently in place.
- Once well is secured and BLM notified, ND BOP and walk rig to next well on pad.
 - If ANY barrier fails to test – the well will be cemented online.
 - Devon PIC and Devon Cementer will oversee Cementing Operations
 - Rig Manager will walk the rig to the next well.
 - Drill out operations on next deep intermediate will not begin until cementing operations have concluded on the offline well.



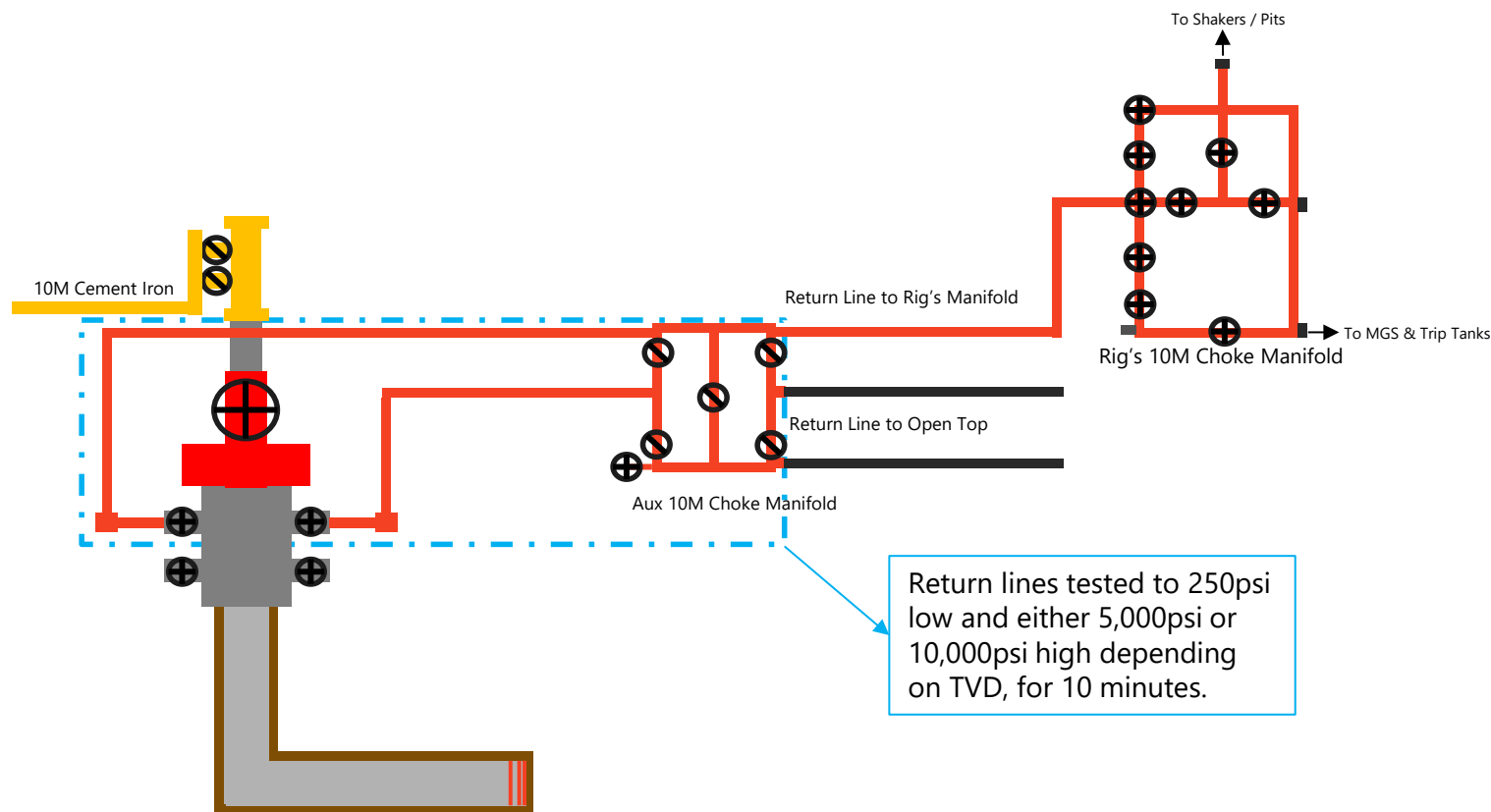
| Casing Barrier | Rating | Backside Barrier | Rating |
|-------------------|-----------|------------------|-----------|
| BPV | 10,000psi | KWM | > BHP |
| KWM | > BHP | Packoff | 10,000psi |
| Float Valves (x3) | 10,000psi | | |

Offline Procedure – Detailed

- Install 10M Frac Valve and Cactus WH adapter.
- Test connection between WH adapter seals, hanger neck, and ring gasket to 10,000psi.
- Open Frac Valve and remove BPV.
- RU cement head, cement iron, return lines and test same.
- Once all equipment is rigged up, barriers tested and ready to cement, notify BLM of intent to Cement Offline.
- Perform offline cement job.
- If an influx is observed during the cement job:
 - The Day and Night Company Men will redirect returns from Cementing Manifold to the Rig's choke manifold and hold appropriate backpressure to circulate out influx.
 - If annular surface pressure approaches 25% of the tested pressure of the surface return equipment, or if circulating the influx out with the cementing pumps is not feasible, the well can be secured by closing the 10M casing valves.
- Bump plug and ensure floats are holding.
 - If plug does not bump or floats do not hold, either the Gate Valve or Cement Head may be closed while we WOC.
- RD cement head and install BPV.
- Remove Gate Valve and WH adapter.
- Install TA Cap with pressure gauge and test same.



Offline Flow Path



⊕ 10M Valve / Choke

⊖ 10M Low Torq

Note:

- All lines are 10M rated and tested to **5,000psi for wells less than 12,000' TVD**
- All lines are 10M rated and tested to **10,000psi for wells greater than 12,000' TVD**
- Minimum of 2 barriers in place at ALL times
- Never had to circulate out an influx during an Offline job

Thank you.



Devon Energy Annular Preventer Summary

1. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

6-3/4" Production hole section, 10M requirement

| Component | OD | Preventer | RWP |
|-----------------------------|-----------|--------------------------------------|-----|
| Drillpipe | 4.5" | Fixed lower 4.5" Upper 4.5-7" VBR | 10M |
| HWDP | 4.5" | Fixed lower 4.5" Upper 4.5-7" VBR | 10M |
| Drill collars and MWD tools | 4.75" | Upper 4.5-7" VBR | 10M |
| Mud Motor | 4.75" | Upper 4.5-7" VBR | 10M |
| Production casing | 5.5" | Upper 4.5-7" VBR | 10M |
| ALL | 0-13-5/8" | Annular | 5M |
| Open-hole | - | Blind Rams | 10M |

VBR = Variable Bore Ram. Compatible range listed in chart.

2. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission their operating pressure limit. The operator may chose an operating pressure less than or equal to RWP, but in no case will it exceed the RWP of the annular preventer.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

Devon Energy Annular Preventer Summary

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full opening safety valve and close
3. Space out drill string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

General Procedure While Running Casing

1. Sound alarm (alert crew)
2. Stab crossover and full opening safety valve and close
3. Space out string
4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP and SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

Devon Energy Annular Preventer Summary

General Procedures While Pulling BHA thru Stack

1. PRIOR to pulling last joint of drillpipe thru the stack.
 - a. Perform flowcheck, if flowing:
 - b. Sound alarm (alert crew)
 - c. Stab full opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper pipe ram.
 - e. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full opening safety valve and close
 - c. Space out drill string with upset just beneath the compatible pipe ram.
 - d. Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - h. Regroup and identify forward plan
3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
 - a. Sound alarm (alert crew)
 - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
 - c. If impossible to pick up high enough to pull the string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper pipe ram.
 - f. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP and SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



TXP[®] BTC - SC82 - AD



| Coupling | Pipe Body |
|---------------------|------------------------|
| Grade: J55 (Casing) | Grade: J55 (Casing) |
| Body: Bright Green | 1st Band: Bright Green |
| 1st Band: White | 2nd Band: - |
| 2nd Band: - | 3rd Band: - |
| 3rd Band: - | 4th Band: - |
| Special | 5th Band: - |
| Clearance 82: Black | 6th Band: - |

| | | | | | |
|----------------------|--------------|-----------------|-------------------|-------|--------------|
| Customer | Devon Energy | Wall Thickness | 0.352 in. | Grade | J55 (Casing) |
| Outside Diameter | 8.625 in. | Pipe Body Drift | Alternative Drift | Type | Casing |
| Min. Wall Thickness | 87.50 % | | | | |
| Connection OD Option | SC82 | | | | |

Pipe Body Data

| Geometry | | | | Performance | |
|----------------|-------------|------------------|-------------|------------------------------|--------------|
| Nominal OD | 8.625 in. | Wall Thickness | 0.352 in. | Body Yield Strength | 503 x1000 lb |
| Nominal Weight | 32.00 lb/ft | Plain End Weight | 31.13 lb/ft | Min. Internal Yield Pressure | 3930 psi |
| Drift | 7.875 in. | OD Tolerance | API | SMYS | 55,000 psi |
| Nominal ID | 7.921 in. | | | Collapse Pressure | 2530 psi |

Connection Data

| Geometry | | Performance | | Make-Up Torques | |
|----------------------|------------|----------------------------|--------------|-------------------------|--------------|
| Connection OD | 9.027 in. | Tension Efficiency | 82 % | Minimum | 16,440 ft-lb |
| Coupling Length | 10.825 in. | Joint Yield Strength | 412 x1000 lb | Optimum | 18,270 ft-lb |
| Connection ID | 7.921 in. | Internal Pressure Capacity | 3340 psi | Maximum | 20,100 ft-lb |
| Make-up Loss | 4.891 in. | Compression Efficiency | 100 % | Operation Limit Torques | |
| Threads per inch | 5 | Compression Strength | 503 x1000 lb | Operating Torque | 20,100 ft-lb |
| Connection OD Option | SC82 | Max. Allowable Bending | 23 °/100 ft | Yield Torque | 23,700 ft-lb |
| | | External Pressure Capacity | 2530 psi | | |
| | | Coupling Face Load | 120,000 lb | | |

Notes

This connection is fully interchangeable with:
TXP[®] BTC - 8.625 in. - 0.4 (36.00) / 0.45 (40.00) / 0.5 (44.00) / 0.557 (49.00) in. (lb/ft)
Connections with Dopeless[®] Technology are fully compatible with the same connection in its doped version
Standard coupling design comes with optimized 20° bevel.
Datasheet is also valid for Special Bevel option when applicable - except for Coupling Face Load, which will be reduced. Please contact a local Tenaris technical sales representative.
Preliminary Data Sheet - Product under development. Once product assessment is completed a final data sheet will be issued.
Connection performance values are related to structural capabilities. For sealability-related performance information, request the Connection Service Envelope from your local Tenaris Representative.

For the latest performance data, always visit our website: www.tenaris.com
For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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PI-0/CIII-0

Sundry ID 2885854.xlsm

War Club 3-4 Fed Com 621H

| 13 3/8 | | surface csg in a | | 17 1/2 | | inch hole. | | Design Factors | | | | Surface | | |
|---|---------|------------------|----------|----------|----------|--------------|----------|----------------|-----------|--------|-----|---------|--------|--------|
| Segment | #/ft | Grade | | Coupling | | Body | Collapse | Burst | Length | B@s | a-B | a-C | Weight | |
| "A" | 54.50 | | | j 55 | | btc | 41.75 | 6.45 | 2.22 | 375 | 16 | 3.73 | 12.17 | 20,438 |
| "B" | | | | | | btc | | | | 0 | | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500 | | | | | | | | | | | | | | |
| Comparison of Proposed to Minimum Required Cement Volumes | | | | Tail Cmt | does not | circ to sfc. | | Totals: | 375 | 20,438 | | | | |
| 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 | | | | | |
| 17 1/2 | 0.6946 | 283 | 408 | 260 | 56 | 9.00 | 732 | 2M | 1.56 | | | | | |
| Site plot (pipe racks 3 or 4) as per O.D. L-III-D-4 (not found) | | | | | | | | | | | | | | |

| 8 5/8 | | casing inside the | | 13 3/8 | | Design Factors | | | | Int 1 | | |
|---|---------|-------------------|----------|-----------|----------|----------------|-------|----------------------|--------|---------|------|-----------|
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 32.00 | | p 110 | txp sc 80 | 5.72 | 2.06 | 0.69 | 2,250 | 3 | 1.16 | 3.45 | 72,000 |
| "B" | | | | | | | | 0 | | | | 0 |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 1,356 | | | | | | | | Totals: | 2,250 | | | 72,000 |
| The cement volume(s) are intended to achieve a top of 0 | | | | | | | | ft from surface or a | | 375 | | 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 | 233 | 478 | 410 | 17 | 10.50 | 2872 | 3M | | | | 0.42 |
| D V Tool(s): | | | | | | | | sum of sx | Σ CuFt | | | Σ%excess |
| t by stage % : | | | | | | | | #VALUE! | | #VALUE! | | |
| Class 'C' tail cmt yld > 1.35 | | | | | | | | | | | | |
| Burst Frac Gradient(s) for Segment(s): A, B, C, D = 1.48, b, c, d All > 0.70, OK. | | | | | | | | | | | | |

| 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" | 20.00 | | p 110 | wedge 461 | 3.63 | 2.31 | 2.63 | 19,351 | 3 | 4.40 | 3.87 | 387,020 | |
| "B" | | | | | | | | 0 | | | | 0 | |
| "C" | | | | | | | | 0 | | | | 0 | |
| "D" | | | | | | | | 0 | | | | 0 | |
| w/8.4#/g mud, 30min Sfc Csg Test psig: 1,942 | | | | | | | | Totals: | 19,351 | | | | 387,020 |
| The cement volume(s) are intended to achieve a top of | | | | | | | | 2050 | 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 | 1832 | 3354 | 2998 | 12 | 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. | | | | | | | | | | | |

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

ACKNOWLEDGMENTS

Action 540876

ACKNOWLEDGMENTS

| | |
|---|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 540876 |
| | Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

ACKNOWLEDGMENTS

| | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well. |
|-------------------------------------|--|

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

CONDITIONS

Action 540876

CONDITIONS

| | |
|---|---|
| Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | OGRID: 6137 |
| | Action Number: 540876 |
| | Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

CONDITIONS

| Created By | Condition | Condition Date |
|-------------|---|----------------|
| tshandee | Cement is required to circulate on both surface and intermediate1 strings of casing. | 1/7/2026 |
| tshandee | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing. | 1/7/2026 |
| ward.rikala | Notify the OCD 24 hours prior to casing & cement. | 1/29/2026 |
| ward.rikala | File As Drilled C-102 and a directional Survey with C-104 completion packet. | 1/29/2026 |
| ward.rikala | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string. | 1/29/2026 |
| ward.rikala | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system. | 1/29/2026 |