By virtue of this seal and signature, all supporting documents included in this package are accurate and support the design presented herein.
Erosion and Sediment Control Narrative

1. PROJECT DESCRIPTION

The proposed project involves the construction of a natural gas pipeline along certain watercourses in Wetzel County, West Virginia. The pipeline will have a diameter of 96 inches and will be designed to transport up to 2.0 million dekatherms per day of natural gas. The pipeline is intended to be environmentally friendly and will employ erosion and sediment control measures to minimize any potential impact on the surrounding ecosystem.

2. EROSION AND SEDIMENT CONTROL MEASURES

2.1. Permanent Stabilization

All temporary erosion and sediment control measures will be designed and constructed based upon the existing site conditions. A minimum of 12 months will be required to complete the project, and the permanent stabilization will be in place before any permanent structures are constructed. The measures will include:

- Industrial access roads and temporary structures
- Trench plugs and breakers
- Sediment traps and basins
- Geotextile and toe boards
- Side boards or wedges
- Permanent structures such as bridges, culverts, and other natural gas facilities

2.2. Vegetative Practices

Vegetative practices will be employed to stabilize disturbed areas and to enhance the natural ecosystem. This includes:

-mulching
-seeding
-haying
-potential use of straw bales

3. GENERAL EROSION AND SEDIMENT CONTROL NOTES

3.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

3.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

4. GENERAL EROSION AND SEDIMENT CONTROL NOTES

4.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

4.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

5. CRITICAL AREAS

5.1. Critical areas are designated to protect sensitive ecosystems and natural resources. These areas include:

- Stream crossings
- Wetland areas
- Vegetative areas
- Wildlife habitats

6. OFF-SITE AREAS

6.1. Off-site areas are designated to protect the environment from off-site impacts. These areas include:

- Home sites
- Agricultural activities (e.g., crops, hay production)
- Pasture
- Streams
- Wetlands
- Ponds
- Roads
- Railroads

7. MINIMUM STANDARDS

7.1. Minimum standards for erosion and sediment control are established to ensure that the project will not cause significant erosion or sedimentation. These standards include:

- Vegetative cover
- Sediment traps and basins
- Geotextile and toe boards
- Side boards or wedges

8. GENERAL EROSION AND SEDIMENT CONTROL NOTES

8.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

8.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

9. GENERAL EROSION AND SEDIMENT CONTROL NOTES

9.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

9.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

10. GENERAL EROSION AND SEDIMENT CONTROL NOTES

10.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

10.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

11. GENERAL EROSION AND SEDIMENT CONTROL NOTES

11.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

11.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

12. GENERAL EROSION AND SEDIMENT CONTROL NOTES

12.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

12.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

13. GENERAL EROSION AND SEDIMENT CONTROL NOTES

13.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

13.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

14. GENERAL EROSION AND SEDIMENT CONTROL NOTES

14.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

14.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

15. GENERAL EROSION AND SEDIMENT CONTROL NOTES

15.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

15.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

16. GENERAL EROSION AND SEDIMENT CONTROL NOTES

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16.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

17. GENERAL EROSION AND SEDIMENT CONTROL NOTES

17.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

17.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

18. GENERAL EROSION AND SEDIMENT CONTROL NOTES

18.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

18.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.

19. GENERAL EROSION AND SEDIMENT CONTROL NOTES

19.1. Land disturbance activities shall be performed on private and public lands in accordance with the Virginia erosion and sediment control regulations. The applicant will follow the "Minimum Standards" for erosion and sediment control in Section 4VAC50-30-40 of the Virginia ESC regulations. The applicant will submit the erosion and sediment control plan to the program authority for approval. The applicant is responsible for ensuring compliance with the regulations and the approved plan.

19.2. Erosion and sediment control measures shall be designed and constructed in accordance with the Virginia erosion and sediment control regulations.
There are two major storm flow phenomena associated with the construction of this project that will need to be considered:

1. Sheet Flow
2. Erosion/Sediment Control

Sheet Flow:
Sheet flow is the overland flow of water across the landscape. Sheet flow can occur during construction due to the disturbance of the natural surface, and it can be a significant source of nonpoint source pollution. Sheet flow is characterized by low to moderate velocities and can be controlled through the use of temporary fences and silt fences.

Erosion/Sediment Control:
Erosion occurs when soil is removed from the natural surface, and sediment is transported away. Erosion can be a significant problem during construction, especially on steep slopes or in areas with high rainfall. Erosion can be controlled through the use of silt fences, erosion control blankets, and temporary water bars.

In order to ensure that the project complies with the requirements of Ms. 19, the following steps must be taken:

1. Conduct a site analysis to determine the potential for sheet flow and erosion.
2. Design erosion and sediment control practices to minimize the impact of construction activities.
3. Implement the erosion and sediment control practices during construction.
4. Monitor the effectiveness of the erosion and sediment control practices throughout the construction phase.

A summary of the erosion and sediment control practices for this project are as follows:

Sheet Flow
- Use temporary fences and silt fences to control sheet flow.
- Ensure that all temporary fences and silt fences are installed and maintained properly.
- Monitor the effectiveness of the sheet flow control measures throughout the construction phase.

Erosion/Sediment Control
- Use erosion control blankets and temporary water bars to control erosion.
- Ensure that all erosion control blankets and temporary water bars are installed and maintained properly.
- Monitor the effectiveness of the erosion control measures throughout the construction phase.

These measures will help ensure that the project complies with the requirements of Ms. 19 and protects the environment from the impacts of construction activities.

\[ F = \frac{V}{S} \]

\[ F = \text{depth of flow in feet} \]
\[ V = \text{flow in cfs} \]
\[ S = \text{gradient} \]

**TABLE 3-1:** DEPTH-STORAGE CURVES FOR THE CLEAN WATER DIVERSION WITH CHECK DAMS ALONG THE DIVERSION

<table>
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<tr>
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<th>1</th>
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**NOTE:**
- **F** = DEPTH / STORAGE VOLUME
- **V** = MAXIMUM FLOW RATE
- **S** = GRADE

TRENCH BREAKERS WILL BE INSTALLED ACROSS THE PIPELINE ROW.

**TABLE 3-2:** SUMMARY OF CLEAN WATER DIVERSION GEOMETRY

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**TABLE 4-1:** SUMMARY OF CHECK DAMS

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<th>CHECK DAM</th>
<th>DRAINAGE AREA (ACRES)</th>
<th>NUMBER OF CHECK DAMS</th>
<th>SPACING (FT)</th>
<th>SPACING (M)</th>
<th>TOTAL STORAGE (VOL. CF)</th>
<th>VELOCITY (MPH)</th>
<th>VELOCITY (MS)</th>
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<tr>
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**TABLE 5-1:** SUMMARY OF SLOPE DRAIN GEOMETRY

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<th>SLOPE DRAIN</th>
<th>DRAINAGE AREA (ACRES)</th>
<th>NUMBER OF SLOPE DRAINS</th>
<th>SPACING (FT)</th>
<th>SPACING (M)</th>
<th>TOTAL STORAGE (VOL. CF)</th>
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<th>VELOCITY (MS)</th>
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</thead>
<tbody>
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**TABLE 6-1:** SUMMARY OF PLUNGE POOL OUTLET GEOMETRY

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<th>PLUNGE POOL</th>
<th>DRAINAGE AREA (ACRES)</th>
<th>NUMBER OF PLUNGE POOLS</th>
<th>SPACING (FT)</th>
<th>SPACING (M)</th>
<th>TOTAL STORAGE (VOL. CF)</th>
<th>VELOCITY (MPH)</th>
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<tbody>
<tr>
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**TABLE 7-1:** SUMMARY OF ROCK CHECK DAM GEOMETRY

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<th>ROCK CHECK DAM</th>
<th>DRAINAGE AREA (ACRES)</th>
<th>NUMBER OF ROCK CHECK DAMS</th>
<th>SPACING (FT)</th>
<th>SPACING (M)</th>
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<th>VELOCITY (MPH)</th>
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<tr>
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<td>40</td>
<td>120</td>
<td>4,000</td>
<td>20</td>
<td>10</td>
</tr>
</tbody>
</table>
5. REMOVE BYPASS HOSE, FLUME, PUMP, AND TEMPORARY DAM AS NEEDED.

4. STABILIZE CHANNEL EXCAVATION AND STREAM BANKS PRIOR TO REDIRECTING STREAM FLOW.

3. INSTALL TRENCH PLUGS, PIPE, AND BACKFILL.

1. INSTALL TEMPORARY EQUIPMENT BRIDGE, BYPASS HOSE, FLUME, PUMP, OR COFFERDAM AS DESCRIBED IN STREAM CROSSING DETAILS AROUND THE GENERAL DETAILS SET FEATURES (E.G., LEGALLY DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF SURFACE WATERS. WOODY DEBRIS MAY BE CHIPPED AND SPREAD ON SLOPES OR PLACED TO THE SIDE OF THE DRAINAGE METHODOLOGY.)

17. CONDUCTING INSPECTIONS OF TEMPORARY BMPS ON AT LEAST THE FOLLOWING FREQUENCIES:

15. REVEGETATE DISTURBED AREA PER THE TABLES ON DETAILS MVP-11.1 TO 11.9 AND MVP-12.1 TO 12.4 ON THIS SHEET OR PER LANDOWNER REQUIREMENTS. SATURATED WETLANDS WILL TYPICALLY BE ALLOWED TO RE-VEGETATE NATURALLY. WETLAND REVEGETATION WILL BE CONSIDERED SUCCESSFUL WHEN THE COVER OF HERBACEOUS SPECIES IS AT LEAST 80 PERCENT OF THE TYPE, DENSITY, AND DISTRIBUTION OF THE VEGETATION IN ADJACENT WETLAND AREAS THAT WERE NOT DISTURBED BY CONSTRUCTION. REVEGETATION EFFORTS WILL CONTINUE UNTIL THE ENDPOINT IS ACHIEVED.

14. CONSIDER THE PIPE SECTION WILL BE LOWERED INTO THE TRENCH AND PLACED ON PADDING PER MVP CONSTRUCTION STANDARDS. ANY WETNESS REMAINING ON THE PIPE SECTION WILL BE Dewatered Utilizing Pumped Water Filter Bags.

11. REMOVE AND GRADE OUT THE CLEAN WATER DIVERSION DIKE.

9. MAINTAIN ALL E&SCS DEVICES UNTIL SITE WORK IS COMPLETE AND A GROUND COVER IS ACHIEVED THAT IS UNIFORM ENOUGH TO SURVIVE AND INHIBIT EROSION. RE-GRADE AND REVEGETATE AREAS DISTURBED DURING THE REMOVAL OF CLEAN WATER DIVERSION BARRIERS.

7. PIPE LINES WILL BE TRANSPLANTED TO THE WORK AREA AND STAYED ALONG THE WORKING SIDE OF THE ROAD PRACTICAL TO THE STREAM BANCHE, TO INCLUDE ALL EXISTING SPLIT BANK AND ANY EXITING STREAM BANKS. IN ADDITION, THE SPLIT BANK DIKES AND DRAIN PIPE INSTALLATION WILL NOT BE TRENCHED IN ANY AREA WHERE THE PIPE WILL BE Implanted. IN SLOPE SPACING (MVP-3.2) TO ATTENUATE THE VELOCITY OF RUNOFF IN THE RECLAIMED AREA.

5. REMOVE BYPASS HOSE, FLUME, PUMP, AND TEMPORARY DAM AS NEEDED.

4. STABILIZE CHANNEL EXCAVATION AND STREAM BANKS PRIOR TO REDIRECTING STREAM FLOW.

3. INSTALL TRENCH PLUGS, PIPE, AND BACKFILL.

1. INSTALL TEMPORARY EQUIPMENT BRIDGE, BYPASS HOSE, FLUME, PUMP, OR COFFERDAM AS DESCRIBED IN STREAM CROSSING DETAILS AROUND THE GENERAL DETAILS SET FEATURES (E.G., LEGALLY DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF SURFACE WATERS. WOODY DEBRIS MAY BE CHIPPED AND SPREAD ON SLOPES OR PLACED TO THE SIDE OF THE DRAINAGE METHODOLOGY.)

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14. CONSIDER THE PIPE SECTION WILL BE LOWERED INTO THE TRENCH AND PLACED ON PADDING PER MVP CONSTRUCTION STANDARDS. ANY WETNESS REMAINING ON THE PIPE SECTION WILL BE Dewatered Utilizing Pumped Water Filter Bags.

11. REMOVE AND GRADE OUT THE CLEAN WATER DIVERSION DIKE.

9. MAINTAIN ALL E&SCS DEVICES UNTIL SITE WORK IS COMPLETE AND A GROUND COVER IS ACHIEVED THAT IS UNIFORM ENOUGH TO SURVIVE AND INHIBIT EROSION. RE-GRADE AND REVEGETATE AREAS DISTURBED DURING THE REMOVAL OF CLEAN WATER DIVERSION BARRIERS.

7. PIPE LINES WILL BE TRANSPLANTED TO THE WORK AREA AND STAYED ALONG THE WORKING SIDE OF THE ROAD PRACTICAL TO THE STREAM BANCHE, TO INCLUDE ALL EXISTING SPLIT BANK AND ANY EXITING STREAM BANKS. IN ADDITION, THE SPLIT BANK DIKES AND DRAIN PIPE INSTALLATION WILL NOT BE TRENCHED IN ANY AREA WHERE THE PIPE WILL BE Implanted. IN SLOPE SPACING (MVP-3.2) TO ATTENUATE THE VELOCITY OF RUNOFF IN THE RECLAIMED AREA.

5. REMOVE BYPASS HOSE, FLUME, PUMP, AND TEMPORARY DAM AS NEEDED.

4. STABILIZE CHANNEL EXCAVATION AND STREAM BANKS PRIOR TO REDIRECTING STREAM FLOW.

3. INSTALL TRENCH PLUGS, PIPE, AND BACKFILL.

1. INSTALL TEMPORARY EQUIPMENT BRIDGE, BYPASS HOSE, FLUME, PUMP, OR COFFERDAM AS DESCRIBED IN STREAM CROSSING DETAILS AROUND THE GENERAL DETAILS SET FEATURES (E.G., LEGALLY DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF SURFACE WATERS. WOODY DEBRIS MAY BE CHIPPED AND SPREAD ON SLOPES OR PLACED TO THE SIDE OF THE DRAINAGE METHODOLOGY.)

17. CONDUCTING INSPECTIONS OF TEMPORARY BMPS ON AT LEAST THE FOLLOWING FREQUENCIES:

15. REVEGETATE DISTURBED AREA PER THE TABLES ON DETAILS MVP-11.1 TO 11.9 AND MVP-12.1 TO 12.4 ON THIS SHEET OR PER LANDOWNER REQUIREMENTS. SATURATED WETLANDS WILL TYPICALLY BE ALLOWED TO RE-VEGETATE NATURALLY. WETLAND REVEGETATION WILL BE CONSIDERED SUCCESSFUL WHEN THE COVER OF HERBACEOUS SPECIES IS AT LEAST 80 PERCENT OF THE TYPE, DENSITY, AND DISTRIBUTION OF THE VEGETATION IN ADJACENT WETLAND AREAS THAT WERE NOT DISTURBED BY CONSTRUCTION. REVEGETATION EFFORTS WILL CONTINUE UNTIL THE ENDPOINT IS ACHIEVED.

14. CONSIDER THE PIPE SECTION WILL BE LOWERED INTO THE TRENCH AND PLACED ON PADDING PER MVP CONSTRUCTION STANDARDS. ANY WETNESS REMAINING ON THE PIPE SECTION WILL BE Dewatered Utilizing Pumped Water Filter Bags.

11. REMOVE AND GRADE OUT THE CLEAN WATER DIVERSION DIKE.

9. MAINTAIN ALL E&SCS DEVICES UNTIL SITE WORK IS COMPLETE AND A GROUND COVER IS ACHIEVED THAT IS UNIFORM ENOUGH TO SURVIVE AND INHIBIT EROSION. RE-GRADE AND REVEGETATE AREAS DISTURBED DURING THE REMOVAL OF CLEAN WATER DIVERSION BARRIERS.