

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

General Information
Phone: (505) 629-6116

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

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

Form C-101
August 1, 2011

Permit 381057

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

| | | |
|--|--|-------------------------------|
| 1. Operator Name and Address DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102 | | 2. OGRID Number 6137 |
| 4. Property Code 337034 | | 3. API Number 30-015-56180 |
| 5. Property Name MIMOSA 17 16 STATE COM | | 6. Well No. 222H |

7. Surface Location

| | | | | | | | | | |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| F | 18 | 20S | 30E | | 1430 | N | 2196 | W | Eddy |

8. Proposed Bottom Hole Location

| | | | | | | | | | |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | N/S Line | Feet From | E/W Line | County |
| H | 16 | 20S | 30E | H | 2000 | N | 20 | E | Eddy |

9. Pool Information

| | |
|---------------------|-------|
| PARKWAY;BONE SPRING | 49622 |
|---------------------|-------|

Additional Well Information

| | | | | |
|---------------------------|-----------------------------|--|-------------------------|------------------------------------|
| 11. Work Type New Well | 12. Well Type OIL | 13. Cable/Rotary | 14. Lease Type State | 15. Ground Level Elevation 3276 |
| 16. Multiple N | 17. Proposed Depth 19782 | 18. Formation Bone Spring | 19. Contractor | 20. Spud Date 5/10/2025 |
| Depth to Ground water | | Distance from nearest fresh water well | | Distance to nearest surface water |

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

| Type | Hole Size | Casing Size | Casing Weight/ft | Setting Depth | Sacks of Cement | Estimated TOC |
|------|-----------|-------------|------------------|---------------|-----------------|---------------|
| Surf | 17.5 | 13.375 | 54.5 | 329 | 277 | 0 |
| Int1 | 12.25 | 10.75 | 45.5 | 1705 | 192 | 0 |
| Int2 | 9.875 | 8.625 | 32 | 3754 | 194 | 0 |
| Prod | 7.875 | 5.5 | 20 | 19782 | 1550 | 6953 |


Casing/Cement Program: Additional Comments

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

22. Proposed Blowout Prevention Program

| Type | Working Pressure | Test Pressure | Manufacturer |
|------------|------------------|---------------|--------------|
| Annular | 5000 | 2500 | |
| Blind | 5000 | 5000 | |
| Double Ram | 5000 | 5000 | |
| Annular | 5000 | 5000 | |
| Blind | 5000 | 5000 | |
| Double Ram | 5000 | 5000 | |

| | |
|--|--|
| 23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature: | OIL CONSERVATION DIVISION |
| Printed Name: Electronically filed by Jeff Walla Title: Supervisor Land | Approved By: Matthew Gomez Title: |
| Email Address: Jeff.Walla@dmv.com Date: 1/10/2025 | Approved Date: 2/13/2025 Expiration Date: 2/13/2027 |
| Phone: 575-748-9925 | Conditions of Approval Attached |

| | | | | | | | | | | | | | | |
|---|---------|--|-------|---------------------------------------|--|--|-------------|---------------------------------------|--------|--|--|--|--|--|
| C-102 Submit Electronically Via OCD Permitting | | State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION | | | | Submittal Type: <input checked="" type="checkbox"/> Initial Submittal <input type="checkbox"/> Amended Report <input type="checkbox"/> As Drilled | | Revised July 9, 2024 | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| WELL LOCATION INFORMATION | | | | | | | | | | | | | | |
| API Number 30-015-56180 | | Pool Code 49622 | | Pool Name PARKWAY; BONE SPRING | | | | | | | | | | |
| Property Code 337034 | | Property Name MIMOSA 17-16 STATE COM | | | | | | Well Number 222H | | | | | | |
| OGRID No. 6137 | | Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P. | | | | | | Ground Level Elevation 3276.2' | | | | | | |
| Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal | | | | | Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal | | | | | | | | | |
| Surface Location | | | | | | | | | | | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County | | | | | |
| F | 18 | 20-S | 30-E | N/A | 1430/N | 2196/W | 32.5767060° | -104.0127613° | EDDY | | | | | |
| Bottom Hole Location | | | | | | | | | | | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County | | | | | |
| H | 16 | 20-S | 30-E | N/A | 2000/N | 20/E | 32.5750701° | -103.9686136° | EDDY | | | | | |
| Dedicated Acres 320 | | Infill or Defining Well DEFINING | | Defining Well API | | Overlapping Spacing Unit (Y/N) NO | | Consolidation Code C | | | | | | |
| Order Numbers. | | | | | Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | |
| Kick Off Point (KOP) | | | | | | | | | | | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County | | | | | |
| E | 17 | 20-S | 30-E | N/A | 2001/n | 50/w | 32.57503017 | -104.00278744 | EDDY | | | | | |
| First Take Point (FTP) | | | | | | | | | | | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County | | | | | |
| E | 17 | 20-S | 30-E | N/A | 2000/N | 100/W | 32.5751305° | -104.0025418° | EDDY | | | | | |
| Last Take Point (LTP) | | | | | | | | | | | | | | |
| UL | Section | Township | Range | Lot | Ft. from N/S | Ft. from E/W | Latitude | Longitude | County | | | | | |
| H | 16 | 20-S | 30-E | N/A | 2000/N | 100/E | 32.5750706° | -103.9688732° | EDDY | | | | | |
| Unitized Area: <input type="checkbox"/> Area of Uniform Interest: <input type="checkbox"/> | | | | | Spacing Unit Type: <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical | | | Ground Floor Elevation: | | | | | | |
| OPERATOR CERTIFICATIONS: I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. <i>Shandee Thomas</i> 12/19/24 Signature Date SHANDEE THOMAS Printed Name SHANDEE.THOMAS@DVN.COM E-mail Address | | | | | SURVEYOR NOTES: 1. BEARINGS AND COORDINATES SHOWN ARE GRID BASED ON THE NEW MEXICO STATE PLANE EAST ZONE COORDINATE SYSTEM 3001, WITH CONVERGENCE ANGLE OF -0°09'37.47" AND BASED ON CONTROL POINT CP FITZ BOOSTER AT N:556917.441 E:633268.606. ORTHO:3349.52. DETERMINED BY AN OPUS SOLUTION ON JUNE 5TH, 2020. 2. DISTANCES DEPICTED HEREON ARE REPORTED AS GROUND DISTANCES IN US SURVEY FEET USING A COMBINED SCALE FACTOR OF 1.000237768 3. ELEVATIONS SHOWN OR LISTED ARE EXISTING GROUND ELEVATIONS. 4. KARST AREAS, 1/4 & 1/2 MILE POTASH BUFFERS, LEASE AREAS AND DRILL ISLANDS, IF SHOWN, WERE PROVIDED BY DEVON ENERGY AND NOT LOCATED ON THE GROUND AS A PART OF THIS SURVEY, LOCATIONS ARE APPROXIMATE. | | | | | SURVEYOR CERTIFICATIONS: I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. <div style="text-align: center;">  Signature and Seal of Professional Surveyor: 20250 John E. Allen 12/17/24 Certificate No. Name Date of Survey </div> | | | | |
| Page: 1 of 2 | | Drawn By: JEB | | Checked By: JEA | | Date Drawn: 12/17/2024 | | Revision: R0 | | | | | | |

Note: 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.

MIMOSA 17-16 STATE COM 222H**SURFACE HOLE LOCATION**

1430' FNL 2196' FWL
 SEC. 18, T20S, R30E
 EL: 3276.2
 N: 573685.08
 E: 640084.21
 LAT: 32.5767060°
 LON: -104.0127613°

KICK OFF POINT

2001' FNL - 50' FWL
 N: 573119
 E: 643183
 LAT: 32.5750
 LON: -104.0028

FIRST TAKE POINT (PPP 1)

2000' FNL - 100' FWL
 SEC. 17, T20S, R30E
 N: 573121.53
 E: 643233.93
 LAT: 32.5751305°
 LON: -104.0025418°

PPP 2

2027' FNL - 0' FEL
 SEC. 16, T20S, R30E
 N: 573127.57
 E: 648413.39
 LAT: 32.5751017°
 LON: -103.9857276°

PPP 3

2013' FNL - 2643' FEL
 SEC. 16, T20S, R30E
 N: 573130.66
 E: 651062.32
 LAT: 32.5750861°
 LON: -103.9771284°

LAST TAKE POINT
 2000' FNL - 100' FEL
 SEC. 16, T20S, R30E
 N: 573133.63
 E: 653605.27
 LAT: 32.5750706°
 LON: -103.9688732°

BOTTOM HOLE LOCATION

2000' FNL - 20' FEL
 SEC. 16, T20S, R30E
 N: 573133.72
 E: 653685.25
 LAT: 32.5750701°
 LON: -103.9686136°

LEGEND

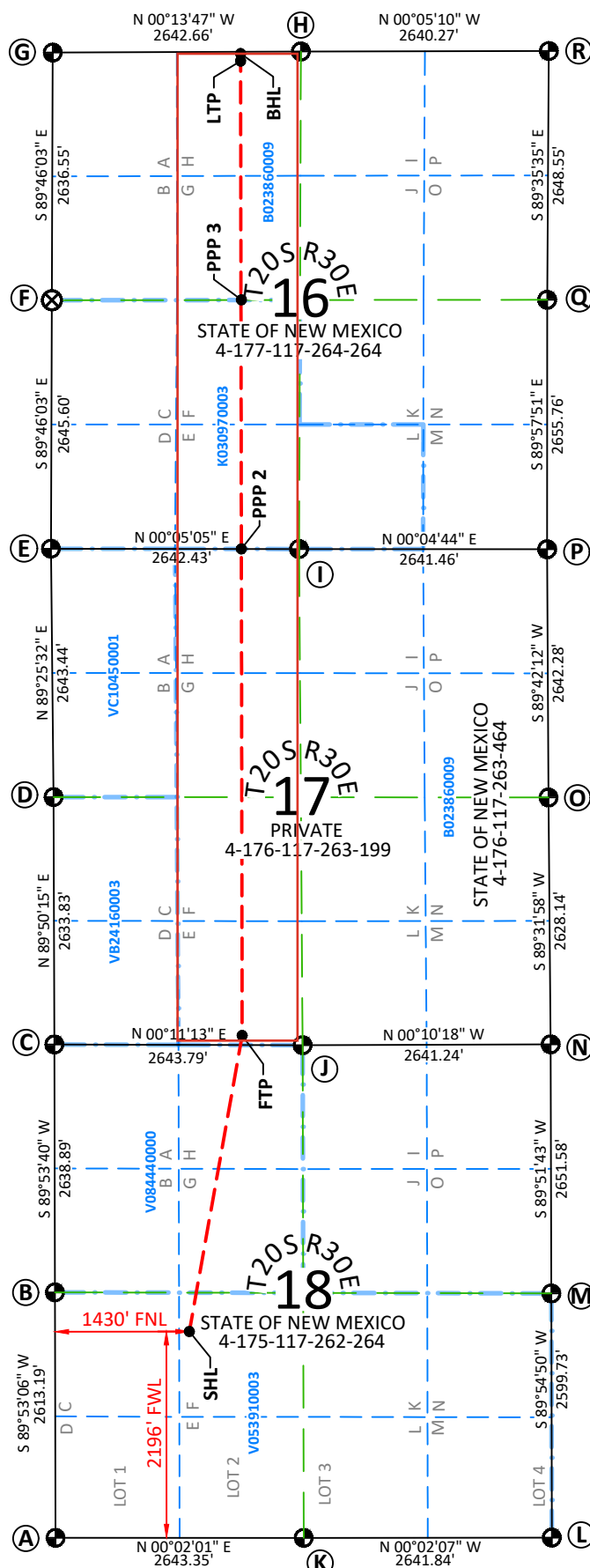
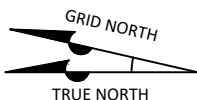
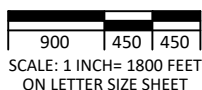
| | |
|--|-------------------|
| | SECTION LINE |
| | 1/4 SECTION LINE |
| | 1/16 SECTION LINE |
| | WELL PATH |
| | 1/4 MILE BUFFER |
| | 1/2 MILE BUFFER |
| | LEASE LINE |
| | LEASE ID NUMBER |
| | FOUND USGLO |
| | BRASS CAP '1916' |
| | CALC'D CORNER |

SECTION CORNER CALLOUTS

| | |
|----------------|--------------|
| A N: 575110.68 | E: 637889.65 |
| B N: 575115.93 | E: 640502.22 |
| C N: 575120.79 | E: 643140.48 |
| D N: 575128.27 | E: 645773.67 |
| E N: 575154.77 | E: 648416.35 |
| F N: 575144.03 | E: 651061.32 |
| G N: 575133.32 | E: 653697.23 |
| H N: 572491.31 | E: 653707.82 |
| I N: 572512.97 | E: 648412.45 |
| J N: 572477.65 | E: 643131.85 |
| K N: 572467.96 | E: 637888.10 |
| L N: 569826.75 | E: 637889.72 |
| M N: 569830.66 | E: 640488.83 |
| N N: 569837.04 | E: 643139.77 |
| O N: 569858.47 | E: 645767.20 |
| P N: 569872.14 | E: 648408.82 |
| Q N: 569870.48 | E: 651063.94 |
| R N: 569851.67 | E: 653711.79 |

SURVEYOR NOTES:

- BEARINGS AND COORDINATES SHOWN ARE GRID BASED ON THE NEW MEXICO STATE PLANE EAST ZONE COORDINATE SYSTEM 3001, WITH A CONVERGENCE ANGLE OF -0°09'37.47" AND BASED ON CONTROL POINT CP FITZ BOOSTER AT N:556917.441 E:633268.606. ORTHO:3349.52. DETERMINED BY AN OPUS SOLUTION ON JUNE 5TH, 2020.
- DISTANCES DEPICTED HEREON ARE REPORTED AS GROUND DISTANCES IN US SURVEY FEET USING A COMBINED SCALE FACTOR OF 1.000237768
- ELEVATIONS SHOWN OR LISTED ARE EXISTING GROUND ELEVATIONS.
- KARST AREAS, 1/4 & 1/2 MILE POTASH BUFFERS, LEASE AREAS AND DRILL ISLANDS, IF SHOWN, WERE PROVIDED BY DEVON ENERGY AND NOT LOCATED ON THE GROUND AS A PART OF THIS SURVEY, LOCATIONS ARE APPROXIMATE.



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

Form APD Conditions

Permit 381057

PERMIT CONDITIONS OF APPROVAL

| | |
|---|---------------------------------------|
| Operator Name and Address: DEVON ENERGY PRODUCTION COMPANY, LP [6137] 333 West Sheridan Ave. Oklahoma City, OK 73102 | API Number: 30-015-56180 |
| | Well: MIMOSA 17 16 STATE COM #222H |

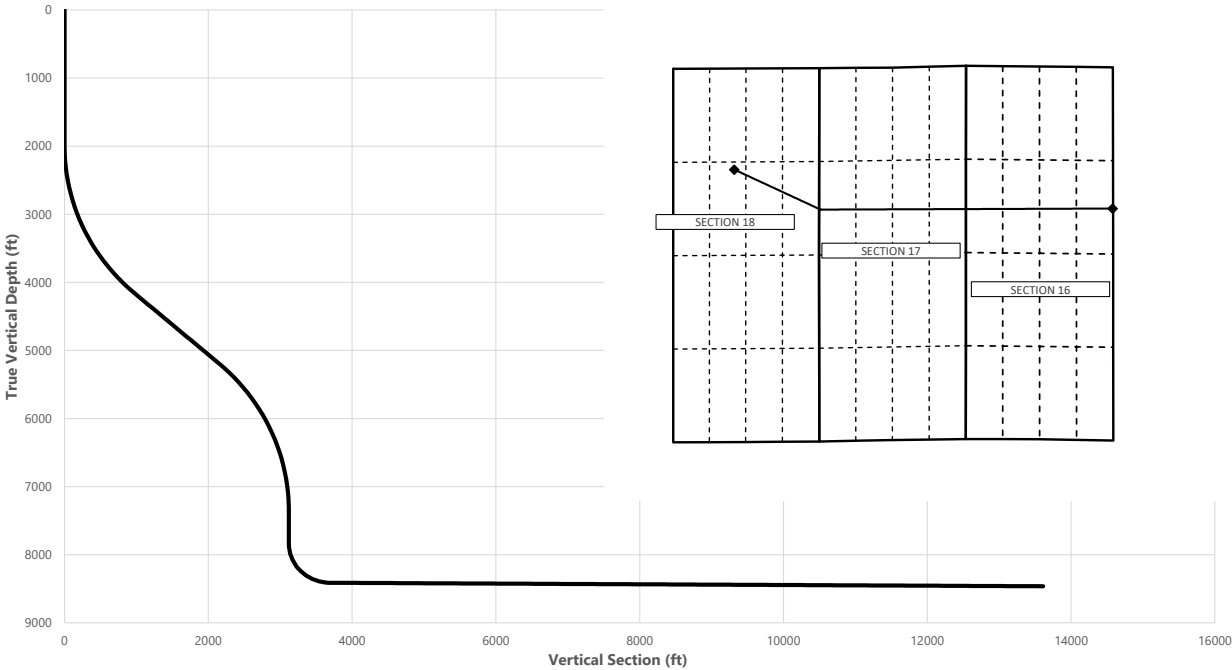
| OCD Reviewer | Condition |
|---------------|---|
| matthew.gomez | A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud. |
| matthew.gomez | Notify the OCD 24 hours prior to casing & cement. |
| matthew.gomez | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string. |
| matthew.gomez | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system. |
| matthew.gomez | Cement is required to circulate on both surface and intermediate1 strings of casing. |
| matthew.gomez | If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing. |
| matthew.gomez | File As Drilled C-102 and a directional Survey with C-104 completion packet. |
| matthew.gomez | Brine water shall not be used in the Capitan Reef. Only fresh water shall be utilized until the Capitan Reef is cased and cemented. |
| matthew.gomez | This well is within the Capitan Reef. The first intermediate casing string shall be set and cemented back to surface immediately above the Capitan Reef. The second intermediate string shall be set and cemented back to surface immediately below the base of the Capitan Reef. |
| matthew.gomez | Must comply with all R-111-Q requirements. |



Well: MIMOSA 17-16 STATE COM 222H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

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

| MD | INC | AZI | TVD | NS | EW | VS | DLS | Comment |
|----------|-------|--------|---------|---------|----------|----------|-----------|------------------|
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (°/100ft) | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | SHL |
| 2000.00 | 0.00 | 100.35 | 2000.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Tangent |
| 4450.00 | 49.00 | 100.35 | 4162.08 | -177.02 | 969.29 | 975.66 | 2.00 | Hold Tangent |
| 6013.35 | 49.00 | 100.35 | 5187.73 | -389.00 | 2129.96 | 2143.97 | 0.00 | Drop to Vertical |
| 8463.35 | 0.00 | 100.35 | 7349.82 | -566.02 | 3099.25 | 3119.63 | 2.00 | Hold Vertical |
| 8952.58 | 0.00 | 89.92 | 7839.05 | -566.02 | 3099.25 | 3119.63 | 0.00 | KOP |
| 9849.64 | 89.71 | 89.92 | 8412.00 | -565.23 | 3669.26 | 3689.15 | 10.00 | Landing Point |
| 19781.56 | 89.71 | 89.92 | 8463.00 | -551.36 | 13601.04 | 13612.21 | 0.00 | BHL |



| Key Depths | MD | TVD |
|--------------------------------------|----------|---------|
| | (ft) | (ft) |
| Rustler | 304.00 | 304.00 |
| Salt | 412.00 | 412.00 |
| Base of Salt | 1680.00 | 1680.00 |
| Capitan Reef Top | 2157.08 | 2157.00 |
| Delaware | 3824.95 | 3704.00 |
| Cherry Canyon | 5202.85 | 4656.00 |
| Brushy Canyon | 8374.52 | 7261.00 |
| Bone Spring 1st | 8521.53 | 7408.00 |
| Bone Spring 2nd / Point of Penetrati | 9327.78 | 8188.00 |
| exit | 19701.56 | 8462.60 |

SHL
KOP
Point of Penetration
Exit
BHL

| MD | TVD | Lat | Long | Section Footages |
|----------|---------|---------|-----------|--|
| (ft) | (ft) | (°) | (°) | |
| 0.00 | 0.00 | 32.5766 | -104.0128 | 1430' FNL, 2196' FWL of Sec 18 in T20S, R30E |
| 8952.58 | 7839.05 | 32.5750 | -104.0028 | 2001' FNL, 50' FWL of Sec 17 in T20S, R30E |
| 9327.78 | 8188.00 | 32.5751 | -104.0025 | 2000' FNL, 100' FWL of Sec 17 in T20S, R30E |
| 19701.56 | 8462.60 | 32.5751 | -103.9689 | 2000' FNL, 100' FEL of Sec 16 in T20S, R30E |
| 19781.56 | 8463.00 | 32.5750 | -103.9687 | 2000' FNL, 20' FEL of Sec 16 in T20S, R30E |

| | | | |
|-----|--------|--------|---------|
| | Y | X | MD |
| KOP | 573119 | 643183 | 8952.58 |

MIMOSA 17-16 STATE COM 222H



Well: MIMOSA 17-16 STATE COM 222H
 County: Eddy
 Wellbore: Permit Plan
 Design: Permit Plan #1

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

| MD (ft) | INC (°) | AZI (°) | TVD (ft) | NS (ft) | EW (ft) | VS (ft) | DLS (°/100ft) | Comment |
|------------|------------|------------|-------------|------------|------------|------------|------------------|------------------|
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | SHL |
| 100.00 | 0.00 | 100.35 | 100.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.00 | 0.00 | 100.35 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 300.00 | 0.00 | 100.35 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 304.00 | 0.00 | 100.35 | 304.00 | 0.00 | 0.00 | 0.00 | 0.00 | Rustler |
| 400.00 | 0.00 | 100.35 | 400.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 412.00 | 0.00 | 100.35 | 412.00 | 0.00 | 0.00 | 0.00 | 0.00 | Salt |
| 500.00 | 0.00 | 100.35 | 500.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.00 | 0.00 | 100.35 | 600.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 700.00 | 0.00 | 100.35 | 700.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 800.00 | 0.00 | 100.35 | 800.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 900.00 | 0.00 | 100.35 | 900.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1000.00 | 0.00 | 100.35 | 1000.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1100.00 | 0.00 | 100.35 | 1100.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1200.00 | 0.00 | 100.35 | 1200.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1300.00 | 0.00 | 100.35 | 1300.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1400.00 | 0.00 | 100.35 | 1400.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1500.00 | 0.00 | 100.35 | 1500.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1600.00 | 0.00 | 100.35 | 1600.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1680.00 | 0.00 | 100.35 | 1680.00 | 0.00 | 0.00 | 0.00 | 0.00 | Base of Salt |
| 1700.00 | 0.00 | 100.35 | 1700.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1800.00 | 0.00 | 100.35 | 1800.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1900.00 | 0.00 | 100.35 | 1900.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2000.00 | 0.00 | 100.35 | 2000.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Tangent |
| 2100.00 | 2.00 | 100.35 | 2099.98 | -0.31 | 1.72 | 1.73 | 2.00 | |
| 2157.08 | 3.14 | 100.35 | 2157.00 | -0.77 | 4.24 | 4.26 | 2.00 | Capitan Reef Top |
| 2200.00 | 4.00 | 100.35 | 2199.84 | -1.25 | 6.86 | 6.91 | 2.00 | |
| 2300.00 | 6.00 | 100.35 | 2299.45 | -2.82 | 15.44 | 15.54 | 2.00 | |
| 2400.00 | 8.00 | 100.35 | 2398.70 | -5.01 | 27.43 | 27.61 | 2.00 | |
| 2500.00 | 10.00 | 100.35 | 2497.47 | -7.82 | 42.81 | 43.10 | 2.00 | |
| 2600.00 | 12.00 | 100.35 | 2595.62 | -11.25 | 61.58 | 61.99 | 2.00 | |
| 2700.00 | 14.00 | 100.35 | 2693.06 | -15.29 | 83.71 | 84.26 | 2.00 | |
| 2800.00 | 16.00 | 100.35 | 2789.64 | -19.94 | 109.17 | 109.89 | 2.00 | |
| 2900.00 | 18.00 | 100.35 | 2885.27 | -25.19 | 137.93 | 138.84 | 2.00 | |
| 3000.00 | 20.00 | 100.35 | 2979.82 | -31.04 | 169.96 | 171.07 | 2.00 | |
| 3100.00 | 22.00 | 100.35 | 3073.17 | -37.48 | 205.21 | 206.56 | 2.00 | |
| 3200.00 | 24.00 | 100.35 | 3165.21 | -44.50 | 243.64 | 245.25 | 2.00 | |
| 3300.00 | 26.00 | 100.35 | 3255.84 | -52.09 | 285.22 | 287.09 | 2.00 | |
| 3400.00 | 28.00 | 100.35 | 3344.94 | -60.25 | 329.87 | 332.04 | 2.00 | |
| 3500.00 | 30.00 | 100.35 | 3432.39 | -68.95 | 377.56 | 380.05 | 2.00 | |
| 3600.00 | 32.00 | 100.35 | 3518.11 | -78.21 | 428.23 | 431.04 | 2.00 | |
| 3700.00 | 34.00 | 100.35 | 3601.97 | -87.99 | 481.80 | 484.97 | 2.00 | |
| 3800.00 | 36.00 | 100.35 | 3683.88 | -98.30 | 538.22 | 541.76 | 2.00 | |
| 3824.95 | 36.50 | 100.35 | 3704.00 | -100.95 | 552.73 | 556.37 | 2.00 | Delaware |
| 3900.00 | 38.00 | 100.35 | 3763.74 | -109.11 | 597.42 | 601.35 | 2.00 | |
| 4000.00 | 40.00 | 100.35 | 3841.45 | -120.41 | 659.33 | 663.66 | 2.00 | |
| 4100.00 | 42.00 | 100.35 | 3916.92 | -132.20 | 723.86 | 728.62 | 2.00 | |
| 4200.00 | 44.00 | 100.35 | 3990.05 | -144.45 | 790.95 | 796.15 | 2.00 | |
| 4300.00 | 46.00 | 100.35 | 4060.76 | -157.15 | 860.51 | 866.17 | 2.00 | |
| 4400.00 | 48.00 | 100.35 | 4128.95 | -170.29 | 932.45 | 938.58 | 2.00 | |
| 4450.00 | 49.00 | 100.35 | 4162.08 | -177.02 | 969.29 | 975.66 | 2.00 | Hold Tangent |
| 4500.00 | 49.00 | 100.35 | 4194.89 | -183.80 | 1006.41 | 1013.03 | 0.00 | |
| 4600.00 | 49.00 | 100.35 | 4260.49 | -197.36 | 1080.65 | 1087.76 | 0.00 | |
| 4700.00 | 49.00 | 100.35 | 4326.10 | -210.92 | 1154.89 | 1162.49 | 0.00 | |
| 4800.00 | 49.00 | 100.35 | 4391.70 | -224.48 | 1229.14 | 1237.22 | 0.00 | |
| 4900.00 | 49.00 | 100.35 | 4457.31 | -238.04 | 1303.38 | 1311.95 | 0.00 | |
| 5000.00 | 49.00 | 100.35 | 4522.92 | -251.60 | 1377.62 | 1386.68 | 0.00 | |
| 5100.00 | 49.00 | 100.35 | 4588.52 | -265.16 | 1451.86 | 1461.41 | 0.00 | |
| 5200.00 | 49.00 | 100.35 | 4654.13 | -278.72 | 1526.11 | 1536.14 | 0.00 | |
| 5202.85 | 49.00 | 100.35 | 4656.00 | -279.10 | 1528.23 | 1538.28 | 0.00 | Cherry Canyon |
| 5300.00 | 49.00 | 100.35 | 4719.73 | -292.27 | 1600.35 | 1610.88 | 0.00 | |
| 5400.00 | 49.00 | 100.35 | 4785.34 | -305.83 | 1674.59 | 1685.61 | 0.00 | |
| 5500.00 | 49.00 | 100.35 | 4850.95 | -319.39 | 1748.84 | 1760.34 | 0.00 | |
| 5600.00 | 49.00 | 100.35 | 4916.55 | -332.95 | 1823.08 | 1835.07 | 0.00 | |
| 5700.00 | 49.00 | 100.35 | 4982.16 | -346.51 | 1897.32 | 1909.80 | 0.00 | |
| 5800.00 | 49.00 | 100.35 | 5047.76 | -360.07 | 1971.57 | 1984.53 | 0.00 | |
| 5900.00 | 49.00 | 100.35 | 5113.37 | -373.63 | 2045.81 | 2059.26 | 0.00 | |
| 6000.00 | 49.00 | 100.35 | 5178.98 | -387.19 | 2120.05 | 2133.99 | 0.00 | |
| 6013.35 | 49.00 | 100.35 | 5187.73 | -389.00 | 2129.96 | 2143.97 | 0.00 | Drop to Vertical |
| 6100.00 | 47.27 | 100.35 | 5245.56 | -400.59 | 2193.44 | 2207.86 | 2.00 | |

MIMOSA 17-16 STATE COM 222H



Well: MIMOSA 17-16 STATE COM 222H
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 |
|------------|------------|------------|-------------|------------|------------|------------|------------------|--|
| 6200.00 | 45.27 | 100.35 | 5314.69 | -413.57 | 2264.52 | 2279.41 | 2.00 | |
| 6300.00 | 43.27 | 100.35 | 5386.29 | -426.11 | 2333.18 | 2348.52 | 2.00 | |
| 6400.00 | 41.27 | 100.35 | 5460.29 | -438.20 | 2399.34 | 2415.12 | 2.00 | |
| 6500.00 | 39.27 | 100.35 | 5536.59 | -449.81 | 2462.92 | 2479.12 | 2.00 | |
| 6600.00 | 37.27 | 100.35 | 5615.10 | -460.93 | 2523.84 | 2540.44 | 2.00 | |
| 6700.00 | 35.27 | 100.35 | 5695.72 | -471.56 | 2582.03 | 2599.01 | 2.00 | |
| 6800.00 | 33.27 | 100.35 | 5778.36 | -481.68 | 2637.42 | 2654.76 | 2.00 | |
| 6900.00 | 31.27 | 100.35 | 5862.92 | -491.27 | 2689.93 | 2707.62 | 2.00 | |
| 7000.00 | 29.27 | 100.35 | 5949.28 | -500.32 | 2739.51 | 2757.53 | 2.00 | |
| 7100.00 | 27.27 | 100.35 | 6037.35 | -508.83 | 2786.10 | 2804.42 | 2.00 | |
| 7200.00 | 25.27 | 100.35 | 6127.02 | -516.78 | 2829.63 | 2848.24 | 2.00 | |
| 7300.00 | 23.27 | 100.35 | 6218.18 | -524.16 | 2870.06 | 2888.93 | 2.00 | |
| 7400.00 | 21.27 | 100.35 | 6310.72 | -530.97 | 2907.33 | 2926.45 | 2.00 | |
| 7500.00 | 19.27 | 100.35 | 6404.52 | -537.19 | 2941.41 | 2960.75 | 2.00 | |
| 7600.00 | 17.27 | 100.35 | 6499.48 | -542.83 | 2972.24 | 2991.79 | 2.00 | |
| 7700.00 | 15.27 | 100.35 | 6595.47 | -547.86 | 2999.79 | 3019.52 | 2.00 | |
| 7800.00 | 13.27 | 100.35 | 6692.38 | -552.29 | 3024.04 | 3043.92 | 2.00 | |
| 7900.00 | 11.27 | 100.35 | 6790.09 | -556.10 | 3044.94 | 3064.96 | 2.00 | |
| 8000.00 | 9.27 | 100.35 | 6888.49 | -559.30 | 3062.47 | 3082.61 | 2.00 | |
| 8100.00 | 7.27 | 100.35 | 6987.44 | -561.89 | 3076.61 | 3096.85 | 2.00 | |
| 8200.00 | 5.27 | 100.35 | 7086.84 | -563.85 | 3087.35 | 3107.65 | 2.00 | |
| 8300.00 | 3.27 | 100.35 | 7186.56 | -565.19 | 3094.67 | 3115.02 | 2.00 | |
| 8374.52 | 1.78 | 100.35 | 7261.00 | -565.77 | 3097.89 | 3118.27 | 2.00 | Brushy Canyon |
| 8400.00 | 1.27 | 100.35 | 7286.47 | -565.90 | 3098.56 | 3118.94 | 2.00 | |
| 8463.35 | 0.00 | 100.35 | 7349.82 | -566.02 | 3099.25 | 3119.63 | 2.00 | Hold Vertical |
| 8500.00 | 0.00 | 89.92 | 7386.47 | -566.02 | 3099.25 | 3119.63 | 0.00 | |
| 8521.53 | 0.00 | 89.92 | 7408.00 | -566.02 | 3099.25 | 3119.63 | 0.00 | Bone Spring 1st |
| 8600.00 | 0.00 | 89.92 | 7486.47 | -566.02 | 3099.25 | 3119.63 | 0.00 | |
| 8700.00 | 0.00 | 89.92 | 7586.47 | -566.02 | 3099.25 | 3119.63 | 0.00 | |
| 8800.00 | 0.00 | 89.92 | 7686.47 | -566.02 | 3099.25 | 3119.63 | 0.00 | |
| 8900.00 | 0.00 | 89.92 | 7786.47 | -566.02 | 3099.25 | 3119.63 | 0.00 | |
| 8952.58 | 0.00 | 89.92 | 7839.05 | -566.02 | 3099.25 | 3119.63 | 0.00 | KOP |
| 9000.00 | 4.74 | 89.92 | 7886.41 | -566.02 | 3101.21 | 3121.59 | 10.00 | |
| 9100.00 | 14.74 | 89.92 | 7984.85 | -566.00 | 3118.11 | 3138.48 | 10.00 | |
| 9200.00 | 24.74 | 89.92 | 8078.85 | -565.95 | 3151.85 | 3172.18 | 10.00 | |
| 9300.00 | 34.74 | 89.92 | 8165.57 | -565.88 | 3201.39 | 3221.68 | 10.00 | |
| 9327.78 | 37.52 | 89.92 | 8188.00 | -565.86 | 3217.77 | 3238.05 | 10.00 | Bone Spring 2nd / Point of Penetration |
| 9400.00 | 44.74 | 89.92 | 8242.36 | -565.79 | 3265.24 | 3285.48 | 10.00 | |
| 9500.00 | 54.74 | 89.92 | 8306.90 | -565.68 | 3341.46 | 3361.63 | 10.00 | |
| 9600.00 | 64.74 | 89.92 | 8357.23 | -565.56 | 3427.73 | 3447.82 | 10.00 | |
| 9700.00 | 74.74 | 89.92 | 8391.81 | -565.43 | 3521.42 | 3541.43 | 10.00 | |
| 9800.00 | 84.74 | 89.92 | 8409.60 | -565.30 | 3619.70 | 3639.63 | 10.00 | |
| 9849.64 | 89.71 | 89.92 | 8412.00 | -565.23 | 3669.26 | 3689.15 | 10.00 | Landing Point |
| 9900.00 | 89.71 | 89.92 | 8412.26 | -565.16 | 3719.62 | 3739.46 | 0.00 | |
| 10000.00 | 89.71 | 89.92 | 8412.77 | -565.02 | 3819.62 | 3839.37 | 0.00 | |
| 10100.00 | 89.71 | 89.92 | 8413.29 | -564.88 | 3919.62 | 3939.29 | 0.00 | |
| 10200.00 | 89.71 | 89.92 | 8413.80 | -564.74 | 4019.62 | 4039.20 | 0.00 | |
| 10300.00 | 89.71 | 89.92 | 8414.31 | -564.60 | 4119.62 | 4139.11 | 0.00 | |
| 10400.00 | 89.71 | 89.92 | 8414.83 | -564.46 | 4219.62 | 4239.02 | 0.00 | |
| 10500.00 | 89.71 | 89.92 | 8415.34 | -564.32 | 4319.62 | 4338.93 | 0.00 | |
| 10600.00 | 89.71 | 89.92 | 8415.85 | -564.18 | 4419.61 | 4438.84 | 0.00 | |
| 10700.00 | 89.71 | 89.92 | 8416.37 | -564.04 | 4519.61 | 4538.75 | 0.00 | |
| 10800.00 | 89.71 | 89.92 | 8416.88 | -563.90 | 4619.61 | 4638.66 | 0.00 | |
| 10900.00 | 89.71 | 89.92 | 8417.39 | -563.76 | 4719.61 | 4738.57 | 0.00 | |
| 11000.00 | 89.71 | 89.92 | 8417.91 | -563.62 | 4819.61 | 4838.48 | 0.00 | |
| 11100.00 | 89.71 | 89.92 | 8418.42 | -563.48 | 4919.61 | 4938.39 | 0.00 | |
| 11200.00 | 89.71 | 89.92 | 8418.94 | -563.34 | 5019.61 | 5038.30 | 0.00 | |
| 11300.00 | 89.71 | 89.92 | 8419.45 | -563.20 | 5119.60 | 5138.22 | 0.00 | |
| 11400.00 | 89.71 | 89.92 | 8419.96 | -563.06 | 5219.60 | 5238.13 | 0.00 | |
| 11500.00 | 89.71 | 89.92 | 8420.48 | -562.92 | 5319.60 | 5338.04 | 0.00 | |
| 11600.00 | 89.71 | 89.92 | 8420.99 | -562.78 | 5419.60 | 5437.95 | 0.00 | |
| 11700.00 | 89.71 | 89.92 | 8421.50 | -562.64 | 5519.60 | 5537.86 | 0.00 | |
| 11800.00 | 89.71 | 89.92 | 8422.02 | -562.50 | 5619.60 | 5637.77 | 0.00 | |
| 11900.00 | 89.71 | 89.92 | 8422.53 | -562.36 | 5719.60 | 5737.68 | 0.00 | |
| 12000.00 | 89.71 | 89.92 | 8423.04 | -562.22 | 5819.59 | 5837.59 | 0.00 | |
| 12100.00 | 89.71 | 89.92 | 8423.56 | -562.08 | 5919.59 | 5937.50 | 0.00 | |
| 12200.00 | 89.71 | 89.92 | 8424.07 | -561.94 | 6019.59 | 6037.41 | 0.00 | |
| 12300.00 | 89.71 | 89.92 | 8424.59 | -561.80 | 6119.59 | 6137.32 | 0.00 | |
| 12400.00 | 89.71 | 89.92 | 8425.10 | -561.66 | 6219.59 | 6237.23 | 0.00 | |
| 12500.00 | 89.71 | 89.92 | 8425.61 | -561.52 | 6319.59 | 6337.15 | 0.00 | |

MIMOSA 17-16 STATE COM 222H



Well: MIMOSA 17-16 STATE COM 222H
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 |
|------------|------------|------------|-------------|------------|------------|------------|------------------|---------|
| 12600.00 | 89.71 | 89.92 | 8426.13 | -561.38 | 6419.59 | 6437.06 | 0.00 | |
| 12700.00 | 89.71 | 89.92 | 8426.64 | -561.24 | 6519.58 | 6536.97 | 0.00 | |
| 12800.00 | 89.71 | 89.92 | 8427.15 | -561.10 | 6619.58 | 6636.88 | 0.00 | |
| 12900.00 | 89.71 | 89.92 | 8427.67 | -560.96 | 6719.58 | 6736.79 | 0.00 | |
| 13000.00 | 89.71 | 89.92 | 8428.18 | -560.82 | 6819.58 | 6836.70 | 0.00 | |
| 13100.00 | 89.71 | 89.92 | 8428.69 | -560.68 | 6919.58 | 6936.61 | 0.00 | |
| 13200.00 | 89.71 | 89.92 | 8429.21 | -560.55 | 7019.58 | 7036.52 | 0.00 | |
| 13300.00 | 89.71 | 89.92 | 8429.72 | -560.41 | 7119.58 | 7136.43 | 0.00 | |
| 13400.00 | 89.71 | 89.92 | 8430.24 | -560.27 | 7219.57 | 7236.34 | 0.00 | |
| 13500.00 | 89.71 | 89.92 | 8430.75 | -560.13 | 7319.57 | 7336.25 | 0.00 | |
| 13600.00 | 89.71 | 89.92 | 8431.26 | -559.99 | 7419.57 | 7436.17 | 0.00 | |
| 13700.00 | 89.71 | 89.92 | 8431.78 | -559.85 | 7519.57 | 7536.08 | 0.00 | |
| 13800.00 | 89.71 | 89.92 | 8432.29 | -559.71 | 7619.57 | 7635.99 | 0.00 | |
| 13900.00 | 89.71 | 89.92 | 8432.80 | -559.57 | 7719.57 | 7735.90 | 0.00 | |
| 14000.00 | 89.71 | 89.92 | 8433.32 | -559.43 | 7819.57 | 7835.81 | 0.00 | |
| 14100.00 | 89.71 | 89.92 | 8433.83 | -559.29 | 7919.56 | 7935.72 | 0.00 | |
| 14200.00 | 89.71 | 89.92 | 8434.34 | -559.15 | 8019.56 | 8035.63 | 0.00 | |
| 14300.00 | 89.71 | 89.92 | 8434.86 | -559.01 | 8119.56 | 8135.54 | 0.00 | |
| 14400.00 | 89.71 | 89.92 | 8435.37 | -558.87 | 8219.56 | 8235.45 | 0.00 | |
| 14500.00 | 89.71 | 89.92 | 8435.89 | -558.73 | 8319.56 | 8335.36 | 0.00 | |
| 14600.00 | 89.71 | 89.92 | 8436.40 | -558.59 | 8419.56 | 8435.27 | 0.00 | |
| 14700.00 | 89.71 | 89.92 | 8436.91 | -558.45 | 8519.56 | 8535.18 | 0.00 | |
| 14800.00 | 89.71 | 89.92 | 8437.43 | -558.31 | 8619.55 | 8635.10 | 0.00 | |
| 14900.00 | 89.71 | 89.92 | 8437.94 | -558.17 | 8719.55 | 8735.01 | 0.00 | |
| 15000.00 | 89.71 | 89.92 | 8438.45 | -558.03 | 8819.55 | 8834.92 | 0.00 | |
| 15100.00 | 89.71 | 89.92 | 8438.97 | -557.89 | 8919.55 | 8934.83 | 0.00 | |
| 15200.00 | 89.71 | 89.92 | 8439.48 | -557.75 | 9019.55 | 9034.74 | 0.00 | |
| 15300.00 | 89.71 | 89.92 | 8439.99 | -557.61 | 9119.55 | 9134.65 | 0.00 | |
| 15400.00 | 89.71 | 89.92 | 8440.51 | -557.47 | 9219.55 | 9234.56 | 0.00 | |
| 15500.00 | 89.71 | 89.92 | 8441.02 | -557.33 | 9319.54 | 9334.47 | 0.00 | |
| 15600.00 | 89.71 | 89.92 | 8441.54 | -557.19 | 9419.54 | 9434.38 | 0.00 | |
| 15700.00 | 89.71 | 89.92 | 8442.05 | -557.05 | 9519.54 | 9534.29 | 0.00 | |
| 15800.00 | 89.71 | 89.92 | 8442.56 | -556.91 | 9619.54 | 9634.20 | 0.00 | |
| 15900.00 | 89.71 | 89.92 | 8443.08 | -556.77 | 9719.54 | 9734.11 | 0.00 | |
| 16000.00 | 89.71 | 89.92 | 8443.59 | -556.63 | 9819.54 | 9834.03 | 0.00 | |
| 16100.00 | 89.71 | 89.92 | 8444.10 | -556.49 | 9919.54 | 9933.94 | 0.00 | |
| 16200.00 | 89.71 | 89.92 | 8444.62 | -556.35 | 10019.54 | 10033.85 | 0.00 | |
| 16300.00 | 89.71 | 89.92 | 8445.13 | -556.21 | 10119.53 | 10133.76 | 0.00 | |
| 16400.00 | 89.71 | 89.92 | 8445.64 | -556.07 | 10219.53 | 10233.67 | 0.00 | |
| 16500.00 | 89.71 | 89.92 | 8446.16 | -555.93 | 10319.53 | 10333.58 | 0.00 | |
| 16600.00 | 89.71 | 89.92 | 8446.67 | -555.79 | 10419.53 | 10433.49 | 0.00 | |
| 16700.00 | 89.71 | 89.92 | 8447.18 | -555.65 | 10519.53 | 10533.40 | 0.00 | |
| 16800.00 | 89.71 | 89.92 | 8447.70 | -555.51 | 10619.53 | 10633.31 | 0.00 | |
| 16900.00 | 89.71 | 89.92 | 8448.21 | -555.37 | 10719.53 | 10733.22 | 0.00 | |
| 17000.00 | 89.71 | 89.92 | 8448.73 | -555.23 | 10819.52 | 10833.13 | 0.00 | |
| 17100.00 | 89.71 | 89.92 | 8449.24 | -555.09 | 10919.52 | 10933.05 | 0.00 | |
| 17200.00 | 89.71 | 89.92 | 8449.75 | -554.95 | 11019.52 | 11032.96 | 0.00 | |
| 17300.00 | 89.71 | 89.92 | 8450.27 | -554.82 | 11119.52 | 11132.87 | 0.00 | |
| 17400.00 | 89.71 | 89.92 | 8450.78 | -554.68 | 11219.52 | 11232.78 | 0.00 | |
| 17500.00 | 89.71 | 89.92 | 8451.29 | -554.54 | 11319.52 | 11332.69 | 0.00 | |
| 17600.00 | 89.71 | 89.92 | 8451.81 | -554.40 | 11419.52 | 11432.60 | 0.00 | |
| 17700.00 | 89.71 | 89.92 | 8452.32 | -554.26 | 11519.51 | 11532.51 | 0.00 | |
| 17800.00 | 89.71 | 89.92 | 8452.83 | -554.12 | 11619.51 | 11632.42 | 0.00 | |
| 17900.00 | 89.71 | 89.92 | 8453.35 | -553.98 | 11719.51 | 11732.33 | 0.00 | |
| 18000.00 | 89.71 | 89.92 | 8453.86 | -553.84 | 11819.51 | 11832.24 | 0.00 | |
| 18100.00 | 89.71 | 89.92 | 8454.38 | -553.70 | 11919.51 | 11932.15 | 0.00 | |
| 18200.00 | 89.71 | 89.92 | 8454.89 | -553.56 | 12019.51 | 12032.06 | 0.00 | |
| 18300.00 | 89.71 | 89.92 | 8455.40 | -553.42 | 12119.51 | 12131.98 | 0.00 | |
| 18400.00 | 89.71 | 89.92 | 8455.92 | -553.28 | 12219.50 | 12231.89 | 0.00 | |
| 18500.00 | 89.71 | 89.92 | 8456.43 | -553.14 | 12319.50 | 12331.80 | 0.00 | |
| 18600.00 | 89.71 | 89.92 | 8456.94 | -553.00 | 12419.50 | 12431.71 | 0.00 | |
| 18700.00 | 89.71 | 89.92 | 8457.46 | -552.86 | 12519.50 | 12531.62 | 0.00 | |
| 18800.00 | 89.71 | 89.92 | 8457.97 | -552.72 | 12619.50 | 12631.53 | 0.00 | |
| 18900.00 | 89.71 | 89.92 | 8458.48 | -552.58 | 12719.50 | 12731.44 | 0.00 | |
| 19000.00 | 89.71 | 89.92 | 8459.00 | -552.44 | 12819.50 | 12831.35 | 0.00 | |
| 19100.00 | 89.71 | 89.92 | 8459.51 | -552.30 | 12919.49 | 12931.26 | 0.00 | |
| 19200.00 | 89.71 | 89.92 | 8460.03 | -552.16 | 13019.49 | 13031.17 | 0.00 | |
| 19300.00 | 89.71 | 89.92 | 8460.54 | -552.02 | 13119.49 | 13131.08 | 0.00 | |
| 19400.00 | 89.71 | 89.92 | 8461.05 | -551.88 | 13219.49 | 13230.99 | 0.00 | |
| 19500.00 | 89.71 | 89.92 | 8461.57 | -551.74 | 13319.49 | 13330.91 | 0.00 | |



Well: MIMOSA 17-16 STATE COM 222H
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) | |
| 19600.00 | 89.71 | 89.92 | 8462.08 | -551.60 | 13419.49 | 13430.82 | 0.00 | |
| 19700.00 | 89.71 | 89.92 | 8462.59 | -551.46 | 13519.49 | 13530.73 | 0.00 | |
| 19701.56 | 89.71 | 89.92 | 8462.60 | -551.46 | 13521.04 | 13532.28 | 0.00 | exit |
| 19781.56 | 89.71 | 89.92 | 8463.00 | -551.36 | 13601.04 | 13612.21 | 0.00 | BHL |



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

Mimosa 17-16 State Com 222H

**Sec-18 T-20S R-30E
1430' FNL & 2196' FWL
LAT. = 32.5767060° N (NAD83)
LONG = 104.0127613° W**

Eddy County NM

Mimosa 17-16 State Com 222H

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



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

Escape

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

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

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

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

Ignition of Gas Source

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

Characteristics of H₂S and SO₂

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

Contacting Authorities

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

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

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

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

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

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

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

II. HYDROGEN SULFIDE TRAINING

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

1. Well Control Equipment

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

2. Protective equipment for essential personnel:

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

3. H₂S detection and monitoring equipment:

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

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

Visual warning systems:

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

4. Mud program:

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

5. Metallurgy:

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

6. Communication:

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

7. Well testing:

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

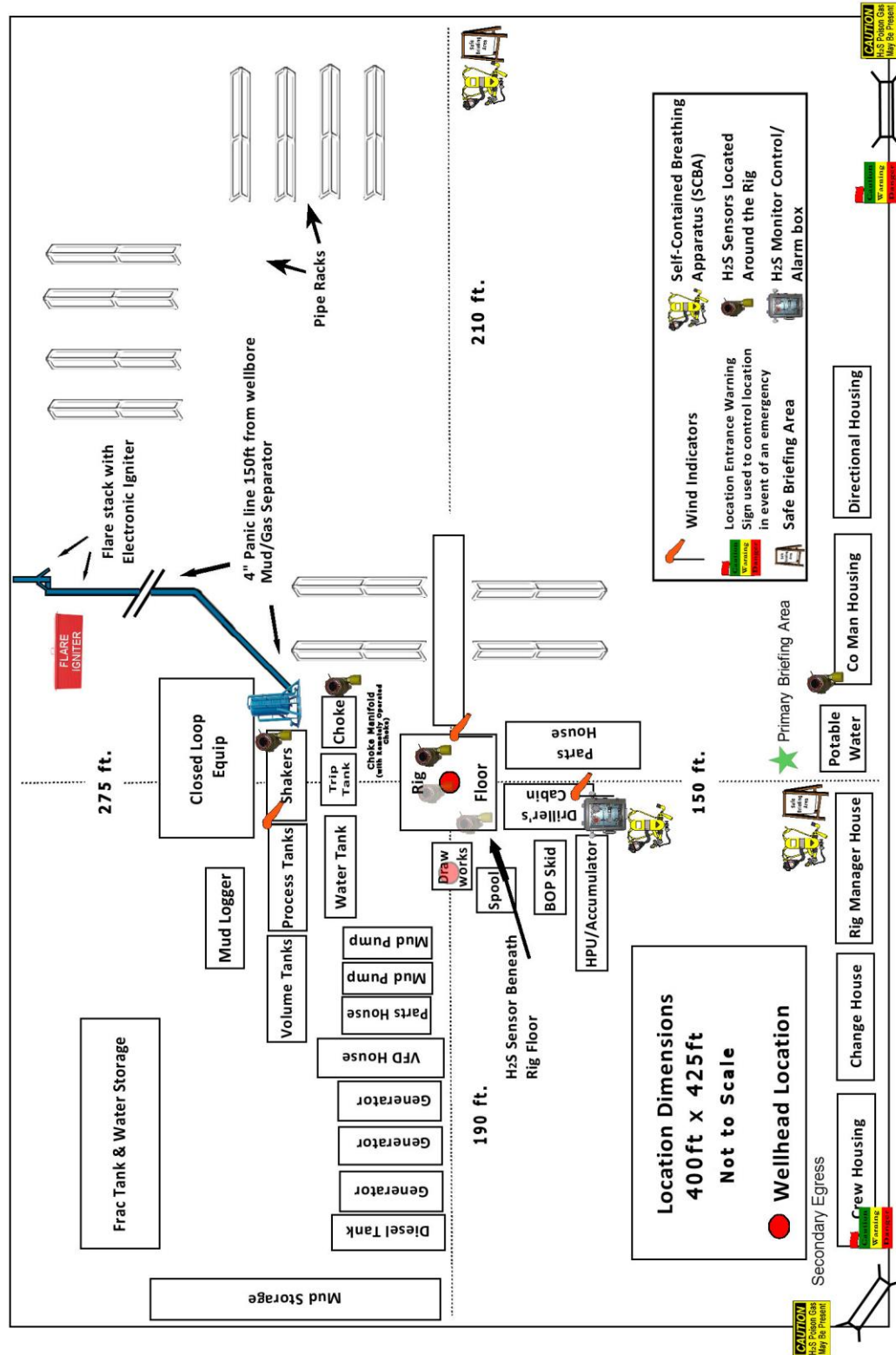
| <u>Devon Energy Corp. Company Call List</u> | | | |
|--|------------------|---------------------|---------------------------|
| Employee/Company Contact Representative | Position | Phone Number | After Hours Number |
| Jonathan Fisher (North) | Drilling Manager | 832-967-7912 | |
| Jason Hildebrand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

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

Prepared in conjunction with
Dave Small



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location



1. Geologic Formations

| | | | |
|---------------|-------|------------------------------|-----|
| TVD of target | 8463 | Pilot hole depth | N/A |
| MD at TD: | 19782 | Deepest expected fresh water | |

Basin

| Formation | Depth (TVD) from KB | Water/Mineral Bearing/Target Zone? | Hazards* |
|------------------|---------------------|------------------------------------|----------|
| Rustler | 304 | | |
| Salt | 412 | | |
| Base of Salt | 1680 | | |
| Capitan Reef Top | 2157 | | |
| Delaware | 3704 | | |
| Cherry Canyon | 4656 | | |
| Brushy Canyon | 7261 | | |
| Bone Spring 1st | 7408 | | |
| Bone Spring 2nd | 8188 | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

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

MIMOSA 17-16 STATE COM 222H

2. Casing Program (Primary Design)

| Hole Size | Csg. Size | Wt (PPF) | Grade | Conn | Top (MD) | Bottom (MD) | Top (TVD) | Bottom (TVD) |
|-----------|-----------|----------|--------|-----------|----------|-------------|-----------|--------------|
| 17 1/2 | 13 3/8 | 54.5 | J-55 | BTC | 0.0 | 329 MD | 0 | 329 TVD |
| 12 1/4 | 10 3/4 | 45.5 | J-55 | BTC SCC | 0.0 | 1705 MD | 0 | 1705 TVD |
| 9 7/8 | 8 5/8 | 32.0 | P110EC | MOFXL | 0 | 3754 MD | 0 | 3754 TVD |
| 7 7/8 | 5 1/2 | 20.0 | P110 | DWC/C IS+ | 0 | 19782 MD | 0 | 8463 TVD |

- All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.
- The Rustler top will be validated via drilling parameters (i.e. reduction in ROP), and the surface casing setting depth will be revised accordingly. In addition, surface casing will be set a minimum of 25' above the top of the salt.

3. Cementing Program (Primary Design)

| Casing | # Sks | TOC | Wt. (lb/gal) | Yld (ft ³ /sack) | Slurry Description |
|------------|-------|------|--------------|-----------------------------|----------------------------------|
| Surface | 277 | 0 | 13.2 | 1.44 | Lead: Class C Cement + additives |
| Int | 91 | 0 | 9 | 3.27 | Lead: Class C Cement + additives |
| | 101 | 1205 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Int 1 | 127 | 0 | 9 | 3.27 | Lead: Class C Cement + additives |
| | 67 | 3254 | 13.2 | 1.44 | Tail: Class H / C + additives |
| Production | 117 | 6953 | 9 | 3.27 | Lead: Class H / C + additives |
| | 1433 | 8953 | 13.2 | 1.44 | Tail: Class H / C + additives |

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 Capitan and the second stage performed as a bradenhead squeeze with planned cement from the Capitan to surface. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures. 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.

| Casing String | % Excess |
|---------------------------------|----------|
| Surface | 50% |
| Intermediate and Intermediate 1 | 30% |
| Intermediate 1 (Two Stage) | 25% |
| Prod | 10% |

4. Pressure Control Equipment (Four String Design)

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

5. Mud Program (Four String Design)

| Section | Type | Weight (ppg) |
|----------------|-----------------|--------------|
| Surface | WBM | 8.5-9 |
| Intermediate | DBE / Cut Brine | 10-10.5 |
| Intermediate 1 | WBM | 8.5-9 |
| 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 | 4621 |
| Abnormal temperature | No |

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

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

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

8. Other facets of operation

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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

Attachments

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

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: DEVON ENERGY PRODUCTION COMPANY, LP **OGRID:** 6137 **Date:** 12 / 18 / 2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

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

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

IV. Central Delivery Point Name: See attachment [See 19.15.27.9(D)(1) NMAC]

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

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

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

NATURAL GAS MANAGEMENT PLAN**Section 1 - Plan Description**

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

| Well Name | API | ULSTR & FOOTAGE | Anticipated Gas/Oil/Water | Central Delivery Point Name: |
|-----------------------------|-----|---------------------------------|---|------------------------------|
| MIMOSA 17-16 STATE COM 221H | n/a | 18-20S-30E, 720 FNL & 2490 FWL | (+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd | MIMOSA 18 CTB 1 |
| MIMOSA 17-16 STATE COM 222H | n/a | 18-20S-30E, 2000 FNL & 2490 FWL | (+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd | MIMOSA 18 CTB 1 |
| MIMOSA 18-16 STATE COM 223H | n/a | 18-20S-30E, 1642 FSL & 805 FWL | (+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd | MIMOSA 18 CTB 1 |
| MIMOSA 18-16 STATE COM 224H | n/a | 18-20S-30E, 1612 FSL & 805 FWL | (+/-)1625mcf/(+/-)694bopd/(+/-)2172bwpd | MIMOSA 18 CTB 1 |

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

| Well Name | API | Spud Date | TD Reached Date | Completion Commencement Date | Initial Flow back Date | First Production Date |
|-----------------------------|-----|-----------|-----------------|------------------------------|------------------------|-----------------------|
| MIMOSA 17-16 STATE COM 221H | n/a | 4/30/2025 | 5/30/2025 | 9/27/2025 | 9/27/2025 | 9/27/2025 |
| MIMOSA 17-16 STATE COM 222H | n/a | 5/20/2025 | 6/19/2025 | 10/17/2025 | 10/17/2025 | 10/17/2025 |
| MIMOSA 18-16 STATE COM 223H | n/a | 5/2/2025 | 6/1/2025 | 9/29/2025 | 9/29/2025 | 9/29/2025 |
| MIMOSA 18-16 STATE COM 224H | n/a | 4/14/2025 | 5/14/2025 | 9/11/2025 | 9/11/2025 | 9/11/2025 |

* Dates subject to change

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices


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

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

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

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

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

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



VI. Separation Equipment

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



VII. Operational Practices

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

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



VIII. Best Management Practices during Maintenance

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



Devon Energy Production Company, L.P.
333 W. Sheridan Avenue
Oklahoma City, Oklahoma
73102
Phone: (405) 228-4800

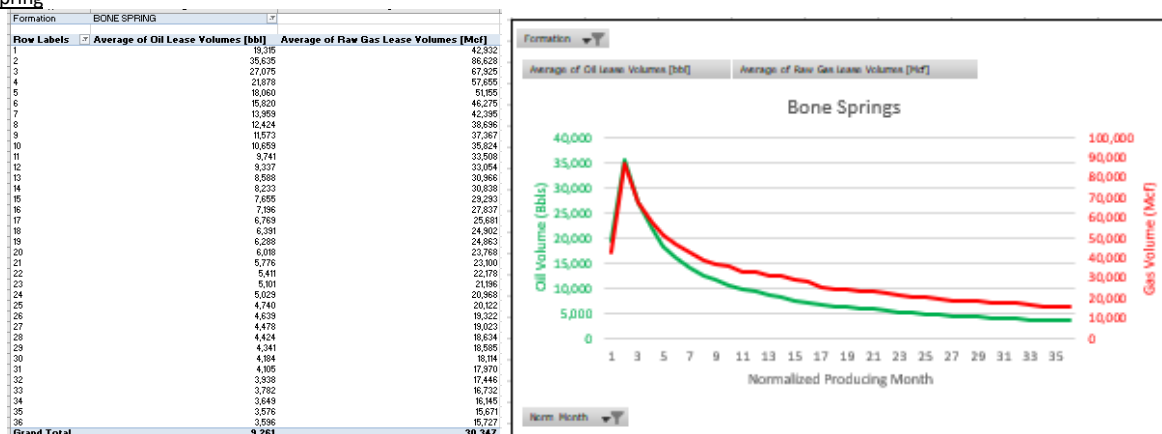
WASTE MINIMIZATION PLAN

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

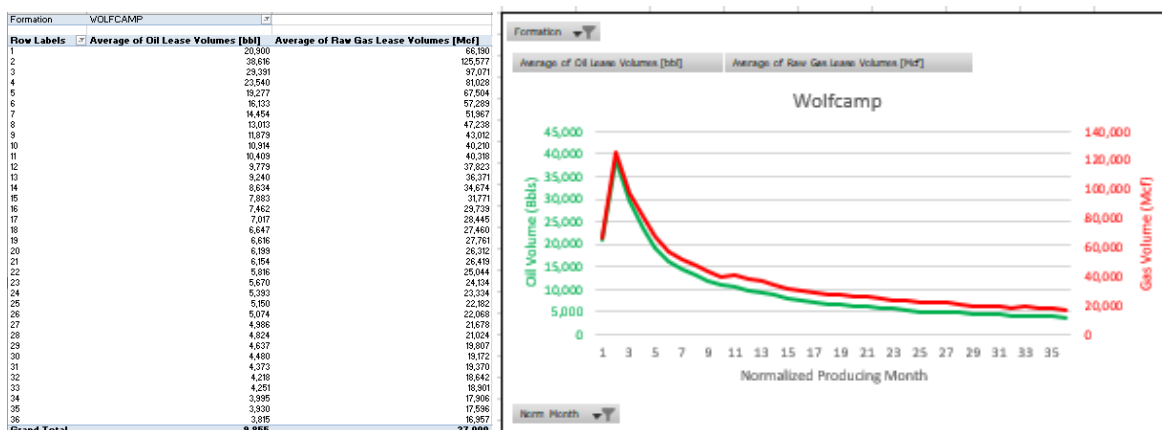
- (1) initial oil production estimates and decline,
- (2) initial gas production estimates and decline,
- (3) certification that the operator has an executed gas sales contract to sell 100 percent of the produced oil-well gas, and
- (4) any other information demonstrating the operator's plans to avoid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

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

Bone Spring



Wolfcamp



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

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