

HELPFUL RESOURCES TIPS AND TRICKS

APD Checklist

- Form 3160-3
- Well Location Plat
- Control Monuments Plat
- Pad plats
- Lease road maps
- Pipeline maps
- Vicinity Map
- Topo Plat
- Aerial Plat
- Lease Plat
- Drilling Plan and supporting documents/diagrams
- Surface Use Plan
- Certifications (Bond, Operator)
- One-Mile Radius,
- Surface Access Agreement (If applicable)
- And then any other documents (floodplain, etc.)

DRILLING PLAN

Necessary Information and Required Attachments (* Indicates required information)

Section 1 –Geologic Formations (and Contents)

For **all** Formations encountered:

- Formation Names *
- Lithology
- Depths Encountered (MSL, MD & TVD, feet) *
- Producing Formation *
- Formation Contents *

Section 2 – Blowout Prevention Table

- BOP Pressure rating (3M, 5M, etc.) *
- BOP Depth Limit (Deepest depth BOP will be used, feet) *
- BOP Specific Variance Request (or Attachment)
- BOP Diagram *
- Choke Diagram *

Section 3 – Casing

For **each** casing string:

- String Type *
- Hole Size (inches) *
- Top Setting Depth (MD & TVD, feet) *
- Bottom Setting Depth (MD & TVD, feet) *
- Casing Size (inches) *
- Casing Grade *
- Weight per Foot (lb. /ft.) *
- Joint Type *
- Condition? (New or Used) *
- For Used Pipe, Pipe Inspection Document Attachment *
- API or Non-API? *
- If Non-API, Manufacture Spec Documentation Attachment *
- Tapered String?*
- For Tapered, Tapered String Spec Attach *

Design Factor Table (all strings but conductor):

- Collapse *
- Burst *
- Body Tensile (Dry or Buoyant) *
- Joint Tensile (Dry or Buoyant) *
- Casing Design Worksheet * (Must edit the table to upload)

Section 4 – Cement

Cement Details for each string proposed:

Stage Tool Depth, if proposed (additional segments will be required)

For Lead (and Tail, if proposed):

Top MD of Segment (feet) *

Bottom MD of Segment (feet) *

Cement Type*

Additives*

Quantity (sk) *

Yield (cu ft. /sk) *

Density (lbs. /gal) *

Total Volume (cu ft.) *

Percent Excess*

Section 5 – Circulating Medium (Mud Program)

Type: Open, Closed or Semi-Closed *

Air Drilling Operations? *

If Air, Description of Circulating system *

If Air, Diagram of Circulating Equipment *

Description of On Location Well Mitigation Materials *

Description of Mud Monitoring Equipment *

Mud Table Information:

Mud Type*

Top & Bottom Depths (feet) *

Mud Weight (Min & Max, lbs. /gal) *

Density (lbs. /cu ft.)

Gel Strength (lbs. /100 sq. ft.)

Ph

Viscosity (Centipoise)

Filtration (cc)

Salinity (ppm)

Mud Additional Characteristics

Section 6 – Test, Logging & Coring

Production Tests * (DSTs)

Open and Cased Hole Logs *

Coring Operation Description *

Section 7 - Pressure

Anticipated Bottom hole Pressure (psig)*

Geologic Hazards? *

If Geo Hazards, Description of Hazards *

- If Geo Hazards, Hazards Contingency Plan (or Attachment) *
- Hydrogen Sulfide? *
- If Hydrogen Sulfide, Hydrogen Sulfide Drilling Operations Plan *

Section 8 – Other Information

- Other Facets Description (or Attachment)
(e.g. Directional Drilling Plan, HF Plan)
- Variance Request Description (or Attachment)

Surface Use Plan of Operations

Necessary Information and Required Attachments

* Indicates required information

Section 1 – Existing Roads

If existing will roads will be used:

Road Map(s) *

Road Purpose *

Existing ROW(s) *

Improvements Needed *

Section 2 – New Roads

If new roads will be required:

Road Map(s) *

Road Type *

Road Length *

Construction Width (ft.) *

Travel Width (ft.) *

Max Slope (%) *

Max Grade (%) *

Drainage Crossings *

Drainage Control *

ACOE/404 Permit *

Erosion Control *

Road Plan/Profile *

Engineering Design *

Turnouts *

Surfacing *

Topsoil *

Section 3 – Location of Existing Wells

Map or Description *

Section 4 – Location of Existing and/or Proposed Production Facilities

Map or Description *

Section 5 – Location and Types of Water Supply

Source and Volume *

Source Type *

Use Type *

Source Location

Permit Type *

Transportation Method *

Source Land Ownership *

Volume *

Map of source and transportation route *

New water well *

Section 6 – Construction Materials

If Used, Description *

Section 7 – Methods of Handling Waste

Waste *

Type *

Description *

Amount *

Containment Description or Attachment *

Disposal Type *

Disposal Location Ownership *

Disposal Location Description *

Reserve Pits *

Produced water storage? *

Length (ft.) *

Width (ft.) *

Depth (ft.) *

Volume (cu ft.) *

% Located in cut *

Liner Type *

Liner Description *

Cuttings Area

Length (ft.) *

Width (ft.) *

Depth (ft.) *

Volume (cu ft.) *

% Located in cut *

Liner Type *

Liner Description *

Section 8 – Ancillary Facilities

If Used, Attachment *

Section 9 – Well Site Layout

Layout Diagram *

Section 10 – Plans for Final Surface Reclamation

Type of Disturbance *

Recontouring attachment

Drainage/Erosion Control *

Long Term vs Short Term Disturbance *

Reconstruction Method *
Topsoil distribution and treatment *
Existing Vegetation at each disturbance *
Seed Data
Invasive Species and Weeds *
 Treatment *
 Monitoring *
Success Standards *
Pit Closure *

Section 11 – Surface Ownership
Ownership for each type of disturbance *

Section 12 – Other Information
Right of Way Needs *
Previous Onsite Information
Addition Information

LIST OF ATTACHMENTS TO BE GATHERED PRIOR TO STARTING TO FILE AN NOS or APD

For a Notice Of Staking (NOS) Submission:

1. Survey Plat and /or Road Map to Staked Location
2. Other Surface Use Plan of Operations (SUPO) attachments
3. Other attachments submitted with previous NOS.

For an Application For Permit To Drill (APD) Submission:

1. Well Plat, Survey Plat, Road and Pad Diagrams
2. Blow Out Prevention Equipment (BOPE) Diagrams
3. Other Operations Attachments
4. Water Source Location and Maps
5. Aquifer related documents
6. State Water Permit as applicable
7. Additional Water documents
8. Ancillary Facility Diagrams – if applicable
9. Well Site Lay out diagrams
10. Reclamation Plans (Multiple) – Need to list: Existing Vegetation, Seed Plans, Seed Reclamation, Seed Bed Preparation, Weed Treatment, Monitoring Plan, and Pit Closure Plan
11. Produced Water – Water Quality Reports
12. Produced Water Disposal (PWD) Plans
13. Pit Details – Lined/Unlined, Solids Disposal Plans, Pit Reclamation Plans, Leak Detection Plans
14. Other Attachments as needed

Submit geospatial data separately by email or mail.