

|                               |                                                       |                                              |
|-------------------------------|-------------------------------------------------------|----------------------------------------------|
| Well Name: MULE 23-11 FED COM | Well Location: T25S / R31E / SEC 23 / NENW /          | County or Parish/State:                      |
| Well Number: 822H             | Type of Well: OIL WELL                                | Allottee or Tribe Name:                      |
| Lease Number: NMLC0061862     | Unit or CA Name:                                      | Unit or CA Number:                           |
| US Well Number: 3001549388    | Well Status: Approved Application for Permit to Drill | Operator: DEVON ENERGY PRODUCTION COMPANY LP |

Notice of Intent

Sundry ID: 2673076

|                                                |                              |
|------------------------------------------------|------------------------------|
| Type of Submission: Notice of Intent           | Type of Action: APD Change   |
| Date Sundry Submitted: 05/24/2022              | Time Sundry Submitted: 07:50 |
| Date proposed operation will begin: 05/24/2022 |                              |

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to change the drilling plan with surface casing changes, cement loss plan, and break test. Please see attachments.

NOI Attachments

Procedure Description

- 10M\_BOPE\_CHK\_DR\_CLS\_RKL\_20220524075026.pdf
- MB\_Wellhd\_WC\_3\_STRING\_20\_10.75\_8.625\_5.5\_20220524075026.pdf
- MULE\_23\_11\_FED\_COM\_822H\_Directional\_Plan\_05\_04\_22\_20220524075026.pdf
- break\_test\_variance\_BOP\_20220524075026.pdf
- MULE\_23\_11\_FED\_COM\_822H\_20220524075025.pdf

|                               |                                                       |                                              |
|-------------------------------|-------------------------------------------------------|----------------------------------------------|
| Well Name: MULE 23-11 FED COM | Well Location: T25S / R31E / SEC 23 / NENW /          | County or Parish/State:                      |
| Well Number: 822H             | Type of Well: OIL WELL                                | Allottee or Tribe Name:                      |
| Lease Number: NMLC0061862     | Unit or CA Name:                                      | Unit or CA Number:                           |
| US Well Number: 3001549388    | Well Status: Approved Application for Permit to Drill | Operator: DEVON ENERGY PRODUCTION COMPANY LP |

Conditions of Approval

Additional

23\_25\_31\_C\_Sundry\_ID\_2673076\_Mule\_23\_11\_Fed\_Com\_822H\_Eddy\_LC061862\_Devon\_Energy\_Production\_Comp  
any\_LP\_13\_22c\_11\_30\_2021\_LV\_20220610130203.pdf  
Mule\_23\_11\_Fed\_Com\_822H\_Dr\_COA\_Sundry\_ID\_2673076\_20220610130203.pdf

Operator

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

|                                            |                                  |
|--------------------------------------------|----------------------------------|
| Operator Electronic Signature: JENNY HARMS | Signed on: MAY 24, 2022 07:50 AM |
| Name: DEVON ENERGY PRODUCTION COMPANY LP   |                                  |
| Title: Regulatory Compliance Professional  |                                  |
| Street Address: 333 West Sheridan Avenue   |                                  |
| City: Oklahoma City                        | State: OK                        |
| Phone: (405) 552-6560                      |                                  |
| Email address: jennifer.harms@dvn.com      |                                  |

Field

|                      |        |      |
|----------------------|--------|------|
| Representative Name: |        |      |
| Street Address:      |        |      |
| City:                | State: | Zip: |
| Phone:               |        |      |
| Email address:       |        |      |

BLM Point of Contact

|                                 |                                       |
|---------------------------------|---------------------------------------|
| BLM POC Name: CHRISTOPHER WALLS | BLM POC Title: Petroleum Engineer     |
| BLM POC Phone: 5752342234       | BLM POC Email Address: cwalls@blm.gov |
| Disposition: Approved           | Disposition Date: 06/10/2022          |
| Signature: Chris Walls          |                                       |

|                               |                                                       |                                              |
|-------------------------------|-------------------------------------------------------|----------------------------------------------|
| Well Name: MULE 23-11 FED COM | Well Location: T25S / R31E / SEC 23 / NENW /          | County or Parish/State:                      |
| Well Number: 822H             | Type of Well: OIL WELL                                | Allottee or Tribe Name:                      |
| Lease Number: NMLC0061862     | Unit or CA Name:                                      | Unit or CA Number:                           |
| US Well Number: 3001549388    | Well Status: Approved Application for Permit to Drill | Operator: DEVON ENERGY PRODUCTION COMPANY LP |

Notice of Intent

Sundry ID: 2670377

|                                                |                              |
|------------------------------------------------|------------------------------|
| Type of Submission: Notice of Intent           | Type of Action: APD Change   |
| Date Sundry Submitted: 05/05/2022              | Time Sundry Submitted: 01:11 |
| Date proposed operation will begin: 05/05/2022 |                              |

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to have a name change on the subject well. Approved Permitted well name: MULE 23-11 FED COM 832H Proposed well name: Mule 23-11 Fed Com 822H

|                               |                                                       |                                              |
|-------------------------------|-------------------------------------------------------|----------------------------------------------|
| Well Name: MULE 23-11 FED COM | Well Location: T25S / R31E / SEC 23 / NENW /          | County or Parish/State:                      |
| Well Number: 822H             | Type of Well: OIL WELL                                | Allottee or Tribe Name:                      |
| Lease Number: NMLC0061862     | Unit or CA Name:                                      | Unit or CA Number:                           |
| US Well Number: 3001549388    | Well Status: Approved Application for Permit to Drill | 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: JENNY HARMS | Signed on: MAY 05, 2022 01:11 PM |
| Name: DEVON ENERGY PRODUCTION COMPANY LP   |                                  |
| Title: Regulatory Compliance Professional  |                                  |
| Street Address: 333 West Sheridan Avenue   |                                  |
| City: Oklahoma City                        | State: OK                        |
| Phone: (405) 552-6560                      |                                  |
| Email address: jennifer.harms@dvn.com      |                                  |

Field

|                      |        |      |
|----------------------|--------|------|
| Representative Name: |        |      |
| Street Address:      |        |      |
| City:                | State: | Zip: |
| Phone:               |        |      |
| Email address:       |        |      |

BLM Point of Contact

|                                                |                                       |
|------------------------------------------------|---------------------------------------|
| BLM POC Name: Candy Vigil                      | BLM POC Title: LIE                    |
| BLM POC Phone: 5752345982                      | BLM POC Email Address: cvigil@blm.gov |
| Disposition: Approved                          | Disposition Date: 05/06/2022          |
| Signature: Cody Layton Assistant Field Manager |                                       |

DISTRICT I  
1625 N. FRENCH DR., HOBBS, NM 88240  
Phone: (505) 393-6161 Fax: (505) 393-0720

DISTRICT II  
811 S. FIRST ST., ARTESIA, NM 88210  
Phone: (505) 748-1283 Fax: (505) 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) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☒ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

|                            |                                                        |                                    |
|----------------------------|--------------------------------------------------------|------------------------------------|
| API Number<br>30-015-49388 | Pool Code<br>[98220]                                   | Pool Name<br>Purple Sage; Wolfcamp |
| Property Code<br>332698    | Property Name<br>MULE 23-11 FED COM                    | Well Number<br>822H                |
| OGRID No.<br>6137          | Operator Name<br>DEVON ENERGY PRODUCTION COMPANY, L.P. | Elevation<br>3360.6'               |

**Surface Location**

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| C             | 23      | 25-S     | 31-E  |         | 1109          | NORTH            | 2220          | WEST           | EDDY   |

**Bottom Hole Location If Different From Surface**

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| C             | 11      | 25-S     | 31-E  |         | 20            | NORTH            | 1760          | WEST           | EDDY   |

| Dedicated Acres | Joint or Infill | Consolidation Code | Order No. |
|-----------------|-----------------|--------------------|-----------|
| 720             |                 |                    |           |

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

EL: 3300.0  
LAT: 32.120009  
LON: 103.750161  
N: 407883.98  
E: 721879.51  
**FIRST TAKE POINT**  
1213' FNL 1760' FWL SEC. 23  
LAT: 32.119737  
LON: 103.751647  
N: 407782.60  
E: 721419.85  
**LAST TAKE POINT**  
100' FNL 1760' FWL SEC. 11  
LAT: 32.151904  
LON: 103.751531  
N: 419485.51  
E: 721391.43  
**BOTTOM OF HOLE**  
LAT: 32.152124  
LON: 103.751531  
N: 419564.52  
E: 721392.08

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

**OPERATOR CERTIFICATION**

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Jenny Harms* 10-6-2021  
Signature Date

**JENNY HARMS**  
Printed Name  
JENNY.HARMS@DVN.COM  
E-mail Address

**SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

09/2/2021  
Date of Survey

Signature & Seal of Professional Surveyor

09/14/21  
Certificate No. 22404 B.L. LAMAN  
DRAWN BY: JP

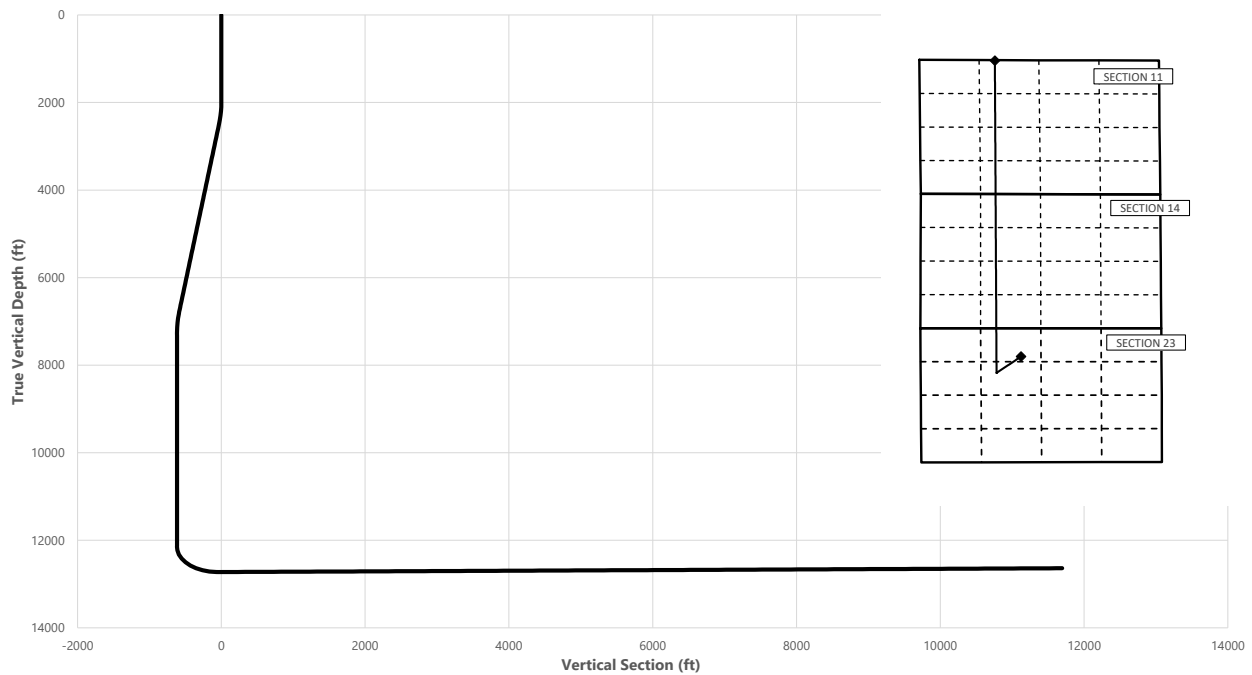
MULE 23-11 FED COM 822H



**Well:** MULE 23-11 FED COM 822H  
**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<br>(ft) | INC<br>(°) | AZI<br>(°) | TVD<br>(ft) | NS<br>(ft) | EW<br>(ft) | VS<br>(ft) | DLS<br>(°/100ft) | Comment          |
|------------|------------|------------|-------------|------------|------------|------------|------------------|------------------|
| 0.00       | 0.00       | 0.00       | 0.00        | 0.00       | 0.00       | 0.00       | 0.00             | SHL              |
| 2000.00    | 0.00       | 220.00     | 2000.00     | 0.00       | 0.00       | 0.00       | 0.00             | Start Tangent    |
| 2500.00    | 10.00      | 220.00     | 2497.47     | -33.34     | -27.98     | -31.92     | 2.00             | Hold Tangent     |
| 6844.36    | 10.00      | 220.00     | 6775.82     | -611.24    | -512.89    | -585.17    | 0.00             | Drop to Vertical |
| 7344.36    | 0.00       | 220.00     | 7273.29     | -644.58    | -540.86    | -617.09    | 2.00             | Hold Vertical    |
| 12224.13   | 0.00       | 359.83     | 12153.06    | -644.58    | -540.86    | -617.09    | 0.00             | KOP              |
| 13128.37   | 90.42      | 359.83     | 12726.00    | -67.38     | -542.58    | -40.51     | 10.00            | Landing Point    |
| 24877.32   | 90.42      | 359.83     | 12639.00    | 11681.20   | -577.44    | 11695.46   | 0.00             | BHL              |

**Key Depths**

|                                 | MD<br>(ft) | TVD<br>(ft) |
|---------------------------------|------------|-------------|
| Rustler                         | 665.00     | 665.00      |
| Salt                            | 1090.00    | 1090.00     |
| Base of Salt                    | 4193.26    | 4165.00     |
| Delaware                        | 4418.68    | 4387.00     |
| Cherry Canyon                   | 5411.77    | 5365.00     |
| Brushy Canyon                   | 6743.00    | 6676.00     |
| 1st Bone Spring Lime            | 8378.07    | 8307.00     |
| Bone Spring 1st                 | 9403.07    | 9332.00     |
| Bone Spring 2nd                 | 9606.07    | 9535.00     |
| 3rd Bone Spring Lime            | 10504.07   | 10433.00    |
| Bone Spring 3rd                 | 11271.07   | 11200.00    |
| Wolfcamp / Point of Penetration | 11695.07   | 11624.00    |
| exit                            | 24797.32   | 12639.61    |

**SHL**  
**KOP**  
**Point of Penetration**  
**Exit**  
**BHL**

| MD<br>(ft) | TVD<br>(ft) | Lat<br>(°) | Long<br>(°) | Section Footages                             |
|------------|-------------|------------|-------------|----------------------------------------------|
| 0.00       | 0.00        | 32.1199    | -103.7502   | 1109' FNL, 2220' FWL of Sec 23 in T25S, R31E |
| 12224.13   | 12153.06    | 32.1182    | -103.7520   | 1764' FNL, 1677' FWL of Sec 23 in T25S, R31E |
| 11695.07   | 11624.00    | 32.1197    | -103.7519   | 1213' FNL, 1670' FWL of Sec 23 in T25S, R31E |
| 24797.32   | 12639.61    | 32.1519    | -103.7518   | 100' FNL, 1670' FWL of Sec 11 in T25S, R31E  |
| 24877.32   | 12639.00    | 32.1520    | -103.7519   | 20' FNL, 1670' FWL of Sec 11 in T25S, R31E   |

MULE 23-11 FED COM 822H



Well: MULE 23-11 FED COM 822H  
 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<br>(ft) | INC<br>(°) | AZI<br>(°) | TVD<br>(ft) | NS<br>(ft) | EW<br>(ft) | VS<br>(ft) | DLS<br>(°/100ft) | Comment       |
|------------|------------|------------|-------------|------------|------------|------------|------------------|---------------|
| 0.00       | 0.00       | 0.00       | 0.00        | 0.00       | 0.00       | 0.00       | 0.00             | SHL           |
| 100.00     | 0.00       | 220.00     | 100.00      | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 200.00     | 0.00       | 220.00     | 200.00      | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 300.00     | 0.00       | 220.00     | 300.00      | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 400.00     | 0.00       | 220.00     | 400.00      | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 500.00     | 0.00       | 220.00     | 500.00      | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 600.00     | 0.00       | 220.00     | 600.00      | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 665.00     | 0.00       | 220.00     | 665.00      | 0.00       | 0.00       | 0.00       | 0.00             | Rustler       |
| 700.00     | 0.00       | 220.00     | 700.00      | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 800.00     | 0.00       | 220.00     | 800.00      | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 900.00     | 0.00       | 220.00     | 900.00      | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 1000.00    | 0.00       | 220.00     | 1000.00     | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 1090.00    | 0.00       | 220.00     | 1090.00     | 0.00       | 0.00       | 0.00       | 0.00             | Salt          |
| 1100.00    | 0.00       | 220.00     | 1100.00     | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 1200.00    | 0.00       | 220.00     | 1200.00     | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 1300.00    | 0.00       | 220.00     | 1300.00     | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 1400.00    | 0.00       | 220.00     | 1400.00     | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 1500.00    | 0.00       | 220.00     | 1500.00     | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 1600.00    | 0.00       | 220.00     | 1600.00     | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 1700.00    | 0.00       | 220.00     | 1700.00     | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 1800.00    | 0.00       | 220.00     | 1800.00     | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 1900.00    | 0.00       | 220.00     | 1900.00     | 0.00       | 0.00       | 0.00       | 0.00             |               |
| 2000.00    | 0.00       | 220.00     | 2000.00     | 0.00       | 0.00       | 0.00       | 0.00             | Start Tangent |
| 2100.00    | 2.00       | 220.00     | 2099.98     | -1.34      | -1.12      | -1.28      | 2.00             |               |
| 2200.00    | 4.00       | 220.00     | 2199.84     | -5.35      | -4.49      | -5.12      | 2.00             |               |
| 2300.00    | 6.00       | 220.00     | 2299.45     | -12.02     | -10.09     | -11.51     | 2.00             |               |
| 2400.00    | 8.00       | 220.00     | 2398.70     | -21.36     | -17.92     | -20.45     | 2.00             |               |
| 2500.00    | 10.00      | 220.00     | 2497.47     | -33.34     | -27.98     | -31.92     | 2.00             | Hold Tangent  |
| 2600.00    | 10.00      | 220.00     | 2595.95     | -46.64     | -39.14     | -44.65     | 0.00             |               |
| 2700.00    | 10.00      | 220.00     | 2694.43     | -59.94     | -50.30     | -57.39     | 0.00             |               |
| 2800.00    | 10.00      | 220.00     | 2792.91     | -73.25     | -61.46     | -70.12     | 0.00             |               |
| 2900.00    | 10.00      | 220.00     | 2891.39     | -86.55     | -72.62     | -82.86     | 0.00             |               |
| 3000.00    | 10.00      | 220.00     | 2989.87     | -99.85     | -83.78     | -95.59     | 0.00             |               |
| 3100.00    | 10.00      | 220.00     | 3088.35     | -113.15    | -94.95     | -108.33    | 0.00             |               |
| 3200.00    | 10.00      | 220.00     | 3186.83     | -126.46    | -106.11    | -121.06    | 0.00             |               |
| 3300.00    | 10.00      | 220.00     | 3285.31     | -139.76    | -117.27    | -133.80    | 0.00             |               |
| 3400.00    | 10.00      | 220.00     | 3383.79     | -153.06    | -128.43    | -146.53    | 0.00             |               |
| 3500.00    | 10.00      | 220.00     | 3482.27     | -166.36    | -139.59    | -159.27    | 0.00             |               |
| 3600.00    | 10.00      | 220.00     | 3580.75     | -179.66    | -150.76    | -172.00    | 0.00             |               |
| 3700.00    | 10.00      | 220.00     | 3679.23     | -192.97    | -161.92    | -184.74    | 0.00             |               |
| 3800.00    | 10.00      | 220.00     | 3777.72     | -206.27    | -173.08    | -197.47    | 0.00             |               |
| 3900.00    | 10.00      | 220.00     | 3876.20     | -219.57    | -184.24    | -210.21    | 0.00             |               |
| 4000.00    | 10.00      | 220.00     | 3974.68     | -232.87    | -195.40    | -222.94    | 0.00             |               |
| 4100.00    | 10.00      | 220.00     | 4073.16     | -246.18    | -206.57    | -235.68    | 0.00             |               |
| 4193.26    | 10.00      | 220.00     | 4165.00     | -258.58    | -216.97    | -247.55    | 0.00             | Base of Salt  |
| 4200.00    | 10.00      | 220.00     | 4171.64     | -259.48    | -217.73    | -248.41    | 0.00             |               |
| 4300.00    | 10.00      | 220.00     | 4270.12     | -272.78    | -228.89    | -261.15    | 0.00             |               |
| 4400.00    | 10.00      | 220.00     | 4368.60     | -286.08    | -240.05    | -273.88    | 0.00             |               |
| 4418.68    | 10.00      | 220.00     | 4387.00     | -288.57    | -242.14    | -276.26    | 0.00             | Delaware      |
| 4500.00    | 10.00      | 220.00     | 4467.08     | -299.39    | -251.21    | -286.62    | 0.00             |               |
| 4600.00    | 10.00      | 220.00     | 4565.56     | -312.69    | -262.37    | -299.35    | 0.00             |               |
| 4700.00    | 10.00      | 220.00     | 4664.04     | -325.99    | -273.54    | -312.09    | 0.00             |               |
| 4800.00    | 10.00      | 220.00     | 4762.52     | -339.29    | -284.70    | -324.82    | 0.00             |               |
| 4900.00    | 10.00      | 220.00     | 4861.00     | -352.59    | -295.86    | -337.56    | 0.00             |               |
| 5000.00    | 10.00      | 220.00     | 4959.48     | -365.90    | -307.02    | -350.29    | 0.00             |               |
| 5100.00    | 10.00      | 220.00     | 5057.97     | -379.20    | -318.18    | -363.03    | 0.00             |               |
| 5200.00    | 10.00      | 220.00     | 5156.45     | -392.50    | -329.35    | -375.76    | 0.00             |               |
| 5300.00    | 10.00      | 220.00     | 5254.93     | -405.80    | -340.51    | -388.50    | 0.00             |               |
| 5400.00    | 10.00      | 220.00     | 5353.41     | -419.11    | -351.67    | -401.23    | 0.00             |               |
| 5411.77    | 10.00      | 220.00     | 5365.00     | -420.67    | -352.98    | -402.73    | 0.00             | Cherry Canyon |
| 5500.00    | 10.00      | 220.00     | 5451.89     | -432.41    | -362.83    | -413.97    | 0.00             |               |
| 5600.00    | 10.00      | 220.00     | 5550.37     | -445.71    | -373.99    | -426.70    | 0.00             |               |
| 5700.00    | 10.00      | 220.00     | 5648.85     | -459.01    | -385.15    | -439.44    | 0.00             |               |
| 5800.00    | 10.00      | 220.00     | 5747.33     | -472.31    | -396.32    | -452.17    | 0.00             |               |
| 5900.00    | 10.00      | 220.00     | 5845.81     | -485.62    | -407.48    | -464.91    | 0.00             |               |
| 6000.00    | 10.00      | 220.00     | 5944.29     | -498.92    | -418.64    | -477.64    | 0.00             |               |
| 6100.00    | 10.00      | 220.00     | 6042.77     | -512.22    | -429.80    | -490.38    | 0.00             |               |
| 6200.00    | 10.00      | 220.00     | 6141.25     | -525.52    | -440.96    | -503.11    | 0.00             |               |
| 6300.00    | 10.00      | 220.00     | 6239.73     | -538.83    | -452.13    | -515.85    | 0.00             |               |
| 6400.00    | 10.00      | 220.00     | 6338.22     | -552.13    | -463.29    | -528.58    | 0.00             |               |



MULE 23-11 FED COM 822H



**Well:** MULE 23-11 FED COM 822H  
**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<br>(ft) | INC<br>(") | AZI<br>(") | TVD<br>(ft) | NS<br>(ft) | EW<br>(ft) | VS<br>(ft) | DLS<br>(°/100ft) | Comment                         |
|------------|------------|------------|-------------|------------|------------|------------|------------------|---------------------------------|
| 6500.00    | 10.00      | 220.00     | 6436.70     | -565.43    | -474.45    | -541.32    | 0.00             |                                 |
| 6600.00    | 10.00      | 220.00     | 6535.18     | -578.73    | -485.61    | -554.05    | 0.00             |                                 |
| 6700.00    | 10.00      | 220.00     | 6633.66     | -592.03    | -496.77    | -566.78    | 0.00             |                                 |
| 6743.00    | 10.00      | 220.00     | 6676.00     | -597.75    | -501.57    | -572.26    | 0.00             | Brushy Canyon                   |
| 6800.00    | 10.00      | 220.00     | 6732.14     | -605.34    | -507.93    | -579.52    | 0.00             |                                 |
| 6844.36    | 10.00      | 220.00     | 6775.82     | -611.24    | -512.89    | -585.17    | 0.00             | Drop to Vertical                |
| 6900.00    | 8.89       | 220.00     | 6830.71     | -618.23    | -518.76    | -591.86    | 2.00             |                                 |
| 7000.00    | 6.89       | 220.00     | 6929.76     | -628.74    | -527.58    | -601.93    | 2.00             |                                 |
| 7100.00    | 4.89       | 220.00     | 7029.23     | -636.60    | -534.17    | -609.45    | 2.00             |                                 |
| 7200.00    | 2.89       | 220.00     | 7128.99     | -641.79    | -538.53    | -614.42    | 2.00             |                                 |
| 7300.00    | 0.89       | 220.00     | 7228.93     | -644.31    | -540.64    | -616.83    | 2.00             |                                 |
| 7344.36    | 0.00       | 220.00     | 7273.29     | -644.58    | -540.86    | -617.09    | 2.00             | Hold Vertical                   |
| 7400.00    | 0.00       | 359.83     | 7328.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 7500.00    | 0.00       | 359.83     | 7428.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 7600.00    | 0.00       | 359.83     | 7528.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 7700.00    | 0.00       | 359.83     | 7628.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 7800.00    | 0.00       | 359.83     | 7728.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 7900.00    | 0.00       | 359.83     | 7828.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 8000.00    | 0.00       | 359.83     | 7928.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 8100.00    | 0.00       | 359.83     | 8028.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 8200.00    | 0.00       | 359.83     | 8128.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 8300.00    | 0.00       | 359.83     | 8228.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 8378.07    | 0.00       | 359.83     | 8307.00     | -644.58    | -540.86    | -617.09    | 0.00             | 1st Bone Spring Lime            |
| 8400.00    | 0.00       | 359.83     | 8328.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 8500.00    | 0.00       | 359.83     | 8428.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 8600.00    | 0.00       | 359.83     | 8528.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 8700.00    | 0.00       | 359.83     | 8628.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 8800.00    | 0.00       | 359.83     | 8728.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 8900.00    | 0.00       | 359.83     | 8828.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 9000.00    | 0.00       | 359.83     | 8928.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 9100.00    | 0.00       | 359.83     | 9028.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 9200.00    | 0.00       | 359.83     | 9128.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 9300.00    | 0.00       | 359.83     | 9228.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 9400.00    | 0.00       | 359.83     | 9328.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 9403.07    | 0.00       | 359.83     | 9332.00     | -644.58    | -540.86    | -617.09    | 0.00             | Bone Spring 1st                 |
| 9500.00    | 0.00       | 359.83     | 9428.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 9600.00    | 0.00       | 359.83     | 9528.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 9606.07    | 0.00       | 359.83     | 9535.00     | -644.58    | -540.86    | -617.09    | 0.00             | Bone Spring 2nd                 |
| 9700.00    | 0.00       | 359.83     | 9628.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 9800.00    | 0.00       | 359.83     | 9728.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 9900.00    | 0.00       | 359.83     | 9828.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 10000.00   | 0.00       | 359.83     | 9928.93     | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 10100.00   | 0.00       | 359.83     | 10028.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 10200.00   | 0.00       | 359.83     | 10128.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 10300.00   | 0.00       | 359.83     | 10228.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 10400.00   | 0.00       | 359.83     | 10328.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 10500.00   | 0.00       | 359.83     | 10428.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 10504.07   | 0.00       | 359.83     | 10433.00    | -644.58    | -540.86    | -617.09    | 0.00             | 3rd Bone Spring Lime            |
| 10600.00   | 0.00       | 359.83     | 10528.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 10700.00   | 0.00       | 359.83     | 10628.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 10800.00   | 0.00       | 359.83     | 10728.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 10900.00   | 0.00       | 359.83     | 10828.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 11000.00   | 0.00       | 359.83     | 10928.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 11100.00   | 0.00       | 359.83     | 11028.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 11200.00   | 0.00       | 359.83     | 11128.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 11271.07   | 0.00       | 359.83     | 11200.00    | -644.58    | -540.86    | -617.09    | 0.00             | Bone Spring 3rd                 |
| 11300.00   | 0.00       | 359.83     | 11228.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 11400.00   | 0.00       | 359.83     | 11328.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 11500.00   | 0.00       | 359.83     | 11428.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 11600.00   | 0.00       | 359.83     | 11528.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 11695.07   | 0.00       | 359.83     | 11624.00    | -644.58    | -540.86    | -617.09    | 0.00             | Wolfcamp / Point of Penetration |
| 11700.00   | 0.00       | 359.83     | 11628.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 11800.00   | 0.00       | 359.83     | 11728.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 11900.00   | 0.00       | 359.83     | 11828.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 12000.00   | 0.00       | 359.83     | 11928.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 12100.00   | 0.00       | 359.83     | 12028.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 12200.00   | 0.00       | 359.83     | 12128.93    | -644.58    | -540.86    | -617.09    | 0.00             |                                 |
| 12224.13   | 0.00       | 359.83     | 12153.06    | -644.58    | -540.86    | -617.09    | 0.00             | KOP                             |
| 12300.00   | 7.59       | 359.83     | 12228.71    | -639.56    | -540.88    | -612.08    | 10.00            |                                 |
| 12400.00   | 17.59      | 359.83     | 12326.18    | -617.80    | -540.94    | -590.33    | 10.00            |                                 |



MULE 23-11 FED COM 822H



**Well:** MULE 23-11 FED COM 822H  
**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<br>(ft) | INC<br>(°) | AZI<br>(°) | TVD<br>(ft) | NS<br>(ft) | EW<br>(ft) | VS<br>(ft) | DLS<br>(°/100ft) | Comment       |
|------------|------------|------------|-------------|------------|------------|------------|------------------|---------------|
| 12500.00   | 27.59      | 359.83     | 12418.39    | -579.44    | -541.06    | -552.01    | 10.00            |               |
| 12600.00   | 37.59      | 359.83     | 12502.54    | -525.65    | -541.22    | -498.28    | 10.00            |               |
| 12700.00   | 47.59      | 359.83     | 12576.08    | -458.06    | -541.42    | -430.77    | 10.00            |               |
| 12800.00   | 57.59      | 359.83     | 12636.75    | -378.73    | -541.65    | -351.53    | 10.00            |               |
| 12900.00   | 67.59      | 359.83     | 12682.74    | -290.08    | -541.92    | -262.97    | 10.00            |               |
| 13000.00   | 77.59      | 359.83     | 12712.62    | -194.78    | -542.20    | -167.77    | 10.00            |               |
| 13100.00   | 87.59      | 359.83     | 12725.51    | -95.74     | -542.50    | -68.84     | 10.00            |               |
| 13128.37   | 90.42      | 359.83     | 12726.00    | -67.38     | -542.58    | -40.51     | 10.00            | Landing Point |
| 13200.00   | 90.42      | 359.83     | 12725.47    | 4.25       | -542.79    | 31.04      | 0.00             |               |
| 13300.00   | 90.42      | 359.83     | 12724.73    | 104.25     | -543.09    | 130.93     | 0.00             |               |
| 13400.00   | 90.42      | 359.83     | 12723.99    | 204.24     | -543.38    | 230.82     | 0.00             |               |
| 13500.00   | 90.42      | 359.83     | 12723.25    | 304.24     | -543.68    | 330.71     | 0.00             |               |
| 13600.00   | 90.42      | 359.83     | 12722.51    | 404.24     | -543.98    | 430.60     | 0.00             |               |
| 13700.00   | 90.42      | 359.83     | 12721.77    | 504.23     | -544.28    | 530.49     | 0.00             |               |
| 13800.00   | 90.42      | 359.83     | 12721.03    | 604.23     | -544.57    | 630.38     | 0.00             |               |
| 13900.00   | 90.42      | 359.83     | 12720.29    | 704.23     | -544.87    | 730.27     | 0.00             |               |
| 14000.00   | 90.42      | 359.83     | 12719.55    | 804.22     | -545.17    | 830.16     | 0.00             |               |
| 14100.00   | 90.42      | 359.83     | 12718.81    | 904.22     | -545.46    | 930.05     | 0.00             |               |
| 14200.00   | 90.42      | 359.83     | 12718.07    | 1004.22    | -545.76    | 1029.94    | 0.00             |               |
| 14300.00   | 90.42      | 359.83     | 12717.33    | 1104.21    | -546.06    | 1129.83    | 0.00             |               |
| 14400.00   | 90.42      | 359.83     | 12716.59    | 1204.21    | -546.36    | 1229.72    | 0.00             |               |
| 14500.00   | 90.42      | 359.83     | 12715.85    | 1304.21    | -546.65    | 1329.61    | 0.00             |               |
| 14600.00   | 90.42      | 359.83     | 12715.10    | 1404.20    | -546.95    | 1429.50    | 0.00             |               |
| 14700.00   | 90.42      | 359.83     | 12714.36    | 1504.20    | -547.25    | 1529.39    | 0.00             |               |
| 14800.00   | 90.42      | 359.83     | 12713.62    | 1604.20    | -547.55    | 1629.28    | 0.00             |               |
| 14900.00   | 90.42      | 359.83     | 12712.88    | 1704.19    | -547.84    | 1729.17    | 0.00             |               |
| 15000.00   | 90.42      | 359.83     | 12712.14    | 1804.19    | -548.14    | 1829.05    | 0.00             |               |
| 15100.00   | 90.42      | 359.83     | 12711.40    | 1904.19    | -548.44    | 1928.94    | 0.00             |               |
| 15200.00   | 90.42      | 359.83     | 12710.66    | 2004.19    | -548.73    | 2028.83    | 0.00             |               |
| 15300.00   | 90.42      | 359.83     | 12709.92    | 2104.18    | -549.03    | 2128.72    | 0.00             |               |
| 15400.00   | 90.42      | 359.83     | 12709.18    | 2204.18    | -549.33    | 2228.61    | 0.00             |               |
| 15500.00   | 90.42      | 359.83     | 12708.44    | 2304.18    | -549.63    | 2328.50    | 0.00             |               |
| 15600.00   | 90.42      | 359.83     | 12707.70    | 2404.17    | -549.92    | 2428.39    | 0.00             |               |
| 15700.00   | 90.42      | 359.83     | 12706.96    | 2504.17    | -550.22    | 2528.28    | 0.00             |               |
| 15800.00   | 90.42      | 359.83     | 12706.22    | 2604.17    | -550.52    | 2628.17    | 0.00             |               |
| 15900.00   | 90.42      | 359.83     | 12705.48    | 2704.16    | -550.81    | 2728.06    | 0.00             |               |
| 16000.00   | 90.42      | 359.83     | 12704.74    | 2804.16    | -551.11    | 2827.95    | 0.00             |               |
| 16100.00   | 90.42      | 359.83     | 12704.00    | 2904.16    | -551.41    | 2927.84    | 0.00             |               |
| 16200.00   | 90.42      | 359.83     | 12703.26    | 3004.15    | -551.71    | 3027.73    | 0.00             |               |
| 16300.00   | 90.42      | 359.83     | 12702.52    | 3104.15    | -552.00    | 3127.62    | 0.00             |               |
| 16400.00   | 90.42      | 359.83     | 12701.78    | 3204.15    | -552.30    | 3227.51    | 0.00             |               |
| 16500.00   | 90.42      | 359.83     | 12701.04    | 3304.14    | -552.60    | 3327.40    | 0.00             |               |
| 16600.00   | 90.42      | 359.83     | 12700.30    | 3404.14    | -552.90    | 3427.29    | 0.00             |               |
| 16700.00   | 90.42      | 359.83     | 12699.56    | 3504.14    | -553.19    | 3527.18    | 0.00             |               |
| 16800.00   | 90.42      | 359.83     | 12698.82    | 3604.13    | -553.49    | 3627.07    | 0.00             |               |
| 16900.00   | 90.42      | 359.83     | 12698.08    | 3704.13    | -553.79    | 3726.96    | 0.00             |               |
| 17000.00   | 90.42      | 359.83     | 12697.34    | 3804.13    | -554.08    | 3826.85    | 0.00             |               |
| 17100.00   | 90.42      | 359.83     | 12696.60    | 3904.12    | -554.38    | 3926.74    | 0.00             |               |
| 17200.00   | 90.42      | 359.83     | 12695.86    | 4004.12    | -554.68    | 4026.62    | 0.00             |               |
| 17300.00   | 90.42      | 359.83     | 12695.12    | 4104.12    | -554.98    | 4126.51    | 0.00             |               |
| 17400.00   | 90.42      | 359.83     | 12694.37    | 4204.12    | -555.27    | 4226.40    | 0.00             |               |
| 17500.00   | 90.42      | 359.83     | 12693.63    | 4304.11    | -555.57    | 4326.29    | 0.00             |               |
| 17600.00   | 90.42      | 359.83     | 12692.89    | 4404.11    | -555.87    | 4426.18    | 0.00             |               |
| 17700.00   | 90.42      | 359.83     | 12692.15    | 4504.11    | -556.16    | 4526.07    | 0.00             |               |
| 17800.00   | 90.42      | 359.83     | 12691.41    | 4604.10    | -556.46    | 4625.96    | 0.00             |               |
| 17900.00   | 90.42      | 359.83     | 12690.67    | 4704.10    | -556.76    | 4725.85    | 0.00             |               |
| 18000.00   | 90.42      | 359.83     | 12689.93    | 4804.10    | -557.06    | 4825.74    | 0.00             |               |
| 18100.00   | 90.42      | 359.83     | 12689.19    | 4904.09    | -557.35    | 4925.63    | 0.00             |               |
| 18200.00   | 90.42      | 359.83     | 12688.45    | 5004.09    | -557.65    | 5025.52    | 0.00             |               |
| 18300.00   | 90.42      | 359.83     | 12687.71    | 5104.09    | -557.95    | 5125.41    | 0.00             |               |
| 18400.00   | 90.42      | 359.83     | 12686.97    | 5204.08    | -558.25    | 5225.30    | 0.00             |               |
| 18500.00   | 90.42      | 359.83     | 12686.23    | 5304.08    | -558.54    | 5325.19    | 0.00             |               |
| 18600.00   | 90.42      | 359.83     | 12685.49    | 5404.08    | -558.84    | 5425.08    | 0.00             |               |
| 18700.00   | 90.42      | 359.83     | 12684.75    | 5504.07    | -559.14    | 5524.97    | 0.00             |               |
| 18800.00   | 90.42      | 359.83     | 12684.01    | 5604.07    | -559.43    | 5624.86    | 0.00             |               |
| 18900.00   | 90.42      | 359.83     | 12683.27    | 5704.07    | -559.73    | 5724.75    | 0.00             |               |
| 19000.00   | 90.42      | 359.83     | 12682.53    | 5804.06    | -560.03    | 5824.64    | 0.00             |               |
| 19100.00   | 90.42      | 359.83     | 12681.79    | 5904.06    | -560.33    | 5924.53    | 0.00             |               |
| 19200.00   | 90.42      | 359.83     | 12681.05    | 6004.06    | -560.62    | 6024.42    | 0.00             |               |
| 19300.00   | 90.42      | 359.83     | 12680.31    | 6104.05    | -560.92    | 6124.30    | 0.00             |               |

MULE 23-11 FED COM 822H



Well: MULE 23-11 FED COM 822H

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<br>(ft) | INC<br>(°) | AZI<br>(°) | TVD<br>(ft) | NS<br>(ft) | EW<br>(ft) | VS<br>(ft) | DLS<br>(°/100ft) | Comment |
|------------|------------|------------|-------------|------------|------------|------------|------------------|---------|
| 19400.00   | 90.42      | 359.83     | 12679.57    | 6204.05    | -561.22    | 6224.19    | 0.00             |         |
| 19500.00   | 90.42      | 359.83     | 12678.83    | 6304.05    | -561.51    | 6324.08    | 0.00             |         |
| 19600.00   | 90.42      | 359.83     | 12678.09    | 6404.05    | -561.81    | 6423.97    | 0.00             |         |
| 19700.00   | 90.42      | 359.83     | 12677.35    | 6504.04    | -562.11    | 6523.86    | 0.00             |         |
| 19800.00   | 90.42      | 359.83     | 12676.61    | 6604.04    | -562.41    | 6623.75    | 0.00             |         |
| 19900.00   | 90.42      | 359.83     | 12675.87    | 6704.04    | -562.70    | 6723.64    | 0.00             |         |
| 20000.00   | 90.42      | 359.83     | 12675.13    | 6804.03    | -563.00    | 6823.53    | 0.00             |         |
| 20100.00   | 90.42      | 359.83     | 12674.39    | 6904.03    | -563.30    | 6923.42    | 0.00             |         |
| 20200.00   | 90.42      | 359.83     | 12673.64    | 7004.03    | -563.60    | 7023.31    | 0.00             |         |
| 20300.00   | 90.42      | 359.83     | 12672.90    | 7104.02    | -563.89    | 7123.20    | 0.00             |         |
| 20400.00   | 90.42      | 359.83     | 12672.16    | 7204.02    | -564.19    | 7223.09    | 0.00             |         |
| 20500.00   | 90.42      | 359.83     | 12671.42    | 7304.02    | -564.49    | 7322.98    | 0.00             |         |
| 20600.00   | 90.42      | 359.83     | 12670.68    | 7404.01    | -564.78    | 7422.87    | 0.00             |         |
| 20700.00   | 90.42      | 359.83     | 12669.94    | 7504.01    | -565.08    | 7522.76    | 0.00             |         |
| 20800.00   | 90.42      | 359.83     | 12669.20    | 7604.01    | -565.38    | 7622.65    | 0.00             |         |
| 20900.00   | 90.42      | 359.83     | 12668.46    | 7704.00    | -565.68    | 7722.54    | 0.00             |         |
| 21000.00   | 90.42      | 359.83     | 12667.72    | 7804.00    | -565.97    | 7822.43    | 0.00             |         |
| 21100.00   | 90.42      | 359.83     | 12666.98    | 7904.00    | -566.27    | 7922.32    | 0.00             |         |
| 21200.00   | 90.42      | 359.83     | 12666.24    | 8003.99    | -566.57    | 8022.21    | 0.00             |         |
| 21300.00   | 90.42      | 359.83     | 12665.50    | 8103.99    | -566.86    | 8122.10    | 0.00             |         |
| 21400.00   | 90.42      | 359.83     | 12664.76    | 8203.99    | -567.16    | 8221.99    | 0.00             |         |
| 21500.00   | 90.42      | 359.83     | 12664.02    | 8303.98    | -567.46    | 8321.87    | 0.00             |         |
| 21600.00   | 90.42      | 359.83     | 12663.28    | 8403.98    | -567.76    | 8421.76    | 0.00             |         |
| 21700.00   | 90.42      | 359.83     | 12662.54    | 8503.98    | -568.05    | 8521.65    | 0.00             |         |
| 21800.00   | 90.42      | 359.83     | 12661.80    | 8603.98    | -568.35    | 8621.54    | 0.00             |         |
| 21900.00   | 90.42      | 359.83     | 12661.06    | 8703.97    | -568.65    | 8721.43    | 0.00             |         |
| 22000.00   | 90.42      | 359.83     | 12660.32    | 8803.97    | -568.95    | 8821.32    | 0.00             |         |
| 22100.00   | 90.42      | 359.83     | 12659.58    | 8903.97    | -569.24    | 8921.21    | 0.00             |         |
| 22200.00   | 90.42      | 359.83     | 12658.84    | 9003.96    | -569.54    | 9021.10    | 0.00             |         |
| 22300.00   | 90.42      | 359.83     | 12658.10    | 9103.96    | -569.84    | 9120.99    | 0.00             |         |
| 22400.00   | 90.42      | 359.83     | 12657.36    | 9203.96    | -570.13    | 9220.88    | 0.00             |         |
| 22500.00   | 90.42      | 359.83     | 12656.62    | 9303.95    | -570.43    | 9320.77    | 0.00             |         |
| 22600.00   | 90.42      | 359.83     | 12655.88    | 9403.95    | -570.73    | 9420.66    | 0.00             |         |
| 22700.00   | 90.42      | 359.83     | 12655.14    | 9503.95    | -571.03    | 9520.55    | 0.00             |         |
| 22800.00   | 90.42      | 359.83     | 12654.40    | 9603.94    | -571.32    | 9620.44    | 0.00             |         |
| 22900.00   | 90.42      | 359.83     | 12653.66    | 9703.94    | -571.62    | 9720.33    | 0.00             |         |
| 23000.00   | 90.42      | 359.83     | 12652.91    | 9803.94    | -571.92    | 9820.22    | 0.00             |         |
| 23100.00   | 90.42      | 359.83     | 12652.17    | 9903.93    | -572.22    | 9920.11    | 0.00             |         |
| 23200.00   | 90.42      | 359.83     | 12651.43    | 10003.93   | -572.51    | 10020.00   | 0.00             |         |
| 23300.00   | 90.42      | 359.83     | 12650.69    | 10103.93   | -572.81    | 10119.89   | 0.00             |         |
| 23400.00   | 90.42      | 359.83     | 12649.95    | 10203.92   | -573.11    | 10219.78   | 0.00             |         |
| 23500.00   | 90.42      | 359.83     | 12649.21    | 10303.92   | -573.40    | 10319.67   | 0.00             |         |
| 23600.00   | 90.42      | 359.83     | 12648.47    | 10403.92   | -573.70    | 10419.55   | 0.00             |         |
| 23700.00   | 90.42      | 359.83     | 12647.73    | 10503.91   | -574.00    | 10519.44   | 0.00             |         |
| 23800.00   | 90.42      | 359.83     | 12646.99    | 10603.91   | -574.30    | 10619.33   | 0.00             |         |
| 23900.00   | 90.42      | 359.83     | 12646.25    | 10703.91   | -574.59    | 10719.22   | 0.00             |         |
| 24000.00   | 90.42      | 359.83     | 12645.51    | 10803.91   | -574.89    | 10819.11   | 0.00             |         |
| 24100.00   | 90.42      | 359.83     | 12644.77    | 10903.90   | -575.19    | 10919.00   | 0.00             |         |
| 24200.00   | 90.42      | 359.83     | 12644.03    | 11003.90   | -575.48    | 11018.89   | 0.00             |         |
| 24300.00   | 90.42      | 359.83     | 12643.29    | 11103.90   | -575.78    | 11118.78   | 0.00             |         |
| 24400.00   | 90.42      | 359.83     | 12642.55    | 11203.89   | -576.08    | 11218.67   | 0.00             |         |
| 24500.00   | 90.42      | 359.83     | 12641.81    | 11303.89   | -576.38    | 11318.56   | 0.00             |         |
| 24600.00   | 90.42      | 359.83     | 12641.07    | 11403.89   | -576.67    | 11418.45   | 0.00             |         |
| 24700.00   | 90.42      | 359.83     | 12640.33    | 11503.88   | -576.97    | 11518.34   | 0.00             |         |
| 24797.32   | 90.42      | 359.83     | 12639.61    | 11601.20   | -577.26    | 11615.55   | 0.00             | exit    |
| 24800.00   | 90.42      | 359.83     | 12639.59    | 11603.88   | -577.27    | 11618.23   | 0.00             |         |
| 24877.32   | 90.42      | 359.83     | 12639.00    | 11681.20   | -577.44    | 11695.46   | 0.00             | BHL     |

MULE 23-11 FED COM 822H

**Well:** MULE 23-11 FED COM 822H

**County:** Eddy

**Wellbore:** Permit Plan

**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983

**Datum:** North American Datum 1927

**Ellipsoid:** Clarke 1866

**Zone:** 3001 - NM East (NAD83)

| MD   | INC | AZI | TVD  | NS   | EW   | VS   | DLS       | Comment |
|------|-----|-----|------|------|------|------|-----------|---------|
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (°/100ft) |         |

## MULE 23-11 FED COM 822H

**1. Geologic Formations**

|               |       |                              |     |
|---------------|-------|------------------------------|-----|
| TVD of target | 12640 | Pilot hole depth             | N/A |
| MD at TD:     | 24877 | Deepest expected fresh water |     |

**Basin**

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

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

## MULE 23-11 FED COM 822H

**2. Casing Program (Primary Design)**

| Hole Size | Csg. Size | Wt (PPF) | Grade | Conn | Casing Interval |         | Casing Interval |          |
|-----------|-----------|----------|-------|------|-----------------|---------|-----------------|----------|
|           |           |          |       |      | From (MD)       | To (MD) | From (TVD)      | To (TVD) |
| 13 1/2    | 10 3/4    | 40 1/2   | H40   | BTC  | 0               | 690     | 0               | 690      |
| 9 7/8     | 8 5/8     | 32       | P110  | TLW  | 0               | 11624   | 0               | 11624    |
| 7 7/8     | 5 1/2     | 17       | P110  | BTC  | 0               | 24877   | 0               | 12640    |

• 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.

If necessary, a top out consisting of 500 sacks of Class C cement will be executed as a contingency.

Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

| Casing     | # Sks | TOC      | Wt. ppg | Yld (ft3/sack) | Slurry Description                                               |
|------------|-------|----------|---------|----------------|------------------------------------------------------------------|
| Surface    | 288   | Surf     | 13.2    | 1.44           | Lead: Class C Cement + additives                                 |
| Int 1      | 490   | Surf     | 13.0    | 2.3            | 2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives |
|            | 566   | 6742     | 13.2    | 1.44           | Tail: Class H / C + additives                                    |
| Production | 117   | 10224.13 | 9       | 3.27           | Lead: Class H / C + additives                                    |
|            | 1675  | 12224.13 | 13.2    | 1.44           | Tail: Class H / C + additives                                    |

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

MULE 23-11 FED COM 822H

**4. Pressure Control Equipment (Three String Design)**

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

## MULE 23-11 FED COM 822H

**5. Mud Program (Three String Design)**

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

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

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

**6. Logging and Testing Procedures**

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

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

**7. Drilling Conditions**

| Condition                  | Specify what type and where? |
|----------------------------|------------------------------|
| BH pressure at deepest TVD | 6901                         |
| Abnormal temperature       | No                           |

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

Hydrogen Sulfide (H<sub>2</sub>S) monitors will be installed prior to drilling out the surface shoe. If H<sub>2</sub>S 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.

|   |                                 |
|---|---------------------------------|
| N | H <sub>2</sub> S is present     |
| Y | H <sub>2</sub> S 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



## MULE 23-11 FED COM 822H

from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

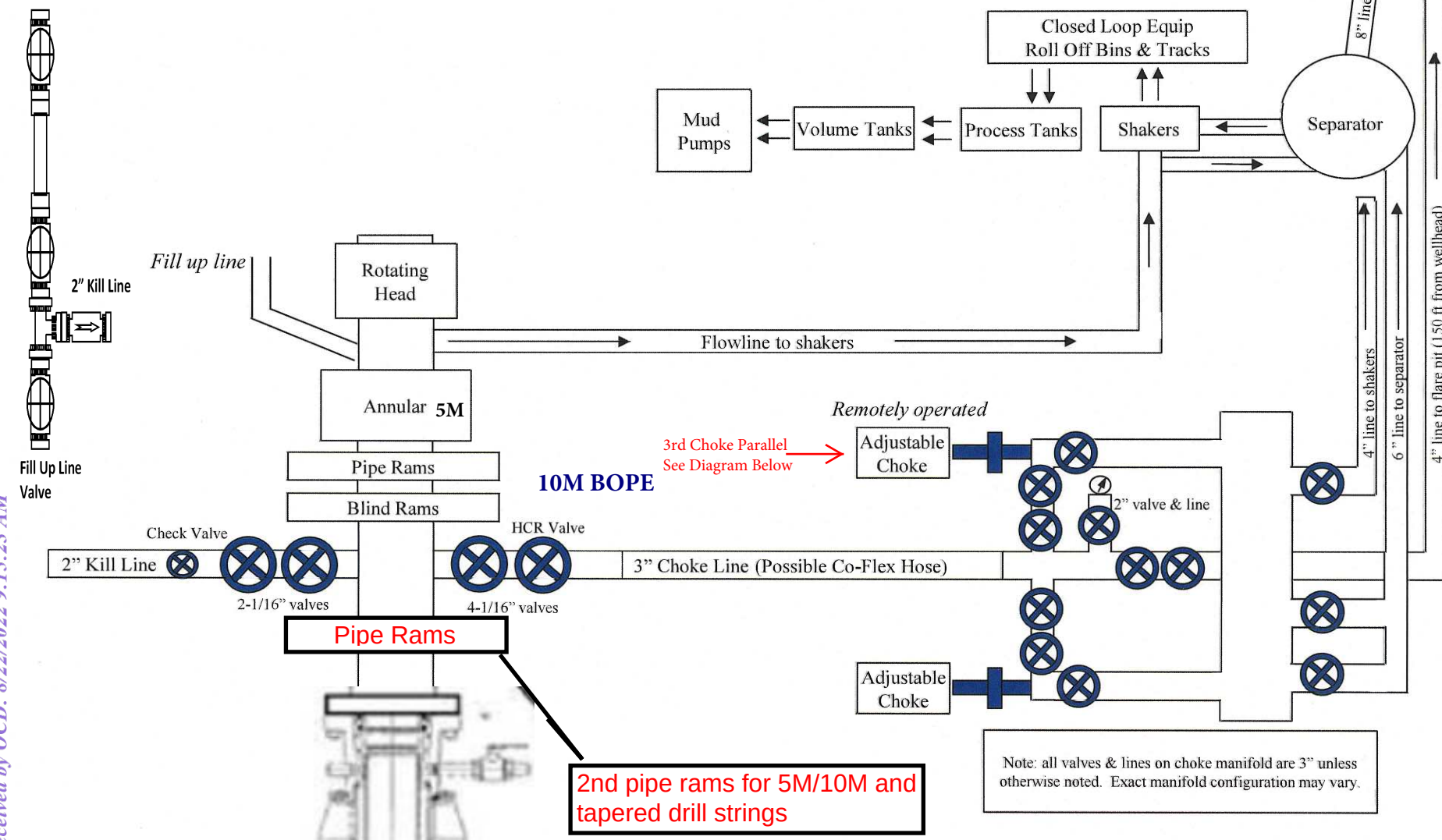
- 1 Spudder rig will move in and batch drill surface hole.
  - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all 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 nipped up and tested on the wellhead before drilling operations commences on each well.
  - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

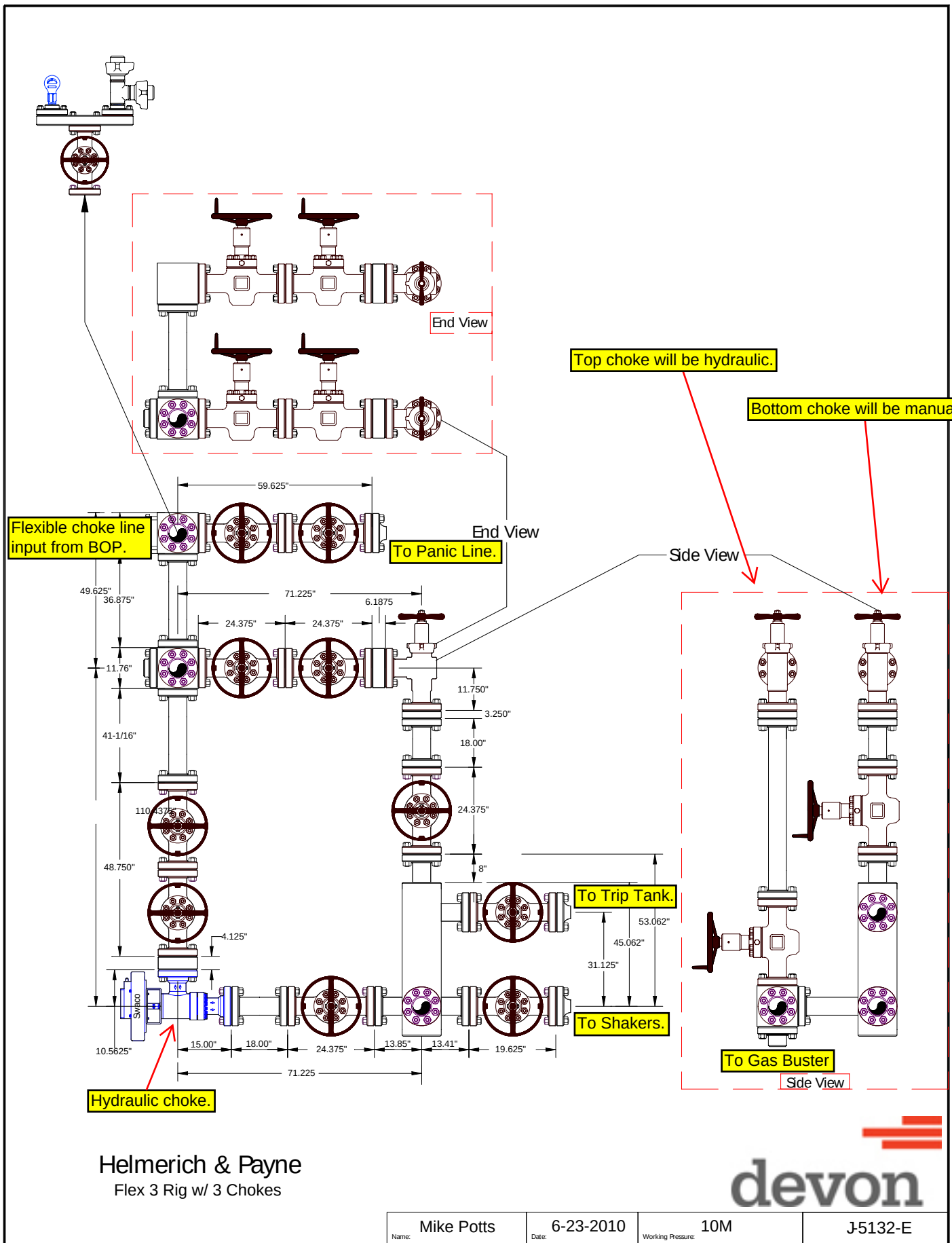
## Attachments

X Directional Plan  
           Other, describe

### 10M Remote Kill Line Schematic

Outside  
Remote Kill  
Line Valve





## Section 2 - Blowout Preventer Testing Procedure

### Variance Request

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

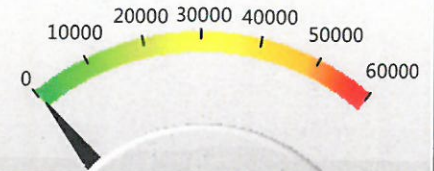
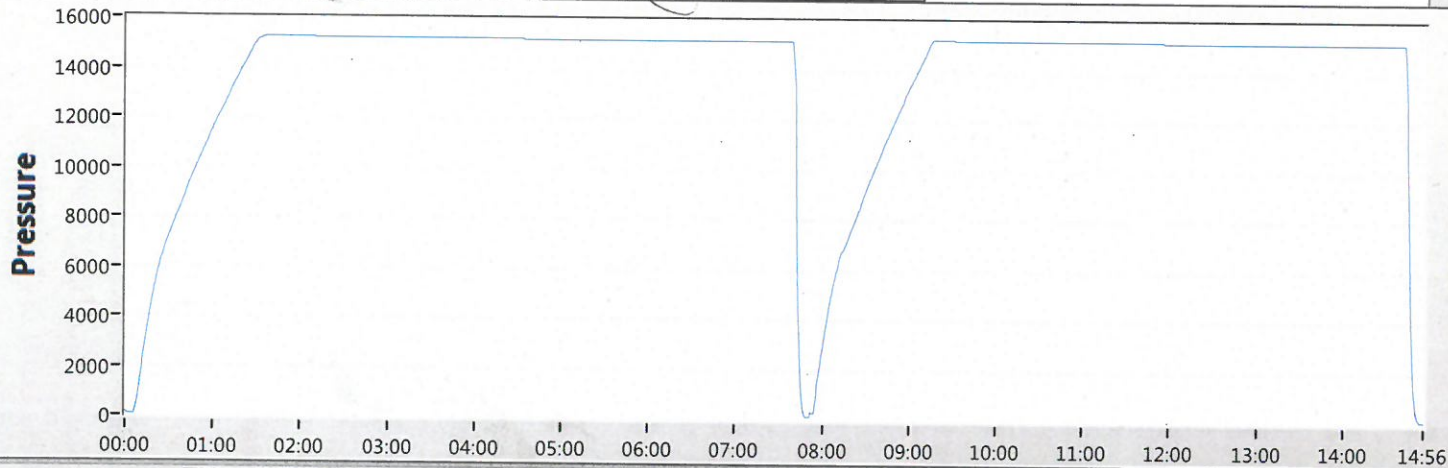
1. Well Control Response:
  1. Primary barrier remains fluid
  2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
    - a) Annular first
    - b) If annular were to not hold, Upper pipe rams second (which were tested on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

**Cactus**  
Wellhead

2-9-17  
E Bell

80.7 °F

15:49



50

Date 02-09-17

Tested By E.BELL

Transducer bay2

Transducer Serial 181504

Calibration Date 9/6/15

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



Start



Stop



Zero



Config



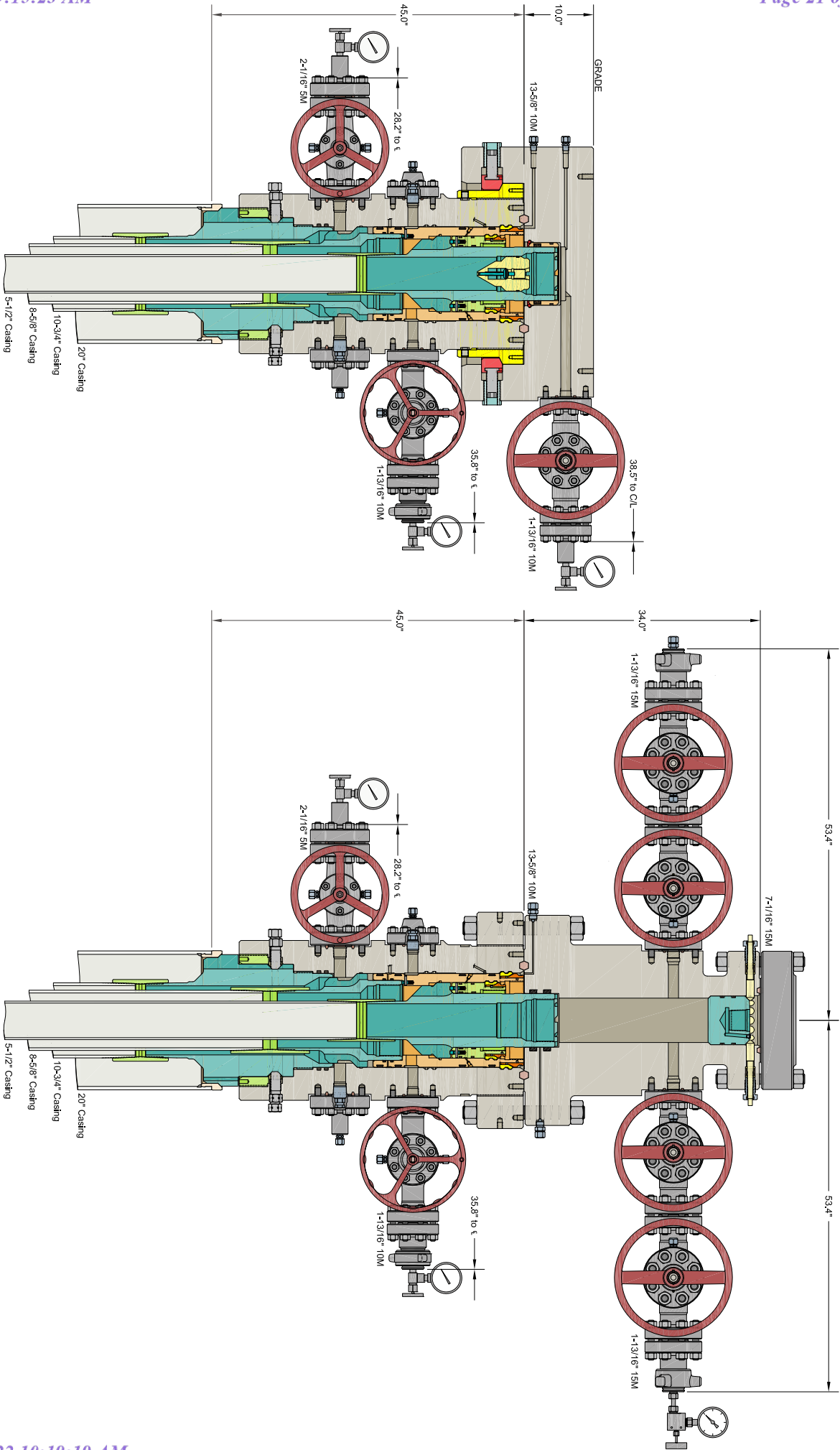
Save



Print

EXIT





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ALL DIMENSIONS APPROXIMATE

# CACTUS WELLHEAD LLC

DEVON ENERGY CORPORATION  
DELAWARE BASIN

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

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

**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**

COMMENTS  
  
Action 135464

COMMENTS

|                                                                                                       |                                                      |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID:<br>6137                                       |
|                                                                                                       | Action Number:<br>135464                             |
|                                                                                                       | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

COMMENTS

| Created By | Comment                                   | Comment Date |
|------------|-------------------------------------------|--------------|
| jagarcia   | Approved, John Garcia, Petroleum Engineer | 9/12/2022    |

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
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Phone:(505) 334-6178 Fax:(505) 334-6170  
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Phone:(505) 476-3470 Fax:(505) 476-3462

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**Oil Conservation Division**  
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CONDITIONS  
  
Action 135464

CONDITIONS

|                                                                                                       |                                                      |
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| Operator:<br>DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | OGRID:<br>6137                                       |
|                                                                                                       | Action Number:<br>135464                             |
|                                                                                                       | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| jagarcia   | None      | 9/12/2022      |