| Received by OCD. 5/23/2024 9:57:03 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT | | Sundry Print Reports 05/23/2024 |
|---|---|------------------------------------|
| Well Name: MULE 11-14 FED COM | Well Location: T25S / R31E / SEC 11 / NWNW / 32.150986 / -103.755654 | County or Parish/State: EDDY / NM |
| Well Number: 531H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM0503 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: | Operator: DEVON ENERGY PRODUCTION COMPANY LP | |

Notice of Intent

Sundry ID: 2791190

Type of Submission: Notice of Intent

Date Sundry Submitted: 05/21/2024

Date proposed operation will begin: 05/20/2024

Type of Action: APD Change Time Sundry Submitted: 08:19

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to change the well name, BHL, depth, and slim hold design on the subject well. Devon also request a variance for offline cementing and break test. Please see attached revised C102, Drill plan, directional plan, variance requests. API: 30-015-55056 Permitted Well name: MULE 11-14 FED COM 531H Proposed Well name: MULE 11-23 FED COM 301H Permitted BHL: SWSW, 20 FSL, 330 FWL, 14-25S-31E Proposed BHL: NWNW, 1299 FNL, 400 FWL, 23-25S-31E Permitted TVD/MD: 9100/19317 Proposed TVD/MD: 10475/22113

NOI Attachments

Procedure Description

5.5_20lb_P110EC_VAM_SPRINT_TC_SC_20240521081745.pdf

7_625_29_7lb_P110HSCY_MOFXL_20240521081744.pdf

WA018222941_MULE_11_23_FED_COM_301H_WL_R1_SIGNED_20240521081745.pdf

9.625_40lb_J55_SeAH_20240521081745.pdf

break_test_variance_BOP_1_15_24_20240520064335.pdf

Offline_Cementing___Variance_Request_20240520064334.pdf

MULE_11_14_FED_COM_301H_Slim_Hole_20240520063335.pdf

MULE_11_14_FED_COM_301H_Directional_Plan_04_23_24_20240520063335.pdf

| eived by OCD: 5/23/2024 9:57:03 AM Well Name: MULE 11-14 FED COM | Well Location: T25S / R31E / SEC 11 / NWNW / 32.150986 / -103.755654 | County or Parish/State: EDDY? |
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| Well Number: 531H | Type of Well: OIL WELL | Allottee or Tribe Name: |
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| US Well Number: | Operator: DEVON ENERGY PRODUCTION COMPANY LP | |
| Conditions of Approv | al | |
| pecialist Review | | |
| | /_ID_2791190_20240522100815.pdf | |
| Mule 11 23 Fed Com 301H Sundry | | |
| Operator I certify that the foregoing is true and co crime for any person knowingly and will | orrect. Title 18 U.S.C. Section 1001 and Title Ifully to make to any department or agency of ions as to any matter within its jurisdiction. E | of the United States any false, fictitio |
| Operator I certify that the foregoing is true and co crime for any person knowingly and will or fraudulent statements or representat Notices through this system satisfies re | Ifully to make to any department or agency of ions as to any matter within its jurisdiction. En gulations requiring a | of the United States any false, fictitio Electronic submission of Sundry |
| Operator I certify that the foregoing is true and co crime for any person knowingly and will or fraudulent statements or representat Notices through this system satisfies re Operator Electronic Signature: CHEL | Ifully to make to any department or agency of ions as to any matter within its jurisdiction. En igulations requiring a | of the United States any false, fictitio |
| Operator I certify that the foregoing is true and co crime for any person knowingly and will or fraudulent statements or representat Notices through this system satisfies re Operator Electronic Signature: CHEL Name: DEVON ENERGY PRODUCTIO | Ifully to make to any department or agency of ions as to any matter within its jurisdiction. En gulations requiring a LSEY GREEN Sig | of the United States any false, fictitio Electronic submission of Sundry |
| Operator I certify that the foregoing is true and co crime for any person knowingly and will or fraudulent statements or representat Notices through this system satisfies re Operator Electronic Signature: CHEL Name: DEVON ENERGY PRODUCTIO Title: Regulatory Compliance Professio | Ifully to make to any department or agency of ions as to any matter within its jurisdiction. En gulations requiring a LSEY GREEN Sig DN COMPANY LP onal | of the United States any false, fictitio Electronic submission of Sundry |
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| Operator I certify that the foregoing is true and co crime for any person knowingly and will or fraudulent statements or representat Notices through this system satisfies re Operator Electronic Signature: CHEL Name: DEVON ENERGY PRODUCTION Title: Regulatory Compliance Profession Street Address: 333 West Sheridan Address: 333 West Sheridan Address: 333 West Sheridan Address: Street Address: Street Street Address: Street Sheridan Addres | Ifully to make to any department or agency of ions as to any matter within its jurisdiction. En- igulations requiring a LSEY GREEN Sig ON COMPANY LP onal venue ate: OK | of the United States any false, fictitio Electronic submission of Sundry |
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| Operator I certify that the foregoing is true and co crime for any person knowingly and will or fraudulent statements or representate Notices through this system satisfies ref Operator Electronic Signature: CHEL Name: DEVON ENERGY PRODUCTION Title: Regulatory Compliance Profession Street Address: 333 West Sheridan Address: 333 West Sheridan Address: 333 West Sheridan Address: Chelsey.Green@dvn.com///operators//////////////////////////////////// | Ifully to make to any department or agency of ions as to any matter within its jurisdiction. En- igulations requiring a LSEY GREEN Sig ON COMPANY LP onal venue ate: OK | of the United States any false, fictitio Electronic submission of Sundry |
| Operator I certify that the foregoing is true and co crime for any person knowingly and will or fraudulent statements or representate Notices through this system satisfies ref Operator Electronic Signature: CHEL Name: DEVON ENERGY PRODUCTION Title: Regulatory Compliance Profession Street Address: 333 West Sheridan Ac City: Oklahoma City St Phone: (405) 228-8595 Email address: Chelsey.Green@dvn.or Field | Ifully to make to any department or agency of ions as to any matter within its jurisdiction. En- igulations requiring a LSEY GREEN Sig ON COMPANY LP onal venue ate: OK | of the United States any false, fictitio Electronic submission of Sundry |
| Operator I certify that the foregoing is true and co crime for any person knowingly and will or fraudulent statements or representate Notices through this system satisfies ref Operator Electronic Signature: CHER Name: DEVON ENERGY PRODUCTION Title: Regulatory Compliance Profession Street Address: 333 West Sheridan Ac City: Oklahoma City St Phone: (405) 228-8595 Email address: Chelsey.Green@dvn.oc Field Representative Name: | Ifully to make to any department or agency of ions as to any matter within its jurisdiction. En- egulations requiring a LSEY GREEN Sig ON COMPANY LP onal venue ate: OK | of the United States any false, fictitio Electronic submission of Sundry ned on: MAY 20, 2024 06:31 AM |

BLM Point of Contact

Email address:

| BLM POC Name: LONG VO |
|---------------------------|
| BLM POC Phone: 5759885402 |
| Disposition: Approved |
| Signature: Long Vo |

BLM POC Title: Petroleum EngineerBLM POC Email Address: LVO@BLM.GOVDisposition Date: 05/22/2024

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Received by OCD: 5/23/2024 9:57:03 AM

| eceiveu by OCD. 5/25/20. | 24 7.37.03 AIM | | Tuge 5 0j |
|---|--|--|---|
| Form 3160-5 (June 2019) | UNITED STAT DEPARTMENT OF THE BUREAU OF LAND MA | E INTERIOR | FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No. |
| Do not use t | | PORTS ON WELLS s to drill or to re-enter an (APD) for such proposals. | 6. If Indian, Allottee or Tribe Name |
| | IT IN TRIPLICATE - Other ins | structions on page 2 | 7. If Unit of CA/Agreement, Name and/or No. |
| 1. Type of Well | Gas Well Other | | 8. Well Name and No. |
| 2. Name of Operator | | | 9. API Well No. |
| 3a. Address | | 3b. Phone No. <i>(include area code)</i> | 10. Field and Pool or Exploratory Area |
| 4. Location of Well (Footage, Se | c., T.,R.,M., or Survey Description |))) | 11. Country or Parish, State |
| 12 | . CHECK THE APPROPRIATE | BOX(ES) TO INDICATE NATURE C | DF NOTICE, REPORT OR OTHER DATA |
| TYPE OF SUBMISSION | | TYPE | E OF ACTION |
| Notice of Intent | Acidize | Deepen [Hydraulic Fracturing] | Production (Start/Resume) Water Shut-Off Reclamation Well Integrity |
| Subsequent Report | Casing Repair Change Plans | New Construction | Recomplete Other |
| Final Abandonment Notic | | = . | Water Disposal |
| the proposal is to deepen dire the Bond under which the we completion of the involved o | ectionally or recomplete horizond ork will be perfonned or provide perations. If the operation results ent Notices must be filed only aff | ally, give subsurface locations and mea the Bond No. on file with BLM/BIA. F s in a multiple completion or recomplet | starting date of any proposed work and approximate duration thereof. If asured and true vertical depths of all pertinent markers and zones. Attack Required subsequent reports must be filed within 30 days following tion in a new interval, a Form 3160-4 must be filed once testing has been tion, have been completed and the operator has detennined that the site |

| 14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) | | | |
|--|-------|---------------------------|--|
| | Title | | |
| Signature | Date | | |
| THE SPACE FOR FEDE | | FICE USE | |
| Approved by | | | |
| | Title | | Date |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant 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. | | | |
| Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within | | illfully to make to any d | epartment or agency of the United States |

(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.

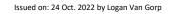
Response to this request is mandatory.

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: NWNW / 450 FNL / 484 FWL / TWSP: 25S / RANGE: 31E / SECTION: 11 / LAT: 32.150986 / LONG: -103.755654 (TVD: 0 feet, MD: 0 feet) PPP: NWNW / 100 FNL / 330 FWL / TWSP: 25S / RANGE: 31E / SECTION: 11 / LAT: 32.151954 / LONG: -103.756152 (TVD: 8424 feet, MD: 8460 feet) BHL: SWSW / 20 FSL / 330 FWL / TWSP: 25S / RANGE: 31E / SECTION: 14 / LAT: 32.123165 / LONG: -103.756258 (TVD: 9100 feet, MD: 19317 feet) 



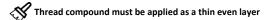
| OD | Weight (lb/ft) | Wall Th. | Grade | API Drift: | Connection |
|-----------|------------------------------------|-----------|---------|------------|-------------------|
| 5 1/2 in. | Nominal: 20.00 Plain End: 19.83 | 0.361 in. | P110 EC | 4.653 in. | VAM® SPRINT-TC SC |

| PIPE PROPERTIES | | |
|--------------------------------|-------|---------|
| Nominal OD | 5.500 | in. |
| Nominal ID | 4.778 | in. |
| Nominal Cross Section Area | 5.828 | sqin. |
| Grade Type | Hig | h Yield |
| Min. Yield Strength | 125 | ksi |
| Max. Yield Strength | 140 | ksi |
| Min. Ultimate Tensile Strength | 135 | ksi |

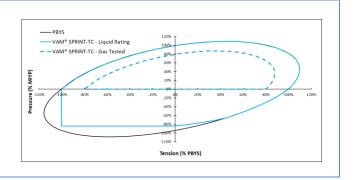
| CONNECTION PROPERTIES | | |
|------------------------------|-------|-----------|
| Connection Type | | T&C |
| Connection OD (nom): | 5.900 | in. |
| Connection ID (nom): | 4.829 | in. |
| Make-Up Loss | 3.972 | in. |
| Coupling Length | 8.753 | in. |
| Critical Cross Section | 5.828 | sqin. |
| Tension Efficiency | 100.0 | % of pipe |
| Compression Efficiency | 100.0 | % of pipe |
| Internal Pressure Efficiency | 100.0 | % of pipe |
| External Pressure Efficiency | 100.0 | % of pipe |

| CONNECTION PERFORMA | NCES | |
|---------------------------------------|--------|---------|
| Tensile Yield Strength | 729 | klb |
| Compression Resistance | 729 | klb |
| Internal Yield Pressure | 14,360 | psi |
| Collapse Resistance | 12,080 | psi |
| Max. Structural Bending | 104 | °/100ft |
| Max. Bending with ISO/API Sealability | 30 | °/100ft |
| Max. Load on Coupling Face | 290 | klb |
| * 87.5% RBW | | |

| TORQUE VALUES | | |
|------------------------------------|--------|-------|
| Min. Make-up torque | 23,000 | ft.lb |
| Opt. Make-up torque | 24,000 | ft.lb |
| Max. Make-up torque | 25,000 | ft.lb |
| Max. Torque with Sealability (MTS) | 39,200 | ft.lb |
| Min. Locked Flank Torque | 1,200 | ft.lb |
| Max. Locked Flank Torque | 16,800 | ft.lb |



VAM® SPRINT-TC is a threaded and coupled connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections.



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

canada@vamfieldservice.com usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com uk@vamfieldservice.com dubai@vamfieldservice.com nigeria@vamfieldservice.com angola@vamfieldservice.com china@vamfieldservice.com baku@vamfieldservice.com singapore@vamfieldservice.com australia@vamfieldservice.com

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



| | MO-FXL | | | MO-FXL 7 | |
|------------------------------|---|---|--|---|--|
| | | | CDS# | P110HSCY | |
| Metal <mark>O</mark> ne | *1 Pipe Body: BMP P110HSC | 020// | MinYS | | |
| | Min95%WT | | | Min95 | |
| | Connection Data | a Sheet | Date | 20-Se | ep-23 |
| | Geometry | <u>Imperia</u> | <u>1 </u> | <u>S.I.</u> | |
| | Pipe Body | | | | |
| | Grade * | P110HSCY | | P110HSCY | |
| | Pipe OD (D) | 7 5/8 | in | 193.68 | mm |
| MO-FXL | Weight | 29.70 | lb/ft | 44.25 | kg/m |
| | Actual weight | 29.04 | | 43.26 | kg/m |
| | Wall Thickness (t) | 0.375 | in | 9.53 | mm |
| | Pipe ID(d) | 6.875 | in | 174.63 | mm |
| | Pipe body cross section | 8.541 | in ² | 5,510 | mm ² |
| | Drift Dia. | 6.750 | in | 171.45 | mm |
| | Connection | | | | |
| \uparrow \leftrightarrow | Box OD (W) | 7.625 | in | 193.68 | mm |
| | PIN ID | 6.875 | in | 174.63 | mm |
| Box | Make up Loss | 4.219 | in | 107.16 | mm |
| critical | Box Critical Area | 5.714 | in ² | 3686 | mm ² |
| area | Joint load efficiency | 70 | % | 70 | % |
| 5 | Thread Taper | | / 10 (1. | 2" per ft) | |
| d d | Number of Threads | | 5 | TPI | |
| | Performance Properties | for Pipe Body | | | |
| | | | | | |
| Γ | S.M.Y.S. *1 | 1,068 | kips | 4,749 | kN |
| critical | M.I.Y.P. *1 | 1,068 11,680 | psi | 80.55 | MPa |
| | M.I.Y.P. *1 Collapse Strength *1 | 1,068 11,680 7,200 | psi psi | 80.55 49.66 | MPa MPa |
| critical | M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 | 1,068 11,680 7,200 ied Minimum YIE um Internal Yiek i, Min95%WT, Co 5" 29.7lb/ft P110H | psi psi ELD Strer d Pressur llapse Stre SCY Rev3 | 80.55 49.66 ngth of Pipe bo e of Pipe body ength 7,200psi | MPa MPa dy |
| critical | M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties | 1,068 11,680 7,200 ied Minimum YIE um Internal Yiek i, Min95%WT, Co 5" 29.7lb/ft P110H for Connectio | psi psi ELD Strer d Pressur llapse Stre SCY Rev3 on | 80.55 49.66 ngth of Pipe bo e of Pipe body ength 7,200psi a, dated 9/19/202 | MPa MPa dy |
| critical | M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load | 1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Co 5" 29.7lb/ft P110H for Connectio 747 kips | psi psi ELD Strer d Pressur llapse Stre SCY Rev3 on (70% | 80.55 49.66 ngth of Pipe bo e of Pipe body ength 7,200psi a, dated 9/19/202 of S.M.Y.S.) | MPa MPa dy |
| critical | M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield Ioad Min. Compression Yield | 1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Co 5" 29.7lb/ft P110H for Connectio 747 kips 747 kips | psi psi ELD Strer d Pressur llapse Stre SCY Rev3 on (70% (70%) | 80.55 49.66 ngth of Pipe body e of Pipe body ength 7,200psi i, dated 9/19/202 of S.M.Y.S.) | MPa MPa dy |
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| critical | M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield Ioad Min. Compression Yield | 1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Co 5" 29.7lb/ft P110H for Connectio 747 kips 747 kips | psi psi ELD Strer d Pressur llapse Stre SCY Rev3 on (70% (70% (80%) | 80.55 49.66 agth of Pipe body e of Pipe body ength 7,200psi d, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) f Collapse S | MPa MPa dy |
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| critical | M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure | 1,068 11,680 7,200 ied Minimum YIE um Internal Yield i, Min95%WT, Co 5" 29.7lb/ft P110H for Connectio 747 kips 747 kips | psi psi ELD Strer d Pressur llapse Stre SCY Rev3 0 (70% (70% (80% 100% c | 80.55 49.66 agth of Pipe body e of Pipe body ength 7,200psi d, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) f Collapse S | MPa MPa dy |
| critical | M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque | 1,068 11,680 7,200 ied Minimum YIE um Internal Yiek i, Min95%WT, Co 5" 29.7lb/ft P110H for Connectic 747 kips 9,340 psi | psi psi ELD Strer d Pressur llapse Stre SCY Rev3 0 (70% (70% (80% 100% c 3 | 80.55 49.66 agth of Pipe body e of Pipe body ength 7,200psi a, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse S | MPa MPa dy |
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| critical | M.I.Y.P. *1 Collapse Strength *1 Note S.M.Y.S.= Specif M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 Performance Properties Tensile Yield load Min. Compression Yield Internal Pressure External Pressure Max. DLS (deg. /100ft) Recommended Torque Min. Opti. | 1,068 11,680 7,200 ied Minimum YIE um Internal Yiek i, Min95%WT, Co 5" 29.7lb/ft P110H for Connectio 747 kips 9,340 psi 9,340 psi 15,500 17,200 | psi psi ELD Strer d Pressur llapse Stre SCY Rev3 on (70% (70% (80%) 100% c 3 ft-lb ft-lb | 80.55 49.66 ngth of Pipe body e of Pipe body ength 7,200psi a, dated 9/19/202 of S.M.Y.S.) of S.M.Y.S.) of M.I.Y.P.) of Collapse S 0 21,000 23,300 | MPa MPa dy 23 trength N-m N-m |
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Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to <u>http://www.mtlo.co.jp/mo-con/_images/top/WebsiteTerms_Active_20333287_1.pdf</u> the contents of which are incorporated by reference into this Connection Data Sheet.

| DISTRICT I 1625 N. FRENCH DR., Phone: (575) 393-6161 F DISTRICT II 811 S. FIRST ST., A Phone: (575) 748-1283 DISTRICT III 1000 RIO BRAZOS R Phone: (505) 334-617 | Fax: (575) 393-0 RTESIA, NM Fax: (575) 744 D., AZTEC, N | 88210 8-9720 | DIL C | nerals & CONSE 1220 SO | : Natu ERV4 UTH S | ural H ATIC ST. FI | v Mexico Resources De DN DIVIS RANCIS DR. Rico 87505 | SION | Revised A Submit one copy t | 'orm C-102 agust 1, 2011 o appropriate ct Office |
|--|--|------------------|--|------------------------------|-------------------------|--------------------------|---|---|---|--|
| DISTRICT IV 1220 S. ST. FRANCIS D Phone: (505) 476-346 | | | | | | | | | □ AMEND | ED REPORT |
| Phone: (505) 476-346 | 30 Fax: (505) | 476-3462 | WELL LO | DCATION | AND | ACREA | GE DEDICATI | ON PLAT | | |
| API | Number | | | Pool Code | | Л | | Pool Name | | |
| | 30-015-55056 96641 PADUCA; BONE SPRING Property Code Property Name | | | | | | Well Nun | nber | | |
| | MULE 11-23 FED COM | | | | 301H | | | | | |
| OGRID No |). | 0. Operator Name | | | | Elevatio | | | | |
| 6137 | | | DEVON | ENERGY | PROI | DUCTI | ON COMPANY | , L.P. | 3419 | 9.1' |
| | | | | | Surfac | ee Loca | ation | | | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet fro | | North/South line | Feet from the | East/West line | County |
| D | 11 | 25-5 | 31-E | | 45 | 50 | NORTH | 484 | WEST | EDDY |
| | | | Bottom | Hole Loc | ation I | f Diffe | rent From Sur | face | | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet fro | | North/South line | Feet from the | East/West line | County |
| D | 23 | 25-5 | 31-E | | 129 | 79 | NORTH | 400 | WEST | EDDY |
| Dedicated Acres | s Joint o | r Infill Co | onsolidation | Code Ord | ler No. | | | | | |
| 720 | | | | | | | | | | |
| NO ALLO | WABLE W | | | | | | NTIL ALL INTER APPROVED BY | | EEN CONSOLID. | ATED |
| MULE 11-23 FED COM. EL: 3419.1' GEDDETIC CUDRDINATE NAD 83 NMSP EAST SURFACE LDCATION N:419143.80 E:72018.52 LAT:32150986 LDN:103.755654 KICK DFF PDINT CALLS: 49 FNL 401 FWL N: 419545 E: 720033 E: 720032.47 LAT: 32.151951 LDN:103.755026 LAT: 32.151951 LDN:103.755926 LAST TAKE POINT(PPP) 100' FNL 400' FWL SE N:407782.18 E: 720059.84 LAT:32.119756 LDN:103.755040 BOTTOM OF HOLE N:407702.18 E: 720050.80 LAT:32.139536 LDN:103.756002 A=N:419597.37 E:719631.8 B=N:4000 FNUE SE N:41163.5.77 E:720050.80 LAT:32.130393 LDN:103.756002 A=N:419597.37 E:719631.8 B=N:40307.33 E:724929.9 E=N:41638.94 E:72495.9 E=N:41638.94 E:72495.9 | S | | N N 0003448" E N N 0011135" W L N 0011720" | Lik | | A | о от 1244° г. Г. Сорона и сор | I hereby herein is true my knowledge organization ei or unleased mi including the or has a right location pursu. owner of such or to a volunt. compulsory poo by the division Signature Chelsey Gr Printed Nam chelsey.greu E-mail Addres SURVEYO Shown on this notes of actua. under my supe true and corre | break $5/2$ Da een e en@dvn.com s DR CERTIFICAT certify that the well for surveys made by for rrision, and that the rrision, and that the to to the best of m 04/2024 Date of Survey eal of Professiona R. $DEHOL MEXICO SURVEY SURVEY CONTRACTOR SURVEY CONTRACTOR SURVEY CONTRACTOR SURVEY CONTRACTOR SURVEY CONTRACTOR CONTRACTOR SURVEY CONTRACTOR SURVEY CONTRACTOR SURVEY CONTRACTOR SURVEY CONTRACTOR SURVEY CONTRACTOR CONTRACTOR SURVEY S$ | Vironation e best of t this r interest e location t this tith an interest, nt or a re entered 20/24 tte VION 11 location om field ne or e same is y belief. 11 Surveyor 4/10/24 |
| | 72 66 76 42 | | ≈ | S 89'49'27" W 2657.80' | S 89'49 | | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Certificate N | 04 0. 23261 Albert | 4/10/24 R. DeHoyos BY: CM |

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|---|---|---|---|---|---|---|---|--|
| | | | | | | | | |

| API # |
|-------|
|-------|

| 30-015-55056 | | |
|---|--------------------|-------------|
| Operator Name: | Property Name: | Well Number |
| DEVON ENERGY PRODUCTION COMPANY, LP. | MULE 11-23 FED COM | 301H |

Kick Off Point (KOP)

| UL | Section | Township | Range | Lot | Feet | From N/S | Feet | From E/W | County |
|----------|---------|----------|-------|-----------|------|----------|------|----------|--------|
| D | 11 | 25S | 31E | | 49 | FNL | 401 | FWL | EDDY |
| Latitude | | | | Longitude | | | NAD | | |
| 32.1520 | | | | 103.7560 | | | | 83 | |

First Take Point (FTP)

| UL D | Section | Township 25-S | Range 31-E | Lot | Feet 100 | From N/S | Feet 400 | From E/W | EDDY |
|-----------------------|---------|------------------|---------------|-------------------------|-------------|----------|-------------|-----------|------|
| Latitude 32.151951 | | | | Longitude 103.75 | 5926 | | | NAD 83 | |

Last Take Point (LTP)

| UL D | Section 23 | Township 25-S | Range 31-E | Lot | Feet 1219 | From N/S | Feet 400 | From E/W | County EDDY |
|-----------|------------|---------------|----------------------|-----|--------------|------------|-------------|----------|----------------|
| Latitude | | | | | 0 | Longitude | | | NAD |
| 32.119756 | | | | | | 103.756040 | | | 83 |

Is this well the defining well for the Horizontal Spacing Unit?

Is this well an infill well?

| v | |
|-----|--|
| Y Y | |

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

| API # | | |
|-------------------------------------|--------------------|-------------|
| Operator Name: | Property Name: | Well Number |
| DEVON ENERGY PRODUCTION COMPANY, LP | MULE 11-14 FED COM | 522H |

KZ 06/29/2018

SěAH 9.625" 40# .395" J-55

Dimensions (Nominal)

| Outside Diameter Wall | 9.625 0.395 | in. in. |
|--------------------------|----------------|------------|
| Inside Diameter | 8.835 | in. |
| Drift | 8.750 | in. |
| Weight, T&C | 40.000 | lbs./ft. |
| Weight, PE | 38.970 | lbs./ft. |

Performance Properties

| Collapse, PE | 2570 | psi |
|--|------|-----------|
| Internal Yield Pressure at Minimum Yield | | |
| PE | 3950 | psi |
| LTC | 3950 | psi |
| BTC | 3950 | psi |
| Yield Strength, Pipe Body | 630 | 1000 lbs. |
| Joint Strength | | |
| STC | 452 | 1000 lbs. |
| LTC | 520 | 1000 lbs. |
| втс | 714 | 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.

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed 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, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

1. Well Control Response:

1. Primary barrier remains fluid

2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:

- a) Annular first
- b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
- c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



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.

1. Geologic Formations

| TVD of target | 10475 | Pilot hole depth | N/A |
|---------------|-------|------------------------------|-----|
| MD at TD: | 22113 | Deepest expected fresh water | |

Basin

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

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

| | | Wt | Wt Casing Interval | | | | Casing Interval | | |
|-----------|-----------|-------|--------------------|--------------|--------------|---------|-----------------|----------|--|
| Hole Size | Csg. Size | (PPF) | Grade | Conn | From (MD) | To (MD) | From (TVD) | To (TVD) | |
| 13 1/2 | 9 5/8 | 40 | J-55 | BTC | 0 | 690 | 0 | 690 | |
| 8 3/4 | 7 5/8 | 29.7 | P110HSCY | MOFXL | 0 | 9843 | 0 | 9843 | |
| 6 3/4 | 5 1/2 | 20 | P110 | Sprint-TC SC | 0 | 22113 | 0 | 10475 | |

2. Casing Program (Primary Design)

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

3. Cementing Program (Primary Design)

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 | тос | Wt. ppg | Yld (ft3/sack) | Slurry Description |
|------------|-------|------|------------|-------------------|---|
| Surface | 370 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 375 | Surf | 13.0 | 2.3 | 2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives |
| | 291 | 6717 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 62 | 7943 | 9 | 3.27 | Lead: Class H /C + additives |
| Froduction | 776 | 9943 | 13.2 | 1.44 | Tail: Class H / C + additives |

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

.

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | T | Туре | | Tested to: |
|---|--------------|---------------------|--------------|---------------|---------------|-------------------------------|
| | | | Anı | nular | X | 50% of rated working pressure |
| Int 1 | 13-5/8" | 5M | Blind | d Ram | Х | |
| | 13-3/8 | 5101 | Pipe | Ram | | 5M |
| | | | Doub | le Ram | X | 5111 |
| | | | Other* | | | |
| | | | Δnnul | ar (5M) | х | 50% of rated working |
| | | | | . , | 24 | pressure |
| Production | 13-5/8" | 5M | | d Ram | X | |
| Troduction | 15 5/0 | 5111 | 1 | e Ram | | 5M |
| | | | | le Ram | X | 5111 |
| | | | Other* | | | |
| | | | Annul | ar (5M) | | |
| | | | Blind | d Ram | | |
| | | | Pipe | Ram | | |
| | | | Doub | le Ram | | 1 |
| | | | Other* | | | 1 |
| N A variance is requested for | the use of a | a diverter on the s | urface casin | g. See attach | ed for schema | atic. |
| Y A variance is requested to r | run a 5 M a | nnular on a 10M s | system | | | |

4. Pressure Control Equipment (Three String Design)

5. Mud Program (Three String Design)

| Section | Туре | 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, Co | oring and Testing | | | | | | | |
|-------------|---|--|--|--|--|--|--|--|
| | Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the | | | | | | | |
| Х | Completion Report and sbumitted 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. | | | | | | | |

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

7. Drilling Conditions

| Condition | Specfiy what type and where? | | | | | |
|----------------------------|------------------------------|--|--|--|--|--|
| BH pressure at deepest TVD | 5719 | | | | | |
| Abnormal temperature | No | | | | | |

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

Hydrogren 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 Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

| Ν | H2S is present |
|---|--------------------|
| Y | H2S plan attached. |

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.

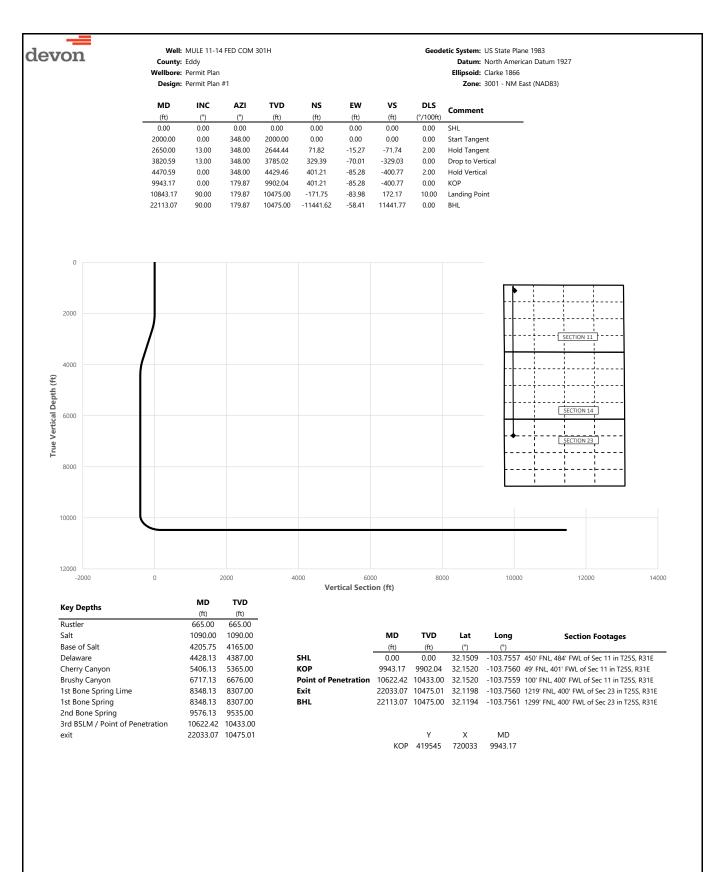
NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

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 (OnShore Order 2, 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 nippled 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



| . — | | | | | 0111 | | | | Conducto Constanto UC Contro Plano 1000 |
|-------|--------------------|------------------|-------------------|--------------------|------------------|------------------|--------------------|------------------|--|
| devon | | Well: County: | | 4 FED COM 3 | UIH | | | | Geodetic System: US State Plane 1983 Datum: North American Datum 1927 |
| | | | Permit Plan | | | | | | Ellipsoid: Clarke 1866 |
| | | | Permit Plan | | | | | | Zone: 3001 - NM East (NAD83) |
| | 140 | | | | NC | F14/ | VC | | |
| | 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 | 348.00 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 200.00 | 0.00 | 348.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 300.00 | 0.00 | 348.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 400.00 | 0.00 | 348.00 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 500.00 600.00 | 0.00 0.00 | 348.00 348.00 | 500.00 600.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | |
| | 665.00 | 0.00 | 348.00 | 665.00 | 0.00 | 0.00 | 0.00 | 0.00 | Rustler |
| | 700.00 | 0.00 | 348.00 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 800.00 | 0.00 | 348.00 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 900.00 | 0.00 | 348.00 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 1000.00 | 0.00 | 348.00 | 1000.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 1090.00 1100.00 | 0.00 0.00 | 348.00 348.00 | 1090.00 1100.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | Salt |
| | 1200.00 | 0.00 | 348.00 | 1200.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 1300.00 | 0.00 | 348.00 | 1300.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 1400.00 | 0.00 | 348.00 | 1400.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 1500.00 | 0.00 | 348.00 | 1500.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 1600.00 | 0.00 | 348.00 | 1600.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 1700.00 | 0.00 | 348.00 | 1700.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| | 1800.00 1900.00 | 0.00 0.00 | 348.00 348.00 | 1800.00 1900.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 | |
| | 2000.00 | 0.00 | 348.00 | 2000.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Tangent |
| | 2100.00 | 2.00 | 348.00 | 2099.98 | 1.71 | -0.36 | -1.71 | 2.00 | |
| | 2200.00 | 4.00 | 348.00 | 2199.84 | 6.83 | -1.45 | -6.82 | 2.00 | |
| | 2300.00 | 6.00 | 348.00 | 2299.45 | 15.35 | -3.26 | -15.33 | 2.00 | |
| | 2400.00 | 8.00 | 348.00 | 2398.70 | 27.27 | -5.80 | -27.24 | 2.00 | |
| | 2500.00 | 10.00 | 348.00 | 2497.47 | 42.57 | -9.05 | -42.52 | 2.00 | |
| | 2600.00 2650.00 | 12.00 13.00 | 348.00 348.00 | 2595.62 2644.44 | 61.23 71.82 | -13.02 -15.27 | -61.17 -71.74 | 2.00 2.00 | Hold Tangent |
| | 2700.00 | 13.00 | 348.00 | 2693.16 | 82.82 | -17.60 | -82.73 | 0.00 | hold rangent |
| | 2800.00 | 13.00 | 348.00 | 2790.59 | 104.83 | -22.28 | -104.71 | 0.00 | |
| | 2900.00 | 13.00 | 348.00 | 2888.03 | 126.83 | -26.96 | -126.69 | 0.00 | |
| | 3000.00 | 13.00 | 348.00 | 2985.47 | 148.83 | -31.64 | -148.67 | 0.00 | |
| | 3100.00 | 13.00 | 348.00 | 3082.90 | 170.84 | -36.31 | -170.65 | 0.00 | |
| | 3200.00 3300.00 | 13.00 13.00 | 348.00 348.00 | 3180.34 3277.78 | 192.84 214.84 | -40.99 -45.67 | -192.63 -214.61 | 0.00 0.00 | |
| | 3400.00 | 13.00 | 348.00 | 3375.21 | 236.85 | -50.34 | -236.59 | 0.00 | |
| | 3500.00 | 13.00 | 348.00 | 3472.65 | 258.85 | -55.02 | -258.57 | 0.00 | |
| | 3600.00 | 13.00 | 348.00 | 3570.09 | 280.85 | -59.70 | -280.54 | 0.00 | |
| | 3700.00 | 13.00 | 348.00 | 3667.53 | 302.86 | -64.38 | -302.52 | 0.00 | |
| | 3800.00 | 13.00 | 348.00 | 3764.96 | 324.86 | -69.05 | -324.50 | 0.00 | Develop Medical |
| | 3820.59 3900.00 | 13.00 11.41 | 348.00 348.00 | 3785.02 3862.64 | 329.39 345.81 | -70.01 -73.50 | -329.03 -345.43 | 0.00 2.00 | Drop to Vertical |
| | 4000.00 | 9.41 | 348.00 | 3960.99 | 363.49 | -77.26 | -363.09 | 2.00 | |
| | 4100.00 | 7.41 | 348.00 | 4059.91 | 377.80 | -80.30 | -377.38 | 2.00 | |
| | 4200.00 | 5.41 | 348.00 | 4159.27 | 388.72 | -82.63 | -388.29 | 2.00 | |
| | 4205.75 | 5.30 | 348.00 | 4165.00 | 389.24 | -82.74 | -388.82 | 2.00 | Base of Salt |
| | 4300.00 | 3.41 | 348.00 | 4258.97 | 396.24 | -84.22 | -395.81 | 2.00 | |
| | 4400.00 4428.13 | 1.41 0.85 | 348.00 348.00 | 4358.88 4387.00 | 400.36 400.90 | -85.10 -85.21 | -399.92 -400.46 | 2.00 2.00 | Delaware |
| | 4470.59 | 0.00 | 348.00 | 4429.46 | 401.21 | -85.28 | -400.77 | 2.00 | Hold Vertical |
| | 4500.00 | 0.00 | 179.87 | 4458.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 4600.00 | 0.00 | 179.87 | 4558.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 4700.00 | 0.00 | 179.87 | 4658.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 4800.00 | 0.00 | 179.87 | 4758.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 4900.00 5000.00 | 0.00 0.00 | 179.87 179.87 | 4858.87 4958.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 5100.00 | 0.00 | 179.87 | 5058.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 5200.00 | 0.00 | 179.87 | 5158.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 5300.00 | 0.00 | 179.87 | 5258.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 5400.00 | 0.00 | 179.87 | 5358.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 5406.13 | 0.00 | 179.87 | 5365.00 | 401.21 | -85.28 | -400.77 | 0.00 | Cherry Canyon |
| | 5500.00 | 0.00 | 179.87 | 5458.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 5600.00 5700.00 | 0.00 0.00 | 179.87 179.87 | 5558.87 5658.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 5800.00 | 0.00 | 179.87 | 5758.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 5900.00 | 0.00 | 179.87 | 5858.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6000.00 | 0.00 | 179.87 | 5958.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6100.00 | 0.00 | 179.87 | 6058.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | | | | | | | | | |

| levon | | | | 4 FED COM 3 | 01H | | | | Geodetic System: US State Plane 1983 |
|-------|----------------------|----------------|-------------------|----------------------|----------------------|------------------|--------------------|-------------------------|--------------------------------------|
| levon | | County: | Eddy | | | | | | Datum: North American Datum 1927 |
| | | | Permit Plar | | | | | | Ellipsoid: Clarke 1866 |
| | | Design: | Permit Plar | 1#1 | | | | | Zone: 3001 - NM East (NAD83) |
| | MD (ft) | INC (°) | AZI (°) | TVD (ft) | NS (ft) | EW (ft) | VS (ft) | DLS (°/100ft) | Comment |
| - | 6200.00 | 0.00 | 179.87 | 6158.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6300.00 | 0.00 | 179.87 | 6258.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6400.00 | 0.00 | 179.87 | 6358.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6500.00 6600.00 | 0.00 0.00 | 179.87 179.87 | 6458.87 6558.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 6700.00 | 0.00 | 179.87 | 6658.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6717.13 | 0.00 | 179.87 | 6676.00 | 401.21 | -85.28 | -400.77 | 0.00 | Brushy Canyon |
| | 6800.00 | 0.00 | 179.87 | 6758.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6900.00 | 0.00 | 179.87 | 6858.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7000.00 7100.00 | 0.00 0.00 | 179.87 179.87 | 6958.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7200.00 | 0.00 | 179.87 | 7058.87 7158.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 7300.00 | 0.00 | 179.87 | 7258.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7400.00 | 0.00 | 179.87 | 7358.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7500.00 | 0.00 | 179.87 | 7458.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7600.00 | 0.00 | 179.87 | 7558.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7700.00 7800.00 | 0.00 0.00 | 179.87 179.87 | 7658.87 7758.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 7800.00 | 0.00 | 179.87 | 7858.87 | 401.21 | -85.28 -85.28 | -400.77 | 0.00 | |
| | 8000.00 | 0.00 | 179.87 | 7958.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8100.00 | 0.00 | 179.87 | 8058.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8200.00 | 0.00 | 179.87 | 8158.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8300.00 8348.13 | 0.00 0.00 | 179.87 179.87 | 8258.87 8307.00 | 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | 1st Pone Spring Lime |
| | 8400.00 | 0.00 | 179.87 | 8358.87 | 401.21 401.21 | -85.28 | -400.77 | 0.00 | 1st Bone Spring Lime |
| | 8500.00 | 0.00 | 179.87 | 8458.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8600.00 | 0.00 | 179.87 | 8558.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8700.00 | 0.00 | 179.87 | 8658.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8800.00 | 0.00 | 179.87 | 8758.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8900.00 9000.00 | 0.00 0.00 | 179.87 179.87 | 8858.87 8958.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 9100.00 | 0.00 | 179.87 | 9058.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9200.00 | 0.00 | 179.87 | 9158.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9300.00 | 0.00 | 179.87 | 9258.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9373.13 | 0.00 | 179.87 | 9332.00 | 401.21 | -85.28 | -400.77 | 0.00 | 1st Bone Spring |
| | 9400.00 9500.00 | 0.00 0.00 | 179.87 179.87 | 9358.87 9458.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 9576.13 | 0.00 | 179.87 | 9535.00 | 401.21 | -85.28 | -400.77 | 0.00 | 2nd Bone Spring |
| | 9600.00 | 0.00 | 179.87 | 9558.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9700.00 | 0.00 | 179.87 | 9658.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9800.00 | 0.00 | 179.87 | 9758.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9900.00 | 0.00 0.00 | 179.87 | 9858.87 9902.04 | 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | КОР |
| | 9943.17 10000.00 | 0.00 5.68 | 179.87 179.87 | 9902.04 9958.78 | 401.21 398.39 | -85.28 -85.27 | -397.95 | 10.00 | |
| | 10100.00 | 15.68 | 179.87 | 10056.92 | 379.88 | -85.23 | -379.44 | 10.00 | |
| | 10200.00 | 25.68 | 179.87 | 10150.36 | 344.60 | -85.15 | -344.17 | 10.00 | |
| | 10300.00 | 35.68 | 179.87 | 10236.25 | 293.64 | -85.04 | -293.20 | 10.00 | |
| | 10400.00 10500.00 | 45.68 55.68 | 179.87 179.87 | 10311.99 10375.27 | 228.54 151.27 | -84.89 -84.71 | -228.10 -150.83 | 10.00 10.00 | |
| | 10500.00 | 55.68 65.68 | 179.87 | 10375.27 10424.17 | 151.27 64.19 | -84.71 -84.51 | - 150.83 -63.76 | 10.00 | |
| | 10622.42 | 67.93 | 179.87 | 10433.00 | 43.58 | -84.47 | -43.15 | 10.00 | 3rd BSLM / Point of Penetration |
| | 10700.00 | 75.68 | 179.87 | 10457.21 | -30.06 | -84.30 | 30.49 | 10.00 | |
| | 10800.00 | 85.68 | 179.87 | 10473.37 | -128.62 | -84.08 | 129.05 | 10.00 | |
| | 10843.17 | 90.00 | 179.87 | 10475.00 | -171.75 | -83.98 | 172.17 | 10.00 | Landing Point |
| | 10900.00 11000.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -228.58 -328.58 | -83.85 -83.62 | 229.00 329.00 | 0.00 0.00 | |
| | 111000.00 | 90.00 | 179.87 | 10475.00 | -428.58 | -83.40 | 429.00 | 0.00 | |
| | 11200.00 | 90.00 | 179.87 | 10475.00 | -528.58 | -83.17 | 528.99 | 0.00 | |
| | 11300.00 | 90.00 | 179.87 | 10475.00 | -628.58 | -82.94 | 628.99 | 0.00 | |
| | 11400.00 | 90.00 | 179.87 | 10475.00 | -728.58 | -82.71 | 728.99 | 0.00 | |
| | 11500.00 | 90.00 | 179.87 | 10475.00 | -828.58 | -82.49 | 828.99 | 0.00 | |
| | 11600.00 11700.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -928.58 -1028.57 | -82.26 -82.03 | 928.98 1028.98 | 0.00 0.00 | |
| | 11800.00 | 90.00 | 179.87 | 10475.00 | -1128.57 | -81.81 | 1128.98 | 0.00 | |
| | 11900.00 | 90.00 | 179.87 | 10475.00 | -1228.57 | -81.58 | 1228.98 | 0.00 | |
| | 12000.00 | 90.00 | 179.87 | 10475.00 | -1328.57 | -81.35 | 1328.97 | 0.00 | |
| | 12100.00 | 90.00 | 179.87 | 10475.00 | -1428.57 | -81.12 | 1428.97 | 0.00 | |
| | 12200.00 12300.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -1528.57 -1628.57 | -80.90 -80.67 | 1528.97 1628.96 | 0.00 0.00 | |
| | 12400.00 | 90.00 | 179.87 | | -1728.57 | -80.44 | 1728.96 | 0.00 | |

| | | Well: | MULE 11-1 | 4 FED COM 3 | 01H | | | | Geodetic System: US State Plane 1983 |
|-------|----------------------|----------------|------------------|----------------------|----------------------|------------------|--------------------|--------------|--------------------------------------|
| devon | | County: | | | | | | | Datum: North American Datum 1927 |
| | | | Permit Plan | | | | | | Ellipsoid: Clarke 1866 |
| | | Design: | Permit Plar | 1#1 | | | | | Zone: 3001 - NM East (NAD83) |
| | MD | INC | AZI | TVD | NS | EW | vs | DLS | Comment |
| | (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (°/100ft) |) |
| | 12500.00 12600.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -1828.57 -1928.57 | -80.22 -79.99 | 1828.96 1928.96 | 0.00 0.00 | |
| | 12700.00 | 90.00 | 179.87 | 10475.00 | -2028.57 | -79.76 | 2028.95 | 0.00 | |
| | 12800.00 | 90.00 | 179.87 | 10475.00 | -2128.57 | -79.53 | 2128.95 | 0.00 | |
| | 12900.00 13000.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -2228.57 -2328.57 | -79.31 -79.08 | 2228.95 2328.95 | 0.00 0.00 | |
| | 13100.00 | 90.00 | 179.87 | 10475.00 | -2428.57 | -78.85 | 2428.94 | 0.00 | |
| | 13200.00 | 90.00 | 179.87 | 10475.00 | -2528.57 | -78.63 | 2528.94 | 0.00 | |
| | 13300.00 | 90.00 | 179.87 | 10475.00 | -2628.57 | -78.40 | 2628.94 | 0.00 | |
| | 13400.00 13500.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -2728.57 -2828.57 | -78.17 -77.94 | 2728.93 2828.93 | 0.00 0.00 | |
| | 13600.00 | 90.00 | 179.87 | 10475.00 | -2928.57 | -77.72 | 2928.93 | 0.00 | |
| | 13700.00 | 90.00 | 179.87 | 10475.00 | -3028.57 | -77.49 | 3028.93 | 0.00 | |
| | 13800.00 13900.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -3128.57 -3228.57 | -77.26 -77.04 | 3128.92 3228.92 | 0.00 0.00 | |
| | 14000.00 | 90.00 | 179.87 | 10475.00 | -3328.57 | -76.81 | 3328.92 | 0.00 | |
| | 14100.00 | 90.00 | 179.87 | 10475.00 | -3428.57 | -76.58 | 3428.92 | 0.00 | |
| | 14200.00 | 90.00 | 179.87 | 10475.00 | -3528.57 | -76.35 | 3528.91 | 0.00 | |
| | 14300.00 14400.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -3628.57 -3728.57 | -76.13 -75.90 | 3628.91 3728.91 | 0.00 0.00 | |
| | 14500.00 | 90.00 | 179.87 | 10475.00 | -3828.57 | -75.67 | 3828.90 | 0.00 | |
| | 14600.00 | 90.00 | 179.87 | 10475.00 | -3928.57 | -75.45 | 3928.90 | 0.00 | |
| | 14700.00 14800.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -4028.57 -4128.57 | -75.22 -74.99 | 4028.90 4128.90 | 0.00 0.00 | |
| | 14900.00 | 90.00 | 179.87 | 10475.01 | -4228.57 | -74.76 | 4128.90 | 0.00 | |
| | 15000.00 | 90.00 | 179.87 | 10475.01 | -4328.57 | -74.54 | 4328.89 | 0.00 | |
| | 15100.00 | 90.00 | 179.87 | 10475.01 | -4428.57 | -74.31 | 4428.89 | 0.00 | |
| | 15200.00 15300.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -4528.57 -4628.57 | -74.08 -73.86 | 4528.89 4628.88 | 0.00 0.00 | |
| | 15400.00 | 90.00 | 179.87 | 10475.01 | -4728.57 | -73.63 | 4728.88 | 0.00 | |
| | 15500.00 | 90.00 | 179.87 | 10475.01 | -4828.57 | -73.40 | 4828.88 | 0.00 | |
| | 15600.00 15700.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -4928.56 -5028.56 | -73.17 -72.95 | 4928.87 5028.87 | 0.00 0.00 | |
| | 15800.00 | 90.00 | 179.87 | 10475.01 | -5128.56 | -72.72 | 5128.87 | 0.00 | |
| | 15900.00 | 90.00 | 179.87 | 10475.01 | -5228.56 | -72.49 | 5228.87 | 0.00 | |
| | 16000.00 | 90.00 | 179.87 | 10475.01 | -5328.56 | -72.27 | 5328.86 | 0.00 | |
| | 16100.00 16200.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -5428.56 -5528.56 | -72.04 -71.81 | 5428.86 5528.86 | 0.00 0.00 | |
| | 16300.00 | 90.00 | 179.87 | 10475.01 | -5628.56 | -71.58 | 5628.86 | 0.00 | |
| | 16400.00 | 90.00 | 179.87 | 10475.01 | -5728.56 | -71.36 | 5728.85 | 0.00 | |
| | 16500.00 16600.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -5828.56 -5928.56 | -71.13 -70.90 | 5828.85 5928.85 | 0.00 0.00 | |
| | 16700.00 | 90.00 | 179.87 | 10475.01 | | -70.68 | 6028.84 | 0.00 | |
| | 16800.00 | 90.00 | 179.87 | 10475.01 | -6128.56 | -70.45 | 6128.84 | 0.00 | |
| | 16900.00 17000.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -6228.56 -6328.56 | -70.22 -69.99 | 6228.84 6328.84 | 0.00 0.00 | |
| | 17100.00 | 90.00 | 179.87 | 10475.01 | -6428.56 | -69.77 | 6428.83 | 0.00 | |
| | 17200.00 | 90.00 | 179.87 | 10475.01 | -6528.56 | -69.54 | 6528.83 | 0.00 | |
| | 17300.00 | 90.00 | 179.87 | 10475.01 | -6628.56 | -69.31 | 6628.83 | 0.00 | |
| | 17400.00 17500.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -6728.56 -6828.56 | -69.09 -68.86 | 6728.83 6828.82 | 0.00 0.00 | |
| | 17600.00 | 90.00 | 179.87 | 10475.01 | -6928.56 | -68.63 | 6928.82 | 0.00 | |
| | 17700.00 | 90.00 | 179.87 | 10475.01 | -7028.56 | -68.40 | 7028.82 | 0.00 | |
| | 17800.00 17900.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -7128.56 -7228.56 | -68.18 -67.95 | 7128.81 7228.81 | 0.00 0.00 | |
| | 18000.00 | 90.00 | 179.87 | 10475.01 | -7328.56 | -67.72 | 7328.81 | 0.00 | |
| | 18100.00 | 90.00 | 179.87 | 10475.01 | -7428.56 | -67.50 | 7428.81 | 0.00 | |
| | 18200.00 | 90.00 | 179.87 | 10475.01 | -7528.56 | -67.27 | 7528.80 | 0.00 | |
| | 18300.00 18400.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -7628.56 -7728.56 | -67.04 -66.81 | 7628.80 7728.80 | 0.00 0.00 | |
| | 18500.00 | 90.00 | 179.87 | 10475.01 | -7828.56 | -66.59 | 7828.80 | 0.00 | |
| | 18600.00 | 90.00 | 179.87 | 10475.01 | -7928.56 | -66.36 | 7928.79 | 0.00 | |
| | 18700.00 18800.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -8028.56 -8128.56 | -66.13 -65.91 | 8028.79 8128.79 | 0.00 0.00 | |
| | 18900.00 | 90.00 | 179.87 | 10475.01 | -8228.56 | -65.68 | 8228.78 | 0.00 | |
| | 19000.00 | 90.00 | 179.87 | 10475.01 | -8328.56 | -65.45 | 8328.78 | 0.00 | |
| | 19100.00 | 90.00 | 179.87 | 10475.01 | -8428.56 | -65.22 | 8428.78 | 0.00 | |
| | 19200.00 19300.00 | 90.00 90.00 | 179.87 179.87 | 10475.01 10475.01 | -8528.56 -8628.56 | -65.00 -64.77 | 8528.78 8628.77 | 0.00 0.00 | |
| | 19400.00 | 90.00 | 179.87 | 10475.01 | -8728.56 | -64.54 | 8728.77 | 0.00 | |
| | | | | | | | | | |

| evon | Well: MULE 11-14 FED COM 301H 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 | |
| | 19500.00 | 90.00 | 179.87 | 10475.01 | -8828.55 | -64.32 | 8828.77 | 0.00 | | |
| | 19600.00 | 90.00 | 179.87 | 10475.01 | -8928.55 | -64.09 | 8928.77 | 0.00 | | |
| | 19700.00 | 90.00 | 179.87 | 10475.01 | -9028.55 | -63.86 | 9028.76 | 0.00 | | |
| | 19800.00 | 90.00 | 179.87 | 10475.01 | -9128.55 | -63.63 | 9128.76 | 0.00 | | |
| | 19900.00 | 90.00 | 179.87 | 10475.01 | -9228.55 | -63.41 | 9228.76 | 0.00 | | |
| | 20000.00 | 90.00 | 179.87 | 10475.01 | -9328.55 | -63.18 | 9328.75 | 0.00 | | |
| | 20100.00 | 90.00 | 179.87 | 10475.01 | -9428.55 | -62.95 | 9428.75 | 0.00 | | |
| | 20200.00 | 90.00 | 179.87 | 10475.01 | -9528.55 | -62.73 | 9528.75 | 0.00 | | |
| | 20300.00 | 90.00 | 179.87 | 10475.01 | -9628.55 | -62.50 | 9628.75 | 0.00 | | |
| | 20400.00 | 90.00 | 179.87 | 10475.01 | -9728.55 | -62.27 | 9728.74 | 0.00 | | |
| | 20500.00 | 90.00 | 179.87 | 10475.01 | -9828.55 | -62.04 | 9828.74 | 0.00 | | |
| | 20600.00 | 90.00 | 179.87 | 10475.01 | -9928.55 | -61.82 | 9928.74 | 0.00 | | |
| | 20700.00 | 90.00 | 179.87 | 10475.01 | -10028.55 | -61.59 | 10028.74 | 0.00 | | |
| | 20800.00 | 90.00 | 179.87 | 10475.01 | -10128.55 | -61.36 | 10128.73 | 0.00 | | |
| | 20900.00 | 90.00 | 179.87 | 10475.01 | -10228.55 | -61.13 | 10228.73 | 0.00 | | |
| | 21000.00 | 90.00 | 179.87 | 10475.01 | -10328.55 | -60.91 | 10328.73 | 0.00 | | |
| | 21100.00 | 90.00 | 179.87 | 10475.01 | -10428.55 | -60.68 | 10428.72 | 0.00 | | |
| | 21200.00 | 90.00 | 179.87 | 10475.01 | -10528.55 | -60.45 | 10528.72 | 0.00 | | |
| | 21300.00 | 90.00 | 179.87 | 10475.01 | -10628.55 | -60.23 | 10628.72 | 0.00 | | |
| | 21400.00 | 90.00 | 179.87 | 10475.01 | -10728.55 | -60.00 | 10728.72 | 0.00 | | |
| | 21500.00 | 90.00 | 179.87 | | -10828.55 | -59.77 | 10828.71 | 0.00 | | |
| | 21600.00 | 90.00 | 179.87 | | -10928.55 | -59.54 | 10928.71 | 0.00 | | |
| | 21700.00 | 90.00 | 179.87 | | -11028.55 | -59.32 | 11028.71 | 0.00 | | |
| | 21800.00 | 90.00 | 179.87 | | -11128.55 | -59.09 | 11128.71 | 0.00 | | |
| | 21900.00 | 90.00 | 179.87 | | -11228.55 | -58.86 | 11228.70 | 0.00 | | |
| | 22000.00 | 90.00 | 179.87 | | -11328.55 | -58.64 | 11328.70 | 0.00 | | |
| | 22033.07 | 90.00 | 179.87 | | -11361.62 | -58.56 | 11361.77 | 0.00 | exit | |
| | 22100.00 | 90.00 | 179.87 | | -11428.55 | -58.41 | 11428.70 | 0.00 | | |
| | 22113.07 | 90.00 | 179.87 | 10475.00 | -11441.62 | -58.41 | 11441.77 | 0.00 | BHL | |

| Received by OCD: \$723/2024 9:57:03 AM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT | | Sundry Print Reports |
|--|---|--------------------------------|
| Well Name: MULE 11-14 FED COM | Well Location: T25S / R31E / SEC 11 / NWNW / 32.150986 / -103.755654 | County or Parish/State: EDDY / |
| Well Number: 531H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM0503 | Unit or CA Name: | Unit or CA Number: |
| US Well Number: | Operator: DEVON ENERGY PRODUCTION COMPANY LP | |

Notice of Intent

Sundry ID: 2791190

Type of Submission: Notice of Intent

Date Sundry Submitted: 05/21/2024

Date proposed operation will begin: 05/20/2024

Type of Action: APD Change Time Sundry Submitted: 08:19

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to change the well name, BHL, depth, and slim hold design on the subject well. Devon also request a variance for offline cementing and break test. Please see attached revised C102, Drill plan, directional plan, variance requests. API: 30-015-55056 Permitted Well name: MULE 11-14 FED COM 531H Proposed Well name: MULE 11-23 FED COM 301H Permitted BHL: SWSW, 20 FSL, 330 FWL, 14-25S-31E Proposed BHL: NWNW, 1299 FNL, 400 FWL, 23-25S-31E Permitted TVD/MD: 9100/19317 Proposed TVD/MD: 10475/22113

NOI Attachments

Procedure Description

5.5_20lb_P110EC_VAM_SPRINT_TC_SC_20240521081745.pdf

7_625_29_7lb_P110HSCY_MOFXL_20240521081744.pdf

WA018222941_MULE_11_23_FED_COM_301H_WL_R1_SIGNED_20240521081745.pdf

9.625_40lb_J55_SeAH_20240521081745.pdf

break_test_variance_BOP_1_15_24_20240520064335.pdf

Offline_Cementing___Variance_Request_20240520064334.pdf

MULE_11_14_FED_COM_301H_Slim_Hole_20240520063335.pdf

MULE_11_14_FED_COM_301H_Directional_Plan_04_23_24_20240520063335.pdf

| Received by OCD: 5/23/2024 9:57:03 AM Well Name: MULE 11-14 FED COM | Well Location: T25S / R31E / SEC 11 / NWNW / 32.150986 / -103.755654 | County or Parish/State: EBB? of S |
|--|---|-----------------------------------|
| Well Number: 531H | Type of Well: OIL WELL | Allottee or Tribe Name: |
| Lease Number: NMNM0503 | 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: CHELSEY GREENName: DEVON ENERGY PRODUCTION COMPANY LPTitle: Regulatory Compliance ProfessionalStreet Address: 333 West Sheridan AvenueCity: Oklahoma CityState: OKPhone: (405) 228-8595

Email address: Chelsey.Green@dvn.com

Field

Representative Name: Street Address: City: State: Phone: Email address:

Zip:

Signed on: MAY 20, 2024 06:31 AM

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| OPERATOR'S NAME: LEASE NO.: | Devon Energy Production Company LP NMNM0503 |
|--------------------------------|--|
| | Section 11, T.25 S., R.31 E., NMPM |
| COUNTY: | Eddy County, New Mexico 🔽 |

| WELL NAME & NO.: | Mule 11-23 Fed Com 301H |
|----------------------------|-------------------------|
| SURFACE HOLE FOOTAGE: | 450'/N & 484'/W |
| BOTTOM HOLE FOOTAGE | 1299'/N & 400'/W |
| ATS/API ID: | 3001555056 |
| APD ID: | 10400066718 |
| Sundry ID: | 2791190 |

COA

| H2S | Yes 🔽 | | |
|-------------------------|---------------------------|--------------|----------------|
| Potash | None 🔽 | | |
| Cave/Karst Potential | Low | | |
| Cave/Karst Potential | Critical | | |
| Variance | C None | 🖸 Flex Hose | C Other |
| Wellhead | Conventional and Multibow | /I 👤 | |
| Other | □ 4 String | Capitan Reef | □ WIPP |
| | | None 🝷 | |
| Other | Pilot Hole | Open Annulus | |
| | None 🔽 | | |
| Cementing | Contingency Squeeze | Echo-Meter | Primary Cement |
| | None 🔫 | Int 1 🔻 | Squeeze |
| | | | None – |
| Special | □ Water | COM | Unit Unit |
| Requirements | Disposal/Injection | | |
| Special | Batch Sundry | | |
| Requirements | | | |
| Special | Break Testing | ✓ Offline | \Box Casing |
| Requirements | | Cementing | Clearance |
| Variance | | | |

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

- The 9-5/8 inch surface casing shall be set at approximately 725 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 13 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 <u>8</u> <u>hours</u> 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 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

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

Option 2:

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

- a. First stage: Operator will cement with intent to reach the top of the Brushy Canyon at 6676' (291 sxs Class H/C+ additives).
- b. Second stage:

• Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 375 sxs Class C)

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. <u>Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.</u>

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.

- 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.

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 **7-5/8** 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 **9-5/8** 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

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 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.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report when present.
- 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24</u> <u>hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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

- 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, cutoff cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

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

D. WASTE MATERIAL AND FLUIDS

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

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

Long Vo (LVO) 5/22/2024

Received by OCD: 5/23/2024 9:57:03 AM

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|------|----|-----|----|
| Page | 36 | 01 | 58 |
| | | - 3 | |

| BU SUNDRY Do not use this | UNITED STATI EPARTMENT OF THE I REAU OF LAND MAN NOTICES AND REPO form for proposals Use Form 3160-3 (A | | FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No. 6. If Indian, Allottee or Tribe Name | | | |
|--|--|---|--|---|---|--|
| SUBMIT | NTRIPLICATE - Other instr | uctions on page 2 | | 7. If Unit of CA/Agreen | nent, Name and/or No. | |
| 1. Type of Well Oil Well Ga | s Well Other | | | 8. Well Name and No. | | |
| 2. Name of Operator | | | | 9. API Well No. | | |
| 3a. Address | 3b. Phone No. (include area code) | | 10. Field and Pool or Exploratory Area | | | |
| 4. Location of Well (Footage, Sec., 7 | .,R.,M., or Survey Description |) | | 11. Country or Parish, State | | |
| 12. Cl | HECK THE APPROPRIATE B | SOX(ES) TO INDICATE NATURE | E OF NOT | ICE, REPORT OR OTHI | ER DATA | |
| TYPE OF SUBMISSION | | TY | PE OF AC | TION | | |
| Notice of Intent | Acidize | Deepen Hydraulic Fracturing | | oduction (Start/Resume) Water Shut-Off clamation Well Integrity | | |
| Subsequent Report | Casing Repair Change Plans | New Construction Plug and Abandon Plug Back | Tem | omplete porarily Abandon er Disposal | Other | |
| the proposal is to deepen direction the Bond under which the work completion of the involved opera | nally or recomplete horizontal will be perfonned or provide th ttions. If the operation results i | lly, give subsurface locations and n he Bond No. on file with BLM/BIA n a multiple completion or recomp | neasured a Required letion in a | nd true vertical depths of d subsequent reports must new interval, a Form 316 | k and approximate duration thereof. If all pertinent markers and zones. Attach t be filed within 30 days following 60-4 must be filed once testing has been e operator has detennined that the site | |

| 14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>) | | | |
|--|----------------|---------------------------|--|
| | Title | | |
| Signature | Date | | |
| THE SPACE FOR FEDE | RAL OR STATE O | FICE USE | |
| Approved by | | | |
| | Title | | Date |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lea which would entitle the applicant to conduct operations thereon. | | | |
| Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within | | illfully to make to any d | epartment or agency of the United States |

(Instructions on page 2)

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.

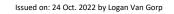
Response to this request is mandatory.

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: NWNW / 450 FNL / 484 FWL / TWSP: 25S / RANGE: 31E / SECTION: 11 / LAT: 32.150986 / LONG: -103.755654 (TVD: 0 feet, MD: 0 feet) PPP: NWNW / 100 FNL / 330 FWL / TWSP: 25S / RANGE: 31E / SECTION: 11 / LAT: 32.151954 / LONG: -103.756152 (TVD: 8424 feet, MD: 8460 feet) BHL: SWSW / 20 FSL / 330 FWL / TWSP: 25S / RANGE: 31E / SECTION: 14 / LAT: 32.123165 / LONG: -103.756258 (TVD: 9100 feet, MD: 19317 feet) 



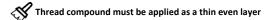
| OD | Weight (lb/ft) | Wall Th. | Grade | API Drift: | Connection |
|-----------|------------------------------------|-----------|---------|------------|-------------------|
| 5 1/2 in. | Nominal: 20.00 Plain End: 19.83 | 0.361 in. | P110 EC | 4.653 in. | VAM® SPRINT-TC SC |

| PIPE PROPERTIES | | |
|--------------------------------|-------|----------|
| Nominal OD | 5.500 | in. |
| Nominal ID | 4.778 | in. |
| Nominal Cross Section Area | 5.828 | sqin. |
| Grade Type | Hig | gh Yield |
| Min. Yield Strength | 125 | ksi |
| Max. Yield Strength | 140 | ksi |
| Min. Ultimate Tensile Strength | 135 | ksi |

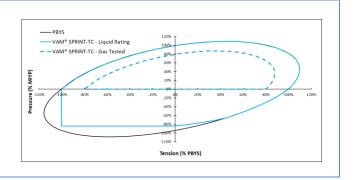
| CONNECTION PROPERTIES | | |
|------------------------------|-------|-----------|
| Connection Type | | T&C |
| Connection OD (nom): | 5.900 | in. |
| Connection ID (nom): | 4.829 | in. |
| Make-Up Loss | 3.972 | in. |
| Coupling Length | 8.753 | in. |
| Critical Cross Section | 5.828 | sqin. |
| Tension Efficiency | 100.0 | % of pipe |
| Compression Efficiency | 100.0 | % of pipe |
| Internal Pressure Efficiency | 100.0 | % of pipe |
| External Pressure Efficiency | 100.0 | % of pipe |

| CONNECTION PERFORMANCES | | | | | | | | |
|---------------------------------------|--------|---------|--|--|--|--|--|--|
| Tensile Yield Strength | 729 | klb | | | | | | |
| Compression Resistance | 729 | klb | | | | | | |
| Internal Yield Pressure | 14,360 | psi | | | | | | |
| Collapse Resistance | 12,080 | psi | | | | | | |
| Max. Structural Bending | 104 | °/100ft | | | | | | |
| Max. Bending with ISO/API Sealability | 30 | °/100ft | | | | | | |
| Max. Load on Coupling Face | 290 | klb | | | | | | |
| * 87.5% RBW | | | | | | | | |

| TORQUE VALUES | | |
|------------------------------------|--------|-------|
| Min. Make-up torque | 23,000 | ft.lb |
| Opt. Make-up torque | 24,000 | ft.lb |
| Max. Make-up torque | 25,000 | ft.lb |
| Max. Torque with Sealability (MTS) | 39,200 | ft.lb |
| Min. Locked Flank Torque | 1,200 | ft.lb |
| Max. Locked Flank Torque | 16,800 | ft.lb |



VAM® SPRINT-TC is a threaded and coupled connection innovatively designed for extreme shale applications. Its high tension rating and ultra high torque capacity make it ideal to run a fill string length as production casing in shale wells with extended horizontal sections.



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

canada@vamfieldservice.com usa@vamfieldservice.com mexico@vamfieldservice.com brazil@vamfieldservice.com uk@vamfieldservice.com dubai@vamfieldservice.com nigeria@vamfieldservice.com angola@vamfieldservice.com china@vamfieldservice.com baku@vamfieldservice.com singapore@vamfieldservice.com australia@vamfieldservice.com

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



| Metal <mark>O</mark> ne | MO-FXL *1 Pipe Body: BMP P110HSC Min95%WT Connection Data | | CDS# | P110H MinYS1 Min95% | 25ksi | | |
|----------------------------|---|---|--------------------------------------|----------------------------------|-----------------|--|--|
| Metal <mark>O</mark> ne | Min95%WT | | | Min95% | | | |
| | | a Sheet | Duti | | 6WΤ | | |
| | Connection Data | a Sheet | D | | | | |
| | Connection Data Sheet Date 20-Se | | | | | | |
| | Geometry | <u>ll</u> | <u>S.I.</u> | | | | |
| | Pipe Body | | | B () () () () () | | | |
| | Grade * | P110HSCY | | P110HSCY | | | |
| | Pipe OD (D) | 7 5/8 | in | 193.68 | mm | | |
| MO-FXL | Weight | 29.70 | lb/ft | 44.25 | kg/m | | |
| | Actual weight | 29.04 | | 43.26 | kg/m | | |
| | Wall Thickness (t) | 0.375 | in | 9.53 | mm | | |
| | Pipe ID(d) | 6.875 | in | 174.63 | mm | | |
| | Pipe body cross section | 8.541 | in ² | 5,510 | mm ² | | |
| | Drift Dia. | 6.750 | in | 171.45 | mm | | |
| | Connection | | | | | | |
| $\uparrow \leftrightarrow$ | Box OD (W) | 7.625 | in | 193.68 | mm | | |
| K | PIN ID | 6.875 | in | 174.63 | mm | | |
| Box | Make up Loss | 4.219 | in | 107.16 | mm | | |
| critical | Box Critical Area | 5.714 | in ² | 3686 | mm ² | | |
| area | Joint load efficiency | 70 | % | 70 | % | | |
| | Thread Taper | | | | | | |
| | Number of Threads | 1 | 1 / 10 (1.2" per ft) 5 TPI | | | | |
| | Performance Properties f | | | 4.740 | | | |
| Pin | <mark>S.M.Y.S. *1</mark> M.I.Y.P. *1 | 1,068 | kips | 4,749 | kN MPa | | |
| critical area | Collapse Strength *1 | 11,680 7,200 | psi | 80.55 49.66 | MPa MPa | | |
| | Note S.M.Y.S.= Specifi | | D Strop | | | | |
| | M.I.Y.P. = Minim * BMP P110HSCY: MinYS125ks Performance Data Sheet: 7.625 | um Internal Yield i, Min95%WT, Col 5" 29.7lb/ft P110H | d Pressur llapse Stre SCY Rev3 | e of Pipe body ength 7,200psi | - | | |
| | Performance Properties | for Connectio | | | | | |
| | Tensile Yield load | 747 kips | | of S.M.Y.S.) | | | |
| | Min. Compression Yield | 747 kips | | of S.M.Y.S.) | | | |
| | Internal Pressure | 9,340 psi | | of M.I.Y.P.) | | | |
| | External Pressure | | | of Collapse St | rength | | |
| | Max. DLS (deg. /100ft) | | 3 | 0 | | | |
| | Recommended Torque | | <u></u> | 04.000 | NI | | |
| | Min. | 15,500 17,200 | ft-lb | 21,000 | N-m | | |
| | Opti. Max. | 17,200 | ft-lb | 23,300 | N-m | | |
| | | 18,900 23,600 | ft-lb | 25,600 | N-m | | |
| | Operational Max | 23600 | ft-lb | 32,000 | N-m | | |
| | Operational Max. | | | | | | |
| | Operational Max. Note : Operational Max. to | | ied for hig | | on | | |
| gal Notice | | orque can be appl | | h torque applicati | | | |

Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application

The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to <u>http://www.mtlo.co.jp/mo-con/_images/top/WebsiteTerms_Active_20333287_1.pdf</u> the contents of which are incorporated by reference into this Connection Data Sheet.

| DISTRICT I 1625 N. FRENCH DR., F Phone: (575) 393-6161 Fr DISTRICT II 811 S. FIRST ST., AJ Phone: (575) 746-1283 DISTRICT III 1000 RIO FRAZOS FI | ax: (575) 393-0 RTESIA, NM Fax: (575) 744 D., AZTEC, N | 88210 8-9720 M 87410 | DIL C | ONS 1220 s | & Natu ERV. OUTH | ural H ATIC ST. Fl | v Mexico Resources De DN DIVIS RANCIS DR. xico 87505 | - | Revised Au Submit one copy t | Form C–102 ugust 1, 2011 o appropriate .ct Office |
|--|---|----------------------------|---|---------------|--|--|--|---|---|--|
| Phone: (505) 334–617 DISTRICT IV 1220 S. ST. FRANCIS DI Phone: (505) 476–346 | | NM 87505 476-3462 | | | | | | | □ AMEND | ED REPORT |
| | | | | | N AND | ACREA | GE DEDICATI | | | |
| API N | Number | | | Pool Code | | | | Pool Name | | |
| 30-015-55056 | | | 9 | 6641 | | | ADUCA; BONE | SPRING | | |
| Property C | ode | | | MIT | - | erty Nam | ED COM | | Well Nun 30 | |
| 335888 | | | | MU. | | | | | | |
| ogrid n₀ 6137 | • | | DEVON | ENERG | | ator Nam DUCTI | ON COMPANY | , L.P. | Elevation 3419 | |
| | | | | | Surfa | ce Loca | ation | | | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet fr | om the | North/South line | Feet from the | East/West line | County |
| D | 11 | 25-5 | 31-E | | 45 | 50 | NORTH | 484 | WEST | EDDY |
| | | | Pottom | Holo Io | | | rent From Sur | fa.c.a | | |
| | | m 1. | | | | | | | T (/W ()) | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet fr | | North/South line | Feet from the | East/West line | County |
| D | 23 | 25-5 | 31-E | | | 99 | NORTH | 400 | WEST | EDDY |
| Dedicated Acres | Joint o | r Infill Co | onsolidation | Code 0 | rder No. | | | | | |
| 720 | | | | | | | | | | |
| NO ALLO | WABLE W | | | | | | UNTIL ALL INTER APPROVED BY T | | EEN CONSOLIDA | ATED |
| EL:3419.1' GEDBETIC CDRPNIATES NAD 83 NMSP EAST SURFACE LOCATION N:419143.80 E:720118.52 LAT:32.150986 LDN:103.755654 KICK DF PDINT CALLS:49 FNL 401 FWL N: 419545 E: 720032 LAT:32.1520 LAT:32.1520 LAT:32.151951 LAT:32.151951 LAT:32.151951 LDN:103.75560 EIRST TAKE POINT(PPP 100' FNL 400' FWL SEC N:419494.44 E:720032.47 LAT:32.151951 LDN:103.755926 LAST TAKE POINT 1219' FNL 400' FWL SEC N:407702.18 E:720059.84 LAT:32.19756 LDN:103.756040 BOTTOM OF HOLE N:407702.18 E:720050.80 LAT:32.19536 LDN:103.756041 BOTTOM OF HOLE N:407702.18 E:720050.80 LAT:32.19356 LDN:103.756042 BOTTOM OF HOLE N:407702.18 E:720050.80 LAT:32.19356 LDN:103.756042 BOTTOM OF HOLE N:4017702.18 E:720050.80 LAT:32.19336 LDN:103.756042 BOTTOM OF HOLE N:4119577.37 E:719631.8 E:72050.80 LAT:32.19393 LDN:103.75602 | | | H FTP N 0072756" W P N 0072756" W O N 0007554" E N N 0000549" E M N 00111'35" W L 2659,71" W P N 0072756" W O N 0007554" E N N 0000549" E M N 00111'35" W L 2649,31" E M N 00111'35" W L | | 11 T25S-R31E 125S-R31E 1252-46' 14 T25S-R31E 14 T25S-R31E 14 T25S-R31E 14 T25S-R31E 14 T25S-R31E 14 T25S-R31E | | S 00713'42" E D S 00722'50" E E S 00715'47" E G S 00712'41" | I hereby herein is true my knowledge organization e or unleased m including the or has a right location pursue owner of such or to a volumi compulsory po by the division Signature Chelsey Gi Printed Nam Chelsey.gree E-mail Addree SURVEY(I hereby shown on this notes of actua under my sup true and correct | Dreen reen ne en@dvn.com ss DR CERTIFICAT certify that the well plat was plotted fro- la surveys made by 1 certify that the well plat was plotted fro- plat was plotted fro- ne other of Survey Seal of Professiona R. DEHOL | ormation e best of t this g interest e land le location t this interest, nt or a re entered 20/24 tte FION U location par field me or e same is y belief. |
| H=N:406364.11 E:724989.3 I=N:403723.61 E:724993.3 J=N:403715.48 E:722335.8 K=N:403707.33 E:719678.0 H=N:40360.85 E:719658.6 M=N:409003.26 E:719658.6 O=N:414305.28 E:719664.7 P=N:416942.70 E:719647.4 P=N:416942.70 E:719647.4 P=N:41699.01 E:7292330.5 P=N:41699.01 E:7292330.5 P=N:41694.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164.7 P=N:4164. | 33 80 91 53 72 56 76 42 | | N 0011720" W 2653.56' | | м 06348 : : : : : : : : : ; ; ; ; ; ; ; ; ; ; | | S 00004'38" E E 1 72640-48" E | Certificate N | lo. 23261 Albert | 4/10/24 R. DeHoyos BY: CM |

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| Intent | х |
|--------|---|
| | |

API #

| 30-015-55056 | | |
|---|--------------------|-------------|
| Operator Name: | Property Name: | Well Number |
| DEVON ENERGY PRODUCTION COMPANY, LP. | MULE 11-23 FED COM | 301H |

Kick Off Point (KOP)

| UL | Section | Township | Range | Lot | Feet | From N/S | Feet | From E/W | County |
|--------|---------|----------|-------|-----|-----------|----------|------|----------|--------|
| D | 11 | 25S | 31E | | 49 | FNL | 401 | FWL | EDDY |
| Latitu | de | | | | Longitude | | | | NAD |
| 32. | 1520 | | | | 103.7560 | | | | 83 |

First Take Point (FTP)

| UL D | Section | Township 25-S | Range 31-E | Lot | Feet 100 | From N/S | Feet 400 | From E/W | EDDY |
|----------------------|-----------------------|------------------|----------------------|-----|-------------------------|----------|-------------|----------|-----------|
| Latitu 32. | ^{de} 1519 | 51 | | | Longitude 103.75 | 5926 | | | NAD 83 |

Last Take Point (LTP)

| UL D | Section 23 | Township 25-S | Range 31-E | Lot | Feet 1219 | From N/S | Feet 400 | From E/W | County EDDY |
|-----------------------|------------|---------------|----------------------|----------|------------------------|----------|--------------------|----------|----------------|
| Latitude 32.119756 | | | | Longitud | ^{1e} 75604 | C | NAD 83 | | |

Is this well the defining well for the Horizontal Spacing Unit?

Is this well an infill well?

| _ | | _ |
|---|---|---|
| | | |
| | | |
| | Y | |

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

| API # | | |
|-------------------------------------|--------------------|-------------|
| Operator Name: | Property Name: | Well Number |
| DEVON ENERGY PRODUCTION COMPANY, LP | MULE 11-14 FED COM | 522H |

KZ 06/29/2018

SěAH 9.625" 40# .395" J-55

Dimensions (Nominal)

| Outside Diameter Wall | 9.625 0.395 | in. in. |
|--------------------------|----------------|------------|
| Inside Diameter | 8.835 | in. |
| Drift | 8.750 | in. |
| Weight, T&C | 40.000 | lbs./ft. |
| Weight, PE | 38.970 | lbs./ft. |

Performance Properties

| Collapse, PE | 2570 | psi |
|--|------|-----------|
| Internal Yield Pressure at Minimum Yield | | |
| PE | 3950 | psi |
| LTC | 3950 | psi |
| BTC | 3950 | psi |
| Yield Strength, Pipe Body | 630 | 1000 lbs. |
| Joint Strength | | |
| STC | 452 | 1000 lbs. |
| LTC | 520 | 1000 lbs. |
| втс | 714 | 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.

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed 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, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

1. Well Control Response:

1. Primary barrier remains fluid

2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:

- a) Annular first
- b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
- c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



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.

1. Geologic Formations

| TVD of target | 10475 | Pilot hole depth | N/A |
|---------------|-------|------------------------------|-----|
| MD at TD: | 22113 | Deepest expected fresh water | |

Basin

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

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

| | | Wt | | | | Interval | Casing | Interval |
|-----------|-----------|-------|----------|--------------|--------------|----------|---------------|----------|
| Hole Size | Csg. Size | (PPF) | Grade | Conn | From (MD) | To (MD) | From (TVD) | To (TVD) |
| 13 1/2 | 9 5/8 | 40 | J-55 | BTC | 0 | 690 | 0 | 690 |
| 8 3/4 | 7 5/8 | 29.7 | P110HSCY | MOFXL | 0 | 9843 | 0 | 9843 |
| 6 3/4 | 5 1/2 | 20 | P110 | Sprint-TC SC | 0 | 22113 | 0 | 10475 |

2. Casing Program (Primary Design)

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

3. Cementing Program (Primary Design)

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 | тос | Wt. ppg | Yld (ft3/sack) | Slurry Description |
|------------|-------|------|------------|-------------------|---|
| Surface | 370 | Surf | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int 1 | 375 | Surf | 13.0 | 2.3 | 2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives |
| IIII I | 291 | 6717 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 62 | 7943 | 9 | 3.27 | Lead: Class H /C + additives |
| Froduction | 776 | 9943 | 13.2 | 1.44 | Tail: Class H / C + additives |

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

| BOP installed and tested before drilling which hole? | Size? | Min. Required WP | Туре | | ~ | Tested to: | | | | | | | |
|---|--------------------|---------------------|--------------|---------------|---------------|-------------------------------|------|------|------|------|----------|--|--|
| | | | An | nular | X | 50% of rated working pressure | | | | | | | |
| Int 1 | 13-5/8" | 5M | | d Ram | Х | | | | | | | | |
| Int I | 15-5/6 | 5111 | Pipe | e Ram | | 5M | | | | | | | |
| | | | Doub | le Ram | Х | 5111 | | | | | | | |
| | | | Other* | | | | | | | | | | |
| | | | Annul | ar (5M) | Х | 50% of rated working | | | | | | | |
| | Production 13-5/8" | 5M | | Annular (5M) | | pressure | | | | | | | |
| Production | | | Blind Ram | | Х | | | | | | | | |
| Tioduction | | 15-5/0 | 15-5/0 | 15-5/0 | 5101 | 5101 | 5111 | 5111 | 5101 | 5101 | Pipe Ram | | |
| | | | Double Ram | | Х | 5111 | | | | | | | |
| | | | Other* | | | | | | | | | | |
| | | | Annul | lar (5M) | | | | | | | | | |
| | | | Blind Ram | | | | | | | | | | |
| | | | Pipe Ram | | | | | | | | | | |
| | | | Double Ram | | | 1 | | | | | | | |
| | | | Other* | | | 1 | | | | | | | |
| N A variance is requested for | the use of a | a diverter on the s | urface casin | g. See attach | ed for schema | atic. | | | | | | | |
| Y A variance is requested to r | | | | | | | | | | | | | |

4. Pressure Control Equipment (Three String Design)

5. Mud Program (Three String Design)

| Section | Туре | 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, C | Logging, Coring and Testing | | | | | | | |
|------------|---|--|--|--|--|--|--|--|
| | Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the | | | | | | | |
| Х | Completion Rpeort and sbumitted 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. | | | | | | | |

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

7. Drilling Conditions

| Condition | Specfiy what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 5719 |
| Abnormal temperature | No |

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

Hydrogren 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 Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

| Ν | H2S is present |
|---|--------------------|
| Y | H2S plan attached. |

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.

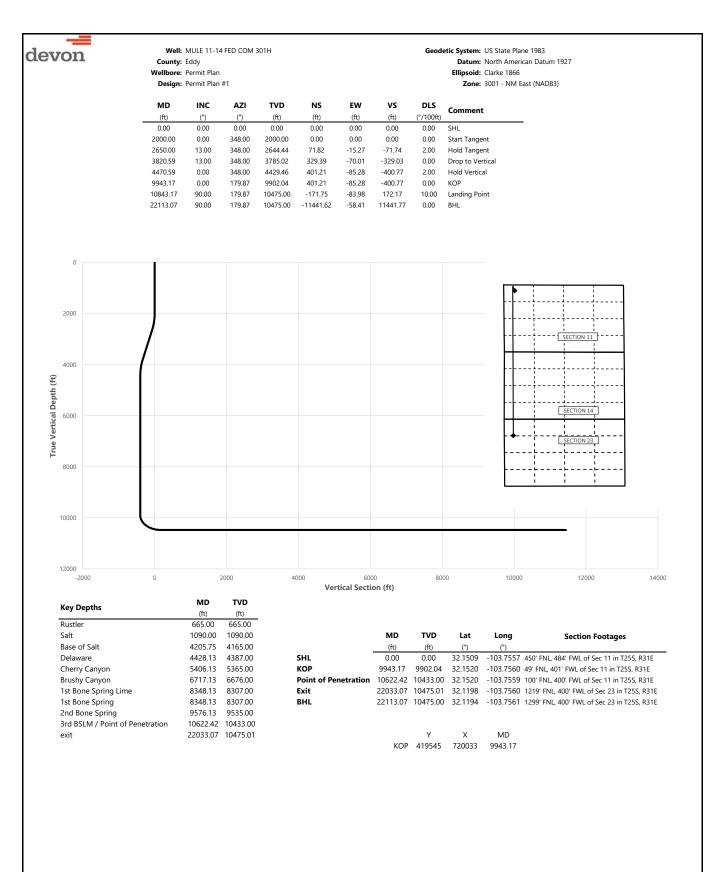
NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

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 (OnShore Order 2, 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 nippled 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



| County Edy United Section 1000 County Edy Design Permit Plan 3 County Edy Design Permit Plan 3 <thcounty edy<br="">Design Permit Plan 3 County Edy Desig</thcounty> | | | 14/-11 | MILLE 11 1 | | 014 | | | | Geodetic System: LIS State Plane 1092 |
|---|-------|---------|--------|------------|-------------|--------|--------|---------|------|---------------------------------------|
| Province Prime Prima Prime Prime Prima Prima Prima Prima Prima Prima Prim | levon | | | | 4 FED COM 3 | UTH | | | | Geodetic System: US State Plane 1983 |
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| 4300.00 3.41 348.00 4258.97 396.24 -84.22 -395.81 2.00 4400.00 1.41 348.00 4358.88 400.36 -85.10 -399.92 2.00 4428.13 0.85 348.00 4387.00 400.90 -85.21 -400.46 2.00 Delaware 4470.59 0.00 348.00 4429.46 401.21 -85.28 -400.77 0.00 4500.00 0.00 179.87 4458.87 401.21 -85.28 -400.77 0.00 4600.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4700.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4800.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4900.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 500.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 500.00 0.00 179.87 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Para of Calt</td> | | | | | | | | | | Para of Calt |
| 4400.00 1.41 348.00 4358.88 400.36 -85.10 -399.92 2.00 4428.13 0.85 348.00 4387.00 400.90 -85.21 -400.46 2.00 Delaware 4470.59 0.00 348.00 4429.46 401.21 -85.28 -400.77 2.00 Hold Vertical 4500.00 0.00 179.87 4458.87 401.21 -85.28 -400.77 0.00 4600.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4700.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4800.00 0.00 179.87 4758.87 401.21 -85.28 -400.77 0.00 4900.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 5000.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 5000.00 0.00 179.87 558.87 401.21 -85.28 -400.77 0.00 5000.00 | | | | | | | | | | Dase of Sall |
| 4428.13 0.85 348.00 4387.00 400.90 -85.21 -400.46 2.00 Delaware 4470.59 0.00 348.00 4429.46 401.21 -85.28 -400.77 2.00 Hold Vertical 4500.00 0.00 179.87 4458.87 401.21 -85.28 -400.77 0.00 4600.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4700.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4800.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4900.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 5000.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 5100.00 0.00 179.87 558.87 401.21 -85.28 -400.77 0.00 5200.00 0.00 179.87 558.87 401.21 -85.28 -400.77 0.00 5406.13 0 | | | | | | | | | | |
| 4470.59 0.00 348.00 4429.46 401.21 -85.28 -400.77 2.00 Hold Vertical 4500.00 0.00 179.87 4458.87 401.21 -85.28 -400.77 0.00 4600.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4700.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4800.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4900.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 5000.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 5100.00 0.00 179.87 4958.87 401.21 -85.28 -400.77 0.00 5100.00 0.00 179.87 5958.87 401.21 -85.28 -400.77 0.00 5200.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5300.00 0.00 179 | | | | | | | | | | Delaware |
| 4600.00 0.00 179.87 4558.87 401.21 -85.28 -400.77 0.00 4700.00 0.00 179.87 4658.87 401.21 -85.28 -400.77 0.00 4800.00 0.00 179.87 4758.87 401.21 -85.28 -400.77 0.00 4900.00 0.00 179.87 4758.87 401.21 -85.28 -400.77 0.00 5000.00 0.00 179.87 4858.87 401.21 -85.28 -400.77 0.00 5000.00 0.00 179.87 4958.87 401.21 -85.28 -400.77 0.00 5100.00 0.00 179.87 5058.87 401.21 -85.28 -400.77 0.00 5200.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5300.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5400.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5365.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Hold Vertical</td> | | | | | | | | | | Hold Vertical |
| 4700.00 0.00 179.87 4658.87 401.21 -85.28 -400.77 0.00 4800.00 0.00 179.87 4758.87 401.21 -85.28 -400.77 0.00 4900.00 0.00 179.87 4758.87 401.21 -85.28 -400.77 0.00 5000.00 0.00 179.87 4858.87 401.21 -85.28 -400.77 0.00 5100.00 0.00 179.87 4958.87 401.21 -85.28 -400.77 0.00 5200.00 0.00 179.87 5058.87 401.21 -85.28 -400.77 0.00 5200.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5300.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5400.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5365.00 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5458.87 <td></td> <td>4500.00</td> <td>0.00</td> <td>179.87</td> <td>4458.87</td> <td>401.21</td> <td>-85.28</td> <td>-400.77</td> <td>0.00</td> <td></td> | | 4500.00 | 0.00 | 179.87 | 4458.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| 4800.00 0.00 179.87 4758.87 401.21 -85.28 -400.77 0.00 4900.00 0.00 179.87 4858.87 401.21 -85.28 -400.77 0.00 5000.00 0.00 179.87 4958.87 401.21 -85.28 -400.77 0.00 5100.00 0.00 179.87 5058.87 401.21 -85.28 -400.77 0.00 5200.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5200.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5300.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5400.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5365.00 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5365.00 <td></td> | | | | | | | | | | |
| 4900.00 0.00 179.87 4858.87 401.21 -85.28 -400.77 0.00 5000.00 0.00 179.87 4958.87 401.21 -85.28 -400.77 0.00 5100.00 0.00 179.87 5058.87 401.21 -85.28 -400.77 0.00 5200.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5300.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5400.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5458.00 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| 5000.00 0.00 179.87 4958.87 401.21 -85.28 -400.77 0.00 5100.00 0.00 179.87 5058.87 401.21 -85.28 -400.77 0.00 5200.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5300.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5300.00 0.00 179.87 5258.87 401.21 -85.28 -400.77 0.00 5400.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5365.00 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| 5100.00 0.00 179.87 5058.87 401.21 -85.28 -400.77 0.00 5200.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5300.00 0.00 179.87 5258.87 401.21 -85.28 -400.77 0.00 5400.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5365.00 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5365.00 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| 5200.00 0.00 179.87 5158.87 401.21 -85.28 -400.77 0.00 5300.00 0.00 179.87 5258.87 401.21 -85.28 -400.77 0.00 5400.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5400.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5365.00 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| 5300.00 0.00 179.87 5258.87 401.21 -85.28 -400.77 0.00 5400.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5365.00 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5365.00 401.21 -85.28 -400.77 0.00 5500.00 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| 5400.00 0.00 179.87 5358.87 401.21 -85.28 -400.77 0.00 5406.13 0.00 179.87 5365.00 401.21 -85.28 -400.77 0.00 Cherry Canyon 5500.00 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| 5500.00 0.00 179.87 5458.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| | | | | | | | | | | Cherry Canyon |
| | | | | | | | | | | |
| | | 5600.00 | 0.00 | 179.87 | 5558.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| 5700.00 0.00 179.87 5658.87 401.21 -85.28 -400.77 0.00 5800.00 0.00 179.87 5758.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| 5900.00 0.00 179.87 5758.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| 6000.00 0.00 179.87 5958.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| 6100.00 0.00 179.87 6058.87 401.21 -85.28 -400.77 0.00 | | | | | | | | | | |
| | | | | | | | | | | |

| = | | Walls | MULE 11 1 | 4 FED COM 3 | 0111 | | | | Geodetic System: LIS State Diano 1092 |
|-------|----------------------|----------------|------------------|----------------------|----------------------|------------------|--------------------|----------------|--|
| devon | | County: | | 4 FED COIVI 5 | | | | | Geodetic System: US State Plane 1983 Datum: North American Datum 1927 |
| | | - | Permit Plar | 1 | | | | | Ellipsoid: Clarke 1866 |
| | | Design: | Permit Plar | n #1 | | | | | Zone: 3001 - NM East (NAD83) |
| | MD | INC | AZI | TVD | NS | EW | vs | DLS | |
| | (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (°/100ft) | Comment |
| - | 6200.00 | 0.00 | 179.87 | 6158.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6300.00 | 0.00 | 179.87 | 6258.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6400.00 6500.00 | 0.00 0.00 | 179.87 179.87 | 6358.87 6458.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 6600.00 | 0.00 | 179.87 | 6558.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6700.00 | 0.00 | 179.87 | 6658.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 6717.13 | 0.00 | 179.87 | 6676.00 | 401.21 | -85.28 | -400.77 | 0.00 | Brushy Canyon |
| | 6800.00 6900.00 | 0.00 0.00 | 179.87 179.87 | 6758.87 6858.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 7000.00 | 0.00 | 179.87 | 6958.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7100.00 | 0.00 | 179.87 | 7058.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7200.00 | 0.00 | 179.87 | 7158.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7300.00 | 0.00 | 179.87 | 7258.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7400.00 7500.00 | 0.00 0.00 | 179.87 179.87 | 7358.87 7458.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 7600.00 | 0.00 | 179.87 | 7558.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7700.00 | 0.00 | 179.87 | 7658.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7800.00 | 0.00 | 179.87 | 7758.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 7900.00 8000.00 | 0.00 0.00 | 179.87 179.87 | 7858.87 7958.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 8100.00 | 0.00 | 179.87 | 8058.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8200.00 | 0.00 | 179.87 | 8158.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8300.00 | 0.00 | 179.87 | 8258.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8348.13 8400.00 | 0.00 0.00 | 179.87 179.87 | 8307.00 8358.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | 1st Bone Spring Lime |
| | 8500.00 | 0.00 | 179.87 | 8458.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8600.00 | 0.00 | 179.87 | 8558.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8700.00 | 0.00 | 179.87 | 8658.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 8800.00 8900.00 | 0.00 0.00 | 179.87 179.87 | 8758.87 8858.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 9000.00 | 0.00 | 179.87 | 8958.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9100.00 | 0.00 | 179.87 | 9058.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9200.00 | 0.00 | 179.87 | 9158.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9300.00 9373.13 | 0.00 0.00 | 179.87 179.87 | 9258.87 9332.00 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | 1st Bone Spring |
| | 9400.00 | 0.00 | 179.87 | 9358.87 | 401.21 | -85.28 | -400.77 | 0.00 | ist bone spring |
| | 9500.00 | 0.00 | 179.87 | 9458.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9576.13 | 0.00 | 179.87 | 9535.00 | 401.21 | -85.28 | -400.77 | 0.00 | 2nd Bone Spring |
| | 9600.00 9700.00 | 0.00 0.00 | 179.87 179.87 | 9558.87 9658.87 | 401.21 401.21 | -85.28 -85.28 | -400.77 -400.77 | 0.00 0.00 | |
| | 9800.00 | 0.00 | 179.87 | 9758.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9900.00 | 0.00 | 179.87 | 9858.87 | 401.21 | -85.28 | -400.77 | 0.00 | |
| | 9943.17 | 0.00 | 179.87 | 9902.04 | 401.21 | -85.28 | -400.77 | 0.00 | КОР |
| | 10000.00 10100.00 | 5.68 15.68 | 179.87 179.87 | 9958.78 10056.92 | 398.39 379.88 | -85.27 -85.23 | -397.95 -379.44 | 10.00 10.00 | |
| | 10200.00 | 25.68 | 179.87 | 10150.36 | 344.60 | -85.15 | -344.17 | 10.00 | |
| | 10300.00 | 35.68 | 179.87 | 10236.25 | 293.64 | -85.04 | -293.20 | 10.00 | |
| | 10400.00 | 45.68 | 179.87 | 10311.99 | 228.54 | -84.89 | -228.10 | 10.00 | |
| | 10500.00 10600.00 | 55.68 65.68 | 179.87 179.87 | 10375.27 10424.17 | 151.27 64.19 | -84.71 -84.51 | -150.83 -63.76 | 10.00 10.00 | |
| | 10622.42 | 67.93 | 179.87 | 10433.00 | 43.58 | -84.47 | -43.15 | 10.00 | 3rd BSLM / Point of Penetration |
| | 10700.00 | 75.68 | 179.87 | 10457.21 | -30.06 | -84.30 | 30.49 | 10.00 | |
| | 10800.00 | 85.68 | 179.87 | 10473.37 | -128.62 | -84.08 | 129.05 | 10.00 | Landing Point |
| | 10843.17 10900.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -171.75 -228.58 | -83.98 -83.85 | 172.17 229.00 | 10.00 0.00 | Landing Point |
| | 11000.00 | 90.00 | 179.87 | 10475.00 | -328.58 | -83.62 | 329.00 | 0.00 | |
| | 11100.00 | 90.00 | 179.87 | 10475.00 | -428.58 | -83.40 | 429.00 | 0.00 | |
| | 11200.00 | 90.00 | 179.87 | 10475.00 | -528.58 | -83.17 | 528.99 | 0.00 | |
| | 11300.00 11400.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -628.58 -728.58 | -82.94 -82.71 | 628.99 728.99 | 0.00 0.00 | |
| | 11500.00 | 90.00 | 179.87 | 10475.00 | -828.58 | -82.49 | 828.99 | 0.00 | |
| | 11600.00 | 90.00 | 179.87 | 10475.00 | -928.58 | -82.26 | 928.98 | 0.00 | |
| | 11700.00 | 90.00 | 179.87 | 10475.00 | -1028.57 | -82.03 | 1028.98 | 0.00 | |
| | 11800.00 11900.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -1128.57 -1228.57 | -81.81 -81.58 | 1128.98 1228.98 | 0.00 0.00 | |
| | 12000.00 | 90.00 90.00 | 179.87 | 10475.00 | -1228.57 | -81.35 | 1328.98 | 0.00 | |
| | 12100.00 | 90.00 | 179.87 | | -1428.57 | -81.12 | 1428.97 | 0.00 | |
| | 12200.00 | 90.00 | 179.87 | 10475.00 | -1528.57 | -80.90 | 1528.97 | 0.00 | |
| | 12300.00 12400.00 | 90.00 90.00 | 179.87 179.87 | 10475.00 10475.00 | -1628.57 -1728 57 | -80.67 -80.44 | 1628.96 1728.96 | 0.00 0.00 | |
| | 12700.00 | 50.00 | 179.07 | 10-13.00 | 1720.37 | 00.44 | 1720.30 | 0.00 | |
| | | | | | | | | | |

| Mull: Mull: Mull: 11-14 FED COM 301H Geodetic System: US State Plane 1983 County: Eddy Eddy Datum: North American Datum Wellbore: Permit Plan Ellipsoid: Clarke 1866 Design: Permit Plan #1 Series Comment Ellipsoid: Clarke 1866 MD INC AZI TVD NS EW VS DLS Comment (ft) (°) (°) (ft) < | |
|---|----|
| Mol perint Permit Plan TVD NS EW VS DLS Comment (ft) (°) (°) (ft) (ft) (ft) (ft) (ft) Comment 12500.00 90.00 179.87 10475.00 -1828.57 -80.22 1828.96 0.00 12600.00 90.00 179.87 10475.00 -1928.57 -79.99 1928.96 0.00 12700.00 90.00 179.87 10475.00 -2028.57 -79.53 2128.95 0.00 12800.00 90.00 179.87 10475.00 -2228.57 -79.31 2228.95 0.00 12800.00 90.00 179.87 10475.00 -2228.57 -79.83 2128.95 0.00 12800.00 90.00 179.87 10475.00 -2228.57 -79.83 2328.95 0.00 13000.00 90.00 179.87 10475.00 -2228.57 -78.63 2528.94 0.00 13200.00 90.00 179.87 10475.00 -2628.57 -78.63 2528.94 0.00 13300.00 90.00 | |
| MD INC AZI TVD NS EW VS DLS Comment (ft) (°) (°) (ft) | 3) |
| (ft) (") (ft) | |
| (ft) (°) (ft) | |
| 12500.0090.00179.8710475.00-1828.57-80.221828.960.0012600.0090.00179.8710475.00-1928.57-79.991928.960.0012700.0090.00179.8710475.00-2028.57-79.762028.950.0012800.0090.00179.8710475.00-2128.57-79.532128.950.0012900.0090.00179.8710475.00-2228.57-79.312228.950.0013000.0090.00179.8710475.00-2228.57-79.082328.950.0013100.0090.00179.8710475.00-2428.57-78.852428.940.0013200.0090.00179.8710475.00-2628.57-78.632528.940.0013300.0090.00179.8710475.00-2628.57-78.402628.940.0013400.0090.00179.8710475.00-2628.57-78.402628.940.00 | |
| 12600.0090.00179.8710475.00-1928.57-79.991928.960.0012700.0090.00179.8710475.00-2028.57-79.762028.950.0012800.0090.00179.8710475.00-2128.57-79.312128.950.0012900.0090.00179.8710475.00-2228.57-79.312228.950.0013000.0090.00179.8710475.00-2328.57-79.852428.940.0013100.0090.00179.8710475.00-2428.57-78.632528.940.0013200.0090.00179.8710475.00-2628.57-78.402628.940.0013300.0090.00179.8710475.00-2628.57-78.402628.940.0013400.0090.00179.8710475.00-2728.57-78.172728.930.00 | |
| 12800.0090.00179.8710475.00-2128.57-79.532128.950.0012900.0090.00179.8710475.00-2228.57-79.312228.950.0013000.0090.00179.8710475.00-2328.57-79.082328.950.0013100.0090.00179.8710475.00-2428.57-78.852428.940.0013200.0090.00179.8710475.00-2528.57-78.632528.940.0013300.0090.00179.8710475.00-2628.57-78.102628.940.0013400.0090.00179.8710475.00-2728.57-78.172728.930.00 | |
| 12900.0090.00179.8710475.00-2228.57-79.312228.950.0013000.0090.00179.8710475.00-2328.57-79.082328.950.0013100.0090.00179.8710475.00-2428.57-78.852428.940.0013200.0090.00179.8710475.00-2528.57-78.632528.940.0013300.0090.00179.8710475.00-2628.57-78.402628.940.0013400.0090.00179.8710475.00-2728.57-78.172728.930.00 | |
| 13000.0090.00179.8710475.00-2328.57-79.082328.950.0013100.0090.00179.8710475.00-2428.57-78.852428.940.0013200.0090.00179.8710475.00-2528.57-78.632528.940.0013300.0090.00179.8710475.00-2628.57-78.402628.940.0013400.0090.00179.8710475.00-2728.57-78.172728.930.00 | |
| 13100.0090.00179.8710475.00-2428.57-78.852428.940.0013200.0090.00179.8710475.00-2528.57-78.632528.940.0013300.0090.00179.8710475.00-2628.57-78.402628.940.0013400.0090.00179.8710475.00-2728.57-78.172728.930.00 | |
| 13200.00 90.00 179.87 10475.00 -2528.57 -78.63 2528.94 0.00 13300.00 90.00 179.87 10475.00 -2628.57 -78.40 2628.94 0.00 13400.00 90.00 179.87 10475.00 -2728.57 -78.17 2728.93 0.00 | |
| 13400.00 90.00 179.87 10475.00 -2728.57 -78.17 2728.93 0.00 | |
| | |
| | |
| 13500.00 90.00 179.87 10475.00 -2828.57 -77.94 2828.93 0.00 13600.00 90.00 179.87 10475.00 -2928.57 -77.72 2928.93 0.00 | |
| 13700.00 90.00 179.87 10475.00 -2928.57 -77.49 3028.93 0.00 | |
| 13800.00 90.00 179.87 10475.00 -3128.57 -77.26 3128.92 0.00 | |
| 13900.00 90.00 179.87 10475.00 -3228.57 -77.04 3228.92 0.00 | |
| 14000.00 90.00 179.87 10475.00 -3328.57 -76.81 3328.92 0.00 | |
| 14100.00 90.00 179.87 10475.00 -3428.57 -76.58 3428.92 0.00 14200.00 90.00 179.87 10475.00 -3528.57 -76.35 3528.91 0.00 | |
| 14200.00 90.00 179.87 10475.00 -3528.57 -76.13 3528.91 0.00 14300.00 90.00 179.87 10475.00 -3628.57 -76.13 3628.91 0.00 | |
| 14400.00 90.00 179.87 10475.00 -3728.57 -75.90 3728.91 0.00 | |
| 14500.00 90.00 179.87 10475.00 -3828.57 -75.67 3828.90 0.00 | |
| 14600.00 90.00 179.87 10475.00 -3928.57 -75.45 3928.90 0.00 | |
| 14700.00 90.00 179.87 10475.01 -4028.57 -75.22 4028.90 0.00 14800.00 90.00 179.87 10475.01 -4128.57 -74.99 4128.90 0.00 | |
| 14900.00 90.00 179.87 10475.01 4428.57 -74.76 4228.89 0.00 | |
| 15000.00 90.00 179.87 10475.01 -4328.57 -74.54 4328.89 0.00 | |
| 15100.00 90.00 179.87 10475.01 -4428.57 -74.31 4428.89 0.00 | |
| 15200.00 90.00 179.87 10475.01 -4528.57 -74.08 4528.89 0.00 | |
| 15300.00 90.00 179.87 10475.01 -4628.57 -73.86 4628.88 0.00 15400.00 90.00 179.87 10475.01 -4728.57 -73.63 4728.88 0.00 | |
| 15500.00 90.00 179.87 10475.01 -4828.57 -73.40 4828.88 0.00 | |
| 15600.00 90.00 179.87 10475.01 -4928.56 -73.17 4928.87 0.00 | |
| 15700.00 90.00 179.87 10475.01 -5028.56 -72.95 5028.87 0.00 | |
| 15800.00 90.00 179.87 10475.01 -5128.56 -72.72 5128.87 0.00 15900.00 90.00 179.87 10475.01 -5228.56 -72.49 5228.87 0.00 | |
| 16000.00 90.00 179.87 10475.01 -5328.56 -72.27 5328.86 0.00 | |
| 16100.00 90.00 179.87 10475.01 -5428.56 -72.04 5428.86 0.00 | |
| 16200.00 90.00 179.87 10475.01 -5528.56 -71.81 5528.86 0.00 | |
| 16300.00 90.00 179.87 10475.01 -5628.56 -71.58 5628.86 0.00 | |
| 16400.00 90.00 179.87 10475.01 -5728.56 -71.36 5728.85 0.00 16500.00 90.00 179.87 10475.01 -5828.56 -71.13 5828.85 0.00 | |
| 16600.00 90.00 179.87 10475.01 -5928.56 -70.90 5928.85 0.00 | |
| 16700.00 90.00 179.87 10475.01 -6028.56 -70.68 6028.84 0.00 | |
| 16800.00 90.00 179.87 10475.01 -6128.56 -70.45 6128.84 0.00 | |
| 16900.00 90.00 179.87 10475.01 -6228.56 -70.22 6228.84 0.00 17000.00 90.00 179.87 10475.01 -6328.56 -69.99 6328.84 0.00 | |
| 17000.00 90.00 179.87 10475.01 -6328.56 -69.99 6328.84 0.00 17100.00 90.00 179.87 10475.01 -6428.56 -69.77 6428.83 0.00 | |
| 17200.00 90.00 179.87 10475.01 -6528.56 -69.54 6528.83 0.00 | |
| 17300.00 90.00 179.87 10475.01 -6628.56 -69.31 6628.83 0.00 | |
| 17400.00 90.00 179.87 10475.01 -6728.56 -69.09 6728.83 0.00 | |
| 17500.00 90.00 179.87 10475.01 -6828.56 -68.86 6828.82 0.00 17600.00 90.00 179.87 10475.01 -6928.56 -68.63 6928.82 0.00 | |
| 17700.00 90.00 179.87 10475.01 -7028.56 -68.40 7028.82 0.00 | |
| 17800.00 90.00 179.87 10475.01 -7128.56 -68.18 7128.81 0.00 | |
| 17900.00 90.00 179.87 10475.01 -7228.56 -67.95 7228.81 0.00 | |
| 18000.00 90.00 179.87 10475.01 -7328.56 -67.72 7328.81 0.00 | |
| 18100.00 90.00 179.87 10475.01 -7428.56 -67.50 7428.81 0.00 18200.00 90.00 179.87 10475.01 -7528.56 -67.27 7528.80 0.00 | |
| 18300.00 90.00 179.87 10475.01 -7628.56 -67.04 7628.80 0.00 | |
| 18400.00 90.00 179.87 10475.01 -7728.56 -66.81 7728.80 0.00 | |
| 18500.00 90.00 179.87 10475.01 -7828.56 -66.59 7828.80 0.00 | |
| 18600.00 90.00 179.87 10475.01 -7928.56 -66.36 7928.79 0.00 | |
| 18700.00 90.00 179.87 10475.01 -8028.56 -66.13 8028.79 0.00 18800.00 90.00 179.87 10475.01 -8128.56 -65.91 8128.79 0.00 | |
| 18900.00 90.00 179.87 10475.01 -8128.56 -65.68 8228.78 0.00 | |
| 19000.00 90.00 179.87 10475.01 -8328.56 -65.45 8328.78 0.00 | |
| 19100.00 90.00 179.87 10475.01 -8428.56 -65.22 8428.78 0.00 | |
| 19200.00 90.00 179.87 10475.01 -8528.56 -65.00 8528.78 0.00 | |
| 19300.00 90.00 179.87 10475.01 -8628.56 -64.77 8628.77 0.00 19400.00 90.00 179.87 10475.01 -8728.56 -64.54 8728.77 0.00 | |
| | |

| daman | | Well: | MULE 11-1 | 4 FED COM 3 | 01H | | | | Geodetic System: US State Plane 1983 | | | |
|-------|----------|-----------|-------------|-------------|-----------|--------|------------------------|-----------|--------------------------------------|--|--|--|
| devon | | County: | Eddy | | | | | | Datum: North American Datum 1927 | | | |
| | | Wellbore: | Permit Plar | ı | | | Ellipsoid: Clarke 1866 | | | | | |
| | | Design: | Permit Plar | า #1 | | | | | Zone: 3001 - NM East (NAD83) | | | |
| | | | | | | | | | | | | |
| | MD | INC | AZI | TVD | NS | EW | VS | DLS | Comment | | | |
| | (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (°/100ft) | comment | | | |
| | 19500.00 | 90.00 | 179.87 | 10475.01 | -8828.55 | -64.32 | 8828.77 | 0.00 | | | | |
| | 19600.00 | 90.00 | 179.87 | 10475.01 | -8928.55 | -64.09 | 8928.77 | 0.00 | | | | |
| | 19700.00 | 90.00 | 179.87 | 10475.01 | -9028.55 | -63.86 | 9028.76 | 0.00 | | | | |
| | 19800.00 | 90.00 | 179.87 | 10475.01 | -9128.55 | -63.63 | 9128.76 | 0.00 | | | | |
| | 19900.00 | 90.00 | 179.87 | 10475.01 | -9228.55 | -63.41 | 9228.76 | 0.00 | | | | |
| | 20000.00 | 90.00 | 179.87 | 10475.01 | -9328.55 | -63.18 | 9328.75 | 0.00 | | | | |
| | 20100.00 | 90.00 | 179.87 | 10475.01 | -9428.55 | -62.95 | 9428.75 | 0.00 | | | | |
| | 20200.00 | 90.00 | 179.87 | 10475.01 | -9528.55 | -62.73 | 9528.75 | 0.00 | | | | |
| | 20300.00 | 90.00 | 179.87 | 10475.01 | -9628.55 | -62.50 | 9628.75 | 0.00 | | | | |
| | 20400.00 | 90.00 | 179.87 | 10475.01 | -9728.55 | -62.27 | 9728.74 | 0.00 | | | | |
| | 20500.00 | 90.00 | 179.87 | 10475.01 | -9828.55 | -62.04 | 9828.74 | 0.00 | | | | |
| | 20600.00 | 90.00 | 179.87 | 10475.01 | -9928.55 | -61.82 | 9928.74 | 0.00 | | | | |
| | 20700.00 | 90.00 | 179.87 | 10475.01 | -10028.55 | -61.59 | 10028.74 | 0.00 | | | | |
| | 20800.00 | 90.00 | 179.87 | 10475.01 | -10128.55 | -61.36 | 10128.73 | 0.00 | | | | |
| | 20900.00 | 90.00 | 179.87 | 10475.01 | -10228.55 | -61.13 | 10228.73 | 0.00 | | | | |
| | 21000.00 | 90.00 | 179.87 | 10475.01 | -10328.55 | -60.91 | 10328.73 | 0.00 | | | | |
| | 21100.00 | 90.00 | 179.87 | 10475.01 | -10428.55 | -60.68 | 10428.72 | 0.00 | | | | |
| | 21200.00 | 90.00 | 179.87 | 10475.01 | -10528.55 | -60.45 | 10528.72 | 0.00 | | | | |
| | 21300.00 | 90.00 | 179.87 | 10475.01 | -10628.55 | -60.23 | 10628.72 | 0.00 | | | | |
| | 21400.00 | 90.00 | 179.87 | 10475.01 | -10728.55 | -60.00 | 10728.72 | 0.00 | | | | |
| | 21500.00 | 90.00 | 179.87 | 10475.01 | -10828.55 | -59.77 | 10828.71 | 0.00 | | | | |
| | 21600.00 | 90.00 | 179.87 | 10475.01 | -10928.55 | -59.54 | 10928.71 | 0.00 | | | | |
| | 21700.00 | 90.00 | 179.87 | 10475.01 | -11028.55 | -59.32 | 11028.71 | 0.00 | | | | |
| | 21800.00 | 90.00 | 179.87 | 10475.01 | -11128.55 | -59.09 | 11128.71 | 0.00 | | | | |
| | 21900.00 | 90.00 | 179.87 | 10475.01 | -11228.55 | -58.86 | 11228.70 | 0.00 | | | | |
| | 22000.00 | 90.00 | 179.87 | 10475.01 | -11328.55 | -58.64 | 11328.70 | 0.00 | | | | |
| | 22033.07 | 90.00 | 179.87 | 10475.01 | -11361.62 | -58.56 | 11361.77 | 0.00 | exit | | | |
| | 22100.00 | 90.00 | 179.87 | 10475.01 | -11428.55 | -58.41 | 11428.70 | 0.00 | | | | |
| | 22113.07 | 90.00 | 179.87 | 10475.00 | -11441.62 | -58.41 | 11441.77 | 0.00 | BHL | | | |
| | 22113.07 | 50.00 | 175.07 | 10-15.00 | 11441.02 | 50.41 | / / | 0.00 | | | | |

Mule 11-14 Fed Com 531H

| 9 5/8 | sur | face csg in a | 13 1/2 | inch hole. | | Design I | Factors | | | Surface | 9 | |
|---|---|--|---|---|--|--|---|---|-----------------|--------------------|----------------------|---|
| Segment | #/ft | Grade | | Coupling | Body | Collapse | Burst | Length | B@s | a-B | a-C | Weight |
| "A" | 40.00 | | i 55 | btc | 21.72 | 7.58 | 0.74 | 725 | 12 | 1.23 | 14.32 | 29,000 |
| "B" | | | , | btc | | | | 0 | | | | 0 |
| | w/8.4#/s | g mud, 30min Sfc Csg Test | psig: 1,500 | Tail Cmt | does not | circ to sfc. | Totals: | 725 | | | | 29,000 |
| omparison o | | nimum Required Cem | | | | | | | | | | - , |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Reg'd | | | | Min Dis |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cp |
| 13 1/2 | 0.4887 | 370 | 533 | 354 | 50 | 9.00 | 3203 | 5M | | | | 1.44 |
| urst Fras Gras | diant(c) for Sorma | ent(s) A, B = , b All > 0 | 0.70 OK | | | a racks S or E) | as par 0 0 1 | | | | | |
| | | | | | | | | | iouna. | | | |
| 7 5/8 | casin | g inside the | 9 5/8 | | | Design | Factors | | | Int 1 | | |
| Segment | #/ft | Grade | | Coupling | Joint | Collapse | Burst | Length | B@s | a-B | a-C | Weigh |
| "A" | 29.70 | | p 110 | mo-fxl | 2.25 | 1.31 | 1.33 | 9,843 | 1 | 2.22 | 2.20 | • |
| "B" | | | | | | | | 0 | | | | 0 |
| | w/8.4#/s | g mud, 30min Sfc Csg Test | psig: | | | | Totals: | 9,843 | | | | 292,33 |
| | , 3.447 | | | nded to achieve a top of | 0 | ft from su | | 725 | | | | overlap. |
| Hole | Annular | 1 Stage | 1 Stage | Min | 1 Stage | Drilling | Calc | Rea'd | | | | Min Dis |
| Size | Volume | Cmt Sx | CuFt Cmt | Cu Ft | % Excess | Mud Wt | MASP | BOPE | | | | Hole-Cp |
| 8 3/4 | 0.1005 | 291 | 419 | 995 | -58 | 10.50 | 3409 | 5M | | | | 0.56 |
| 0 3/4 | 0.1005 | 291 | | 990 | -00 | 10.50 | | - | | | | |
| | | | | | | | sum of sx | Σ CuFt | | | | Σ%exces |
| O V Tool(s): | | | 6676 | | | | | | | | | 00 |
| V Tool(s): by stage % : | nt yld > 1.35 | 32 | 27 | | | | 666 | 1282 | | | | 29 |
| D V Tool(s): by stage % : lass 'C' tail cm Tail cmt | | | 27 | | | Design Fac | 666 | | | Prod 1 | | 29 |
| D V Tool(s): by stage % : lass 'C' tail cm Tail cmt 5 1/2 | casin | g inside the | | Coupling | Body | Design Far | 666 ctors | 1282 | B@s | Prod 1 | | |
| D V Tool(s): by stage % : class 'C' tail cm Tail cmt 5 1/2 Segment | casir #/ft | | 27 7 5/8 | Coupling | Body | Collapse | 666 ctors Burst | 1282 | B@s | a-B | a-C | Weigh |
| V Tool(s): by stage % : lass 'C' tail cm Tail cmt 5 1/2 Segment "A" | casin | g inside the | 27 | Coupling vam sprint-tc sc | Body 3.06 | | 666 ctors | 1282 Length 22,113 | B@s 3 | | a-C | Weigh 442,26 |
| D V Tool(s): by stage % : class 'C' tail cm Tail cmt 5 1/2 Segment | casin #/ft 20.00 | g inside the Grade | 27 7 5/8 p 110 | | | Collapse | 666 ctors Burst 2.51 | 1282 Length 22,113 0 | <u> </u> | a-B | a-C | Weigh 442,26 0 |
| D V Tool(s): by stage % : class 'C' tail cm Tail cmt 5 1/2 Segment "A" | casin #/ft 20.00 | ig inside the Grade g mud, 30min Sfc Csg Test | 27 7 5/8 p 110 psig: 2,305 | vam sprint-tc sc | 3.06 | Collapse 2.11 | 666 ctors Burst 2.51 Totals: | 1282 Length 22,113 0 22,113 | <u> </u> | a-B | a-C | Weigh 442,26 0 442,26 |
| D V Tool(s): by stage % : class 'C' tail cmt 5 1/2 Segment "A" "B" | casir #/ft 20.00 w/8.4#/g | g inside the Grade g mud, 30min Sfc Csg Test The cement | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter | vam sprint-tc sc | 3.06 9643 | Collapse 2.11 ft from su | 666 ctors Burst 2.51 Totals: Inface or a | 1282 Length 22,113 0 22,113 200 | <u> </u> | a-B | a-C | Weigh 442,26 0 442,26 overlap. |
| D V Tool(s): by stage % : class 'C' tail cmt 5 1/2 Segment "A" "B" Hole | casir #/ft 20.00 w/8.4#/t Annular | g inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage | vam sprint-tc sc nded to achieve a top of Min | 3.06 9643 1 Stage | Collapse 2.11 ft from su Drilling | 666 ctors Burst 2.51 Totals: urface or a Calc | 1282 Length 22,113 0 22,113 200 Req'd | <u> </u> | a-B | a-C | Weigh 442,26 0 442,26 overlap. Min Dis |
| D V Tool(s): by stage % : lass 'C' tail cmt 5 1/2 Segment "A" "B" Hole Size | casin #/ft 20.00 w/8.4#/i Annular Volume | g inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage CuFt Cmt | vam sprint-tc sc nded to achieve a top of Min Cu Ft | 3.06 9643 1 Stage % Excess | Collapse 2.11 ft from su Drilling Mud Wt | 666 ctors Burst 2.51 Totals: Inface or a | 1282 Length 22,113 0 22,113 200 | <u> </u> | a-B | a-C | Weigh 442,26 0 442,26 overlap. Min Dis Hole-Cp |
| D V Tool(s): by stage % : class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" Hole Size 6 3/4 | casin #/ft 20.00 w/8.4#/t Annular Volume 0.0835 | g inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage | vam sprint-tc sc nded to achieve a top of Min | 3.06 9643 1 Stage | Collapse 2.11 ft from su Drilling | 666 ctors Burst 2.51 Totals: urface or a Calc | 1282 Length 22,113 0 22,113 200 Req'd | <u> </u> | a-B | a-C | Weigh 442,26 0 442,26 |
| D V Tool(s): by stage % : class 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 class 'C' tail cm | casin #/ft 20.00 w/8.4#/t Annular Volume 0.0835 | g inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage CuFt Cmt | vam sprint-tc sc nded to achieve a top of Min Cu Ft | 3.06 9643 1 Stage % Excess | Collapse 2.11 ft from su Drilling Mud Wt | 666 ctors Burst 2.51 Totals: urface or a Calc | 1282 Length 22,113 0 22,113 200 Req'd | <u> </u> | a-B | a-C | Weigh 442,26 0 442,26 overlap. Min Dis Hole-Cpl |
| D V Tool(s): by stage % : class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" Hole Size 6 3/4 | casin #/ft 20.00 w/8.4#/t Annular Volume 0.0835 | g inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage CuFt Cmt 1320 | vam sprint-tc sc nded to achieve a top of Min Cu Ft | 3.06 9643 1 Stage % Excess | Collapse 2.11 ft from su Drilling Mud Wt 10.50 | 666 Ctors Burst 2.51 Totals: Inface or a Calc MASP | 1282 Length 22,113 0 22,113 200 Req'd | 3 | a-B 4.21 | a-C 3.54 | Weigh 442,26 0 442,26 overlap. Min Dis Hole-Cp |
| D V Tool(s): by stage % : ilass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 ilass 'C' tail cm #N/A 0 | casin #/ft 20.00 w/8.4#/f Annular Volume 0.0835 itt yld > 1.35 | g inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 838 | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage CuFt Cmt | vam sprint-tc sc nded to achieve a top of Min Cu Ft 1043 | 3.06 9643 1 Stage % Excess 27 | Collapse 2.11 ft from su Drilling Mud Wt 10.50 Design I | 666 Ctors Burst 2.51 Totals: Irface or a Calc MASP Factors | 1282 Length 22,113 0 22,113 200 Req'd BOPE | 3 | a-B 4.21 | a-C 3.54 sing> | Weigh 442,26 0 442,26 overlap. Min Dis Hole-Cp 0.43 |
| D V Tool(s): by stage % : lass 'C' tail cmt 5 1/2 Segment "A" "B" Hole Size 6 3/4 ilass 'C' tail cm #N/A 0 Segment | casin #/ft 20.00 w/8.4#/t Annular Volume 0.0835 | g inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage CuFt Cmt 1320 | vam sprint-tc sc nded to achieve a top of Min Cu Ft 1043 Coupling | 3.06 9643 1 Stage % Excess | Collapse 2.11 ft from su Drilling Mud Wt 10.50 | 666 Ctors Burst 2.51 Totals: Inface or a Calc MASP | 1282 Length 22,113 0 22,113 200 Req'd BOPE | 3 | a-B 4.21 | a-C 3.54 | Weigh 442,26 0 442,26 overlap. Min Dis Hole-Cp 0.43 Weigh |
| 0 V Tool(s): by stage % : lass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 lass 'C' tail cm #N/A 0 Segment "A" | casin #/ft 20.00 w/8.4#/f Annular Volume 0.0835 itt yld > 1.35 | g inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 838 | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage CuFt Cmt 1320 | vam sprint-tc sc nded to achieve a top of Min Cu Ft 1043 Coupling 0.00 | 3.06 9643 1 Stage % Excess 27 | Collapse 2.11 ft from su Drilling Mud Wt 10.50 Design I | 666 Ctors Burst 2.51 Totals: Irface or a Calc MASP Factors | 1282 Length 22,113 0 22,113 200 Req'd BOPE Length 0 | 3 | a-B 4.21 | a-C 3.54 sing> | Weigh 442,26 0 442,26 overlap. Min Dis Hole-Cp 0.43 Weigh 0 |
| <pre>D V Tool(s): by stage % : lass 'C' tail cmt 5 1/2 Segment "A" "B" Hole Size 6 3/4 lass 'C' tail cm #N/A 0 Segment</pre> | casin #/ft 20.00 w/8.4#/t Annular Volume 0.0835 nt yld > 1.35 #/ft | ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 838 Grade g mud, 30min Sfc Csg Test | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage CuFt Cmt 1320 5 1/2 psig: | vam sprint-tc sc nded to achieve a top of Min Cu Ft 1043 Coupling 0.00 0.00 | 3.06 9643 1 Stage % Excess 27 #N/A | Collapse 2.11 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse | 666 Ctors Burst 2.51 Totals: urface or a Calc MASP Factors Burst Totals: | 1282 Length 22,113 0 22,113 200 Req'd BOPE | 3 | a-B 4.21 | a-C 3.54 sing> | Weigh 442,26 0 442,26 overlap. Min Dis Hole-Cp 0.43 Weigh 0 0 0 |
| D V Tool(s): by stage % : ilass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 ilass 'C' tail cm #N/A 0 Segment "A" "B" | casin #/ft 20.00 w/8.4#/r Annular Volume 0.0835 nt yld > 1.35 #/ft w/8.4#/r | ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 838 Grade g mud, 30min Sfc Csg Test Cmt vol c | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage CuFt Cmt 1320 5 1/2 psig: alc below includes | vam sprint-tc sc nded to achieve a top of Min Cu Ft 1043 Coupling 0.00 0.00 this csg, TOC intended | 3.06 9643 1 Stage % Excess 27 #N/A | Collapse 2.11 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse | 666 Ctors Burst 2.51 Totals: urface or a Calc MASP Factors Burst Totals: urface or a | 1282 Length 22,113 0 22,113 200 Req'd BOPE | 3 | a-B 4.21 | a-C 3.54 sing> | Weigh 442,26 0 442,26 overlap. Min Dis Hole-Cp 0.43 Weigh 0 0 0 0 0 0 0 0 |
| D V Tool(s): by stage % : class 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 class 'C' tail cm #N/A 0 Segment "A" "B" Hole | casin #/ft 20.00 w/8.4#/f Annular Volume 0.0835 tt yld > 1.35 #/ft w/8.4#/f Annular | g inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 838 Grade g mud, 30min Sfc Csg Test Cmt vol c 1 Stage | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage CuFt Cmt 1320 5 1/2 5 1/2 | vam sprint-tc sc nded to achieve a top of Min Cu Ft 1043 Coupling 0.00 0.00 0.00 this csg, TOC intended Min | 3.06 9643 1 Stage % Excess 27 #N/A #N/A 1 Stage | Collapse 2.11 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse ft from su Drilling | 666 ctors Burst 2.51 Totals: urface or a Calc MASP Factors Burst Totals: urface or a Calc | 1282 Length 22,113 0 22,113 200 Req'd BOPE Length 0 0 0 %N/A Req'd | 3 | a-B 4.21 | a-C 3.54 sing> | Weigh 442,26 0 442,26 overlap. Min Dis Hole-Cp 0.43 Weigh 0 0 0 overlap. Min Dis |
| D V Tool(s): by stage % : lass 'C' tail cm 5 1/2 Segment "A" "B" Hole Size 6 3/4 lass 'C' tail cm #N/A 0 Segment "A" "B" | casin #/ft 20.00 w/8.4#/r Annular Volume 0.0835 nt yld > 1.35 #/ft w/8.4#/r | ng inside the Grade g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 838 Grade g mud, 30min Sfc Csg Test Cmt vol c | 27 7 5/8 p 110 psig: 2,305 volume(s) are inter 1 Stage CuFt Cmt 1320 5 1/2 psig: alc below includes | vam sprint-tc sc nded to achieve a top of Min Cu Ft 1043 Coupling 0.00 0.00 this csg, TOC intended | 3.06 9643 1 Stage % Excess 27 #N/A | Collapse 2.11 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse | 666 Ctors Burst 2.51 Totals: urface or a Calc MASP Factors Burst Totals: urface or a | 1282 Length 22,113 0 22,113 200 Req'd BOPE | 3 | a-B 4.21 | a-C 3.54 sing> | Weigh 442,26 0 442,26 overlap. Min Dis Hole-Cp 0.43 Weigh 0 0 0 overlap. Min Dis |
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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

| Operator: | OGRID: |
|-------------------------------------|--------------------------------------|
| DEVON ENERGY PRODUCTION COMPANY, LP | 6137 |
| 333 West Sheridan Ave. | Action Number: |
| Oklahoma City, OK 73102 | 347216 |
| | Action Type: |
| | [C-103] NOI Change of Plans (C-103A) |

| CONDITIONS | | |
|-------------|---|-------------------|
| Created By | Condition | Condition Date |
| ward.rikala | All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required. | 8/6/2024 |

CONDITIONS

Action 347216

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