

ATLAS



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VOLUME I

# TECHNICAL PROPOSAL

WEST VIRGINIA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION  
DEP OOG - MERP ADMINISTRATION

RFP NO. CRFP 0313 DEP2500000004

JANUARY 7, 2025

# TECHNICAL PROPOSAL WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OOG – MERP ADMINISTRATION

RFP NO. CRFP 0313 DEP2500000004

JANUARY 7, 2025



IN  
PARTNERSHIP  
WITH



Atlas Technical Consultants LLC  
Successor in interest to ATC Group Services LLC  
125 Granville Square  
Morgantown, West Virginia 26501  
304-533-0367  
Jeff Rossi, Contract Manager  
jeff.rossi@oneatlas.com

A handwritten signature in blue ink that reads "Jeff Rossi".

January 7, 2025

West Virginia Department of Administration, Purchasing Division  
Attention: Josh Hager  
2019 Washington Street East  
Charleston, WV 25305-0130

**RE: Atlas Technical Proposal for DEP OOG - MERP Administration**  
**Solicitation No.: CRFP 0313 DEP2500000004**

Dear Mr. Hager and Selection Committee Members,

The State of West Virginia is committed to permanently plugging Marginal Conventional Wells (MCW) oil and natural gas wells on a priority basis using MERP grant funds directed at wells that pose threats to human health, safety, the environment, or future mineral development. The grant funding will enable the State to plug and reclaim an unprecedented number of such wells and well sites through the third quarter of 2028. To ensure adherence to the terms of the grant and the most appropriate use of funds, a grant Administration contract is necessary. Atlas Technical Consultants LLC (Atlas), in partnership with 360 Consulting USA LLC (360) and the Well Done Foundation (Well Done), understands the State's objective of assuring compliance with U.S. Department of Energy (DOE) guidelines and the important role the grant Administrator serves for grant administration throughout the project life cycle. The Atlas/360/Well Done Team offers a demonstrated record of service performance throughout the entire project life cycle successfully delivering quality services and novel partnering with operators to share costs expanding the reach and quantity of MCW Plug and Abandonment nationwide.

**PROVEN PERFORMANCE.** The Atlas/360/Well Done Team is the ideal partner to achieve your goals while ensuring compliance with State and DOE requirements. With over 60 years of experience in North America, we have a proven track record of successfully managing projects of this scale and complexity. **Our expertise is reinforced by our management of more than \$500 million in state-funded petroleum site cleanups and over \$60 million in oil and gas well closures across the U.S. and Canada.** We have successfully executed thousands of plugging and abandonment projects across various U.S. states and Canadian provinces, resulting in efficient program delivery. Agencies consistently trust us to manage their state and federal programs, as demonstrated by our ongoing work with oil and gas well closure programs in North America.

**DEEP CAPACITY.** The Atlas/360/Well Done partnership offers extensive resources to meet the project's demands. Our team comprises over **3,700 professionals nationwide, with more than 250 technical and professional staff in the greater West Virginia region.** We have the personnel and equipment necessary to efficiently and effectively conduct the grant Administration services, deploying qualified personnel as needed to ensure program success.

**QUALITY DELIVERY.** Although each state has its own specific processes and procedures for data and document management, the workflows are fundamentally similar. The Atlas/360/Well Done Team collaborates closely with regulatory agencies to prepare and submit the required reports throughout the entire project life cycle, ensuring compliance and consistency across all phases.

In conclusion, the Atlas/360/Well Done Team offers a cohesive group of experienced teaming partners and subcontractors who are fully equipped to meet or exceed project requirements. As the prime consultant, Atlas is committed to ensuring effective administration and successful performance under this WVDEP contract. We look forward to discussing in more detail the unique advantages that the Atlas/360/Well Done Team brings to this project.

Respectfully submitted,



Jeff Rossi  
Contract Manager  
Jeff.Rossi@oneatlas.com | 304-533-0367

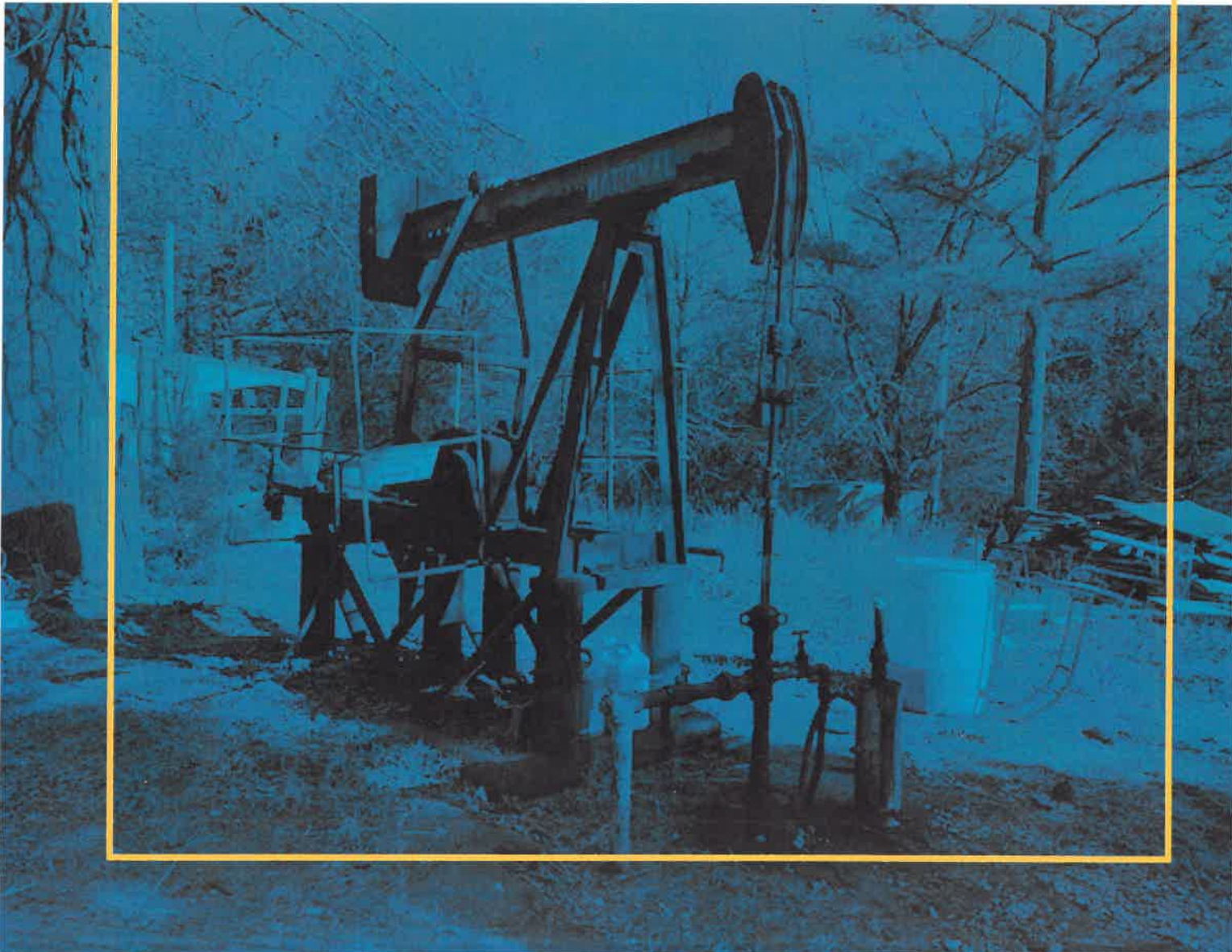


Atlas Technical Consultants LLC

125 Granville Square, Morgantown, West Virginia 26501

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## Alignment with Evaluation Criteria

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# 1 | EXECUTIVE SUMMARY

Atlas has thoughtfully curated a team that combines extensive **experience** in the full spectrum of oil and gas well and well site closure services with a proven track record of successfully delivering similar work across multiple states and Canadian jurisdictions. Our commitment to quality in State and DOE-compliant service delivery is unwavering, and our team has a plan to execute the maximum number of projects using the grant funds available. We offer the best of both worlds—local experts with **deep knowledge of regional conditions and regulatory requirements** alongside a national team of specialists with extensive experience in well-plugging and abandonment projects.



## EXPERIENCE

### Well Site Management Experience

ATLAS		360	
176 WELLS	3 JURISDICTIONS	5,700+ WELLS	10 JURISDICTIONS

- National Program Leaders
- Well Done Foundation (WDF)
- Original Sponsor of the American Carbon Registry (ACR) Orphaned Well Carbon Credit Methodology
- National Leaders in Orphaned Well Methane Measurement under IJJA/ Bipartisan Infrastructure Law (BIL)
- Developers of WDF Well Intel<sup>®</sup> IoT Platform
- Developers of WDF Qualified Measurement Specialist (QMS) Certification Program

### STRENGTHS OF THE ATLAS/360/WELL DONE TEAM

- ✔ National Leaders in Well Site Management and Site Reclamation under the Infrastructure Investment and Jobs Act (IIJA)/BIL and Inflation Reduction Act (IRA)
- ✔ Consistently available and proactive in addressing and resolving issues as they arise by keeping open lines of communication with Agency representatives and the team
- ✔ Successful experience reducing costs and improving over all
- ✔ First recipients of MERP program with UT

### Assessment and Reclamation Experience

ATLAS		360	
10,000+ WELLS	50 JURISDICTIONS	10,000+ WELLS	4 JURISDICTIONS

### Well Plugging and Abandonment Projects:

#### Well Done Foundation ACR- and Carbon Path-Compliant MEQ

**65 WELLS**

in 7 States



#### Well Done Foundation DOI- and DOE-Compliant MEQ

**1,600+ WELLS**

in 14 States

**500+ WELLS**

in the WV Region

**WHAT THIS MEANS TO YOU:** Our extensive experience enables us to leverage best practices and innovative solutions that translate to efficient delivery, maximizing efficiency in the number of wells serviced with available funding.

*The Atlas/360/Well Done Team was recently awarded the MERP contract with the Utah Department of Environmental Quality because of our depth and breadth of experience.*



## STATE AND FEDERAL PROGRAM DELIVERY

19

State and Federal Petroleum Programs

**WHAT THIS MEANS TO YOU:** Our successful delivery of state and federal petroleum-related orphaned well programs in multiple states means we know how to navigate complex requirements and can anticipate issues before they arise, thus maintaining critical budgets and schedules. Moreover, our 40+ year history of delivering work for local, regional, and state agencies means we understand regional requirements and agency procedures, resulting in streamlined delivery with no learning curve.



## DEEP REGIONAL RESOURCES

Atlas' West Virginia presence is rapidly expanding. In fact, the WVDEP recently selected us for an Abandoned Mine Lands (AML) reclamation and remediation management contract on 14 sites located in Fayette and Greenbrier Counties throughout southern West Virginia. **This award was the largest of eight competitive AML contracts issued by the WVDEP in 2023.**

**WHAT THIS MEANS TO YOU:** Our team's deep pool of state and regional offices and experienced staff enables us to respond quickly and efficiently to any need, whether anticipated or unexpected, resulting in efficient delivery that maximizes your available funding.

## PROVEN LEADERSHIP

The Atlas/360/Well Done Team will achieve this contract's scheduling and efficiency objectives by working closely with the Agency, CBC and stakeholders. The Project Manager will coordinate stakeholder engagement and the application of appropriate specialized personnel based on the phase of the project (i.e., well nomination, desktop ESA and SHPO reviews, Pre-Plugging MEQ, Well Prioritization, Post Plugging and Reporting). The Atlas/360/Well Done Team will have specialized personnel available for work being performed at multiple locations throughout the project life cycle.

### KEN PASTERAK, LRS, PG

Project Manager

Ken is a recognized site assessment and remediation leader and has successfully achieved regulatory closure for releases of hazardous substances and petroleum constituents to the environment at numerous properties in multiple states. He is currently LRS for multiple WV restoration and remediation efforts. He manages site assessment and remediation on an on-going basis for transporters with fuel spills and releases in WV and PA on behalf of multiple insurance carriers. He has managed Environmental Site Assessments (Phase I, II etc.) at numerous sites in WV and PA, directed source soil removals, and supported orphan well plugging and soil remediation recommendations to support redevelopment of PA property. During industrial site remediation and EPA brownfield redevelopment efforts, Ken prioritized public outreach by developing stakeholder engagement programs, providing updates, responding to questions, and shaping communication strategies.

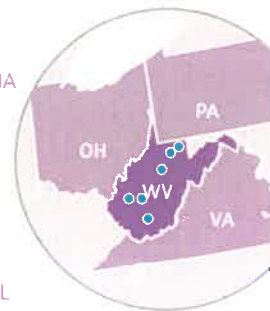
### CURTIS SHUCK, QMS (4.3.1.3)

QMS Services Lead

Curtis is the nation's foremost expert in orphaned and marginal well methane measurement and monitoring and has led more than 500 DOI-compliant projects, 6 ACR-compliant projects, and 46 MCW compliant projects in the region. Nationally, Curtis has led over 1,600 DOI-compliant projects, 65+-ACR compliant projects, and more than **500 MCW-compliant projects in 14 states**. He developed the Well Intel IoT Platform to manage the vast amounts of data associated with each well, which allows for real-time live data viewing, project progress activities, field reports, images uploading, project safety documentation and other key features. Access to Well Intel produces DOE/EPA required compliant reports and will be provided to the project team, including WVDEP.

380+  
REGIONAL  
STAFF

40+  
YEARS IN  
WEST VIRGINIA



43  
REGIONAL  
OFFICES

6  
WEST VIRGINIA  
OFFICES

**SCOTT McCREADY, LEED AP, PG**

Executive Sponsor

Scott has **42 years of experience in environmental assessment, remediation, and regulatory compliance.** He specializes in opportunities related to the assessment, plugging, and restoration of orphaned and marginal conventional wells under the IIJA and Inflation Reduction Act (IRA), ensuring compliance with DOI and DOE requirements. Scott has extensive experience with oil and gas well site assessment, plugging, and restoration in Ohio. He is also highly knowledgeable in regulatory programs such as the Resource Conservation and Recovery Act (RCRA), Clean Water Act (CWA), Comprehensive Emergency Response, Compensation & Liability Act (CERCLA), Emergency Planning & Community Right to Know Act (EPCRA), and the Clean Air Act (CAA) potential to emit assessment and permitting.

**ADAM DERRY, P.ENG**

Technical Advisor

Plug and abandonment subject matter expert with a deep understanding of project planning, management, and execution is complemented by hands-on experience in various field operations, such as drilling, completion, and abandonment of oil and gas wells, as well as facility commissioning and decommissioning. Adam has **designed and managed thousands of P&A projects for both orphan and marginal well programs.**

**JEFF ROSSI**

Contract Manager

Jeff Rossi has 26 years of experience in the environmental consulting field. He specializes in the client management cycle of activities from contracting through budgeting and invoicing. For the WVDEP contract, Jeff will be **responsible for ensuring adequate levels of staffing and the timely delivery of project documents.** He has the benefit of many years of experience in the evaluation and remediation of petroleum and hazardous compounds in soil, surface water, sediment, soil vapor and groundwater.

**Courtney Zimmerman, PE (4.3.1.2)**

ESA & NHPA Field Advisor

Architectural historian and licensed professional engineer with over **20 years of experience in historic preservation and environmental review.** Since founding Aurora, Ms. Zimmerman has provided Section 106/4(f) review, cultural and natural resource field survey, public involvement, report preparation, and mitigation services for clients including DOTs, state and local governments, A/E firms and environmental consultants. Ms. Zimmerman has multidisciplinary experience in cultural and natural resources, technical writing, and structural/civil engineering and has a comprehensive understanding of highway projects from design through construction. She has overseen the survey and National Register evaluation of thousands of historic resources and is skilled at working with a diverse array of stakeholders

**KEY TEAMING PARTNERSHIPS**

Atlas has intentionally crafted our team to include teaming partners with the optimal mix of expertise, deep resources and capacity, and equipment necessary to address any need that may arise.



LABORATORY SERVICES



**DBE COMMITMENT**

Atlas/360/Well Done believes that small, women-owned, and minority-owned businesses play a crucial role in driving innovation and quality. We foster inclusive partnerships with these businesses, contributing to the growth and success of DBE firms. By working together, we can achieve shared success and create lasting, positive impacts in our communities.



## 2 | PROJECT GOALS AND OBJECTIVES (4.2 and 4.2.1.1)

As leading nationwide providers of environmental and engineering services, the Atlas/360/Well Done Team supports a wide range of world-class and high-performing public and private organizations with similar goals. This experience has informed us that **successful execution of multi-disciplinary, environmental engineering contracts requires a flexible, team-based, networked organization.** *Flexible* to adapt to complex environments and satisfy the objectives of multiple stakeholders; *team-based* to provide the depth and breadth of program management, environmental engineering services and aligned objectives; and *networked* to capitalize on standardized processes and platforms necessary to provide consistent, comprehensive, and cost-effective services.

### Community Benefits Committee

The Atlas team understands that the Agency will be responsible for assuring compliance with the Community Benefits Plan through the Community Benefits Committee (CBC), particularly as it relates to stakeholder engagement. We understand that the CBC is comprised of stakeholders representing surface owners, mineral owners, industry, laborers, and the environment. It is understood that the CBC will review public feedback to develop the MCW well plugging prioritization plan/model to be applied to all wells nominated for plugging under this program.

### Public Engagement Meetings and MCW Plugging Prioritization Plan (4.2.1.1)

The Atlas team understands that the Agency has conducted a series of public meetings through which it received community feedback regarding the factors which will be incorporated into the MCW plugging prioritization plan (PPP). We also understand that the finalized prioritization model will be provided upon award and the selection of the criteria which will comprise the model is the responsibility of the Community Benefits Committee.

### Grant Administration

The Atlas team will develop a [Grant Administration Plan \(GAP\)](#) in collaboration with the Agency and the GAP will include at a minimum the following key components:

- **MCW Nomination Process** is one where owners/operators of MCWs, and other stakeholders, will identify

### SUPPORTING YOUR MISSION

The State of West Virginia's goal is to safely plug as many MCWs as possible with the given budget using sustainable techniques and the most experienced team. The Atlas team is dedicated to your mission to:

- ✔ Implement a robust Well Nomination Process that will result in a list of 400 Nominated Wells.
- ✔ Perform Desktop reviews for ESA and SHPO compliance and permitting if applicable.
- ✔ Quantify Pre-Plugging methane to report one of the critical return on investment (ROI) metrics for these projects and use in Prioritization.
- ✔ Prioritize wells for plugging and abandonment and deliver the list of those wells for plugging.
- ✔ Quantify Post-Plugging methane to confirm the elimination of harmful gases entering the atmosphere.
- ✔ Eliminate hazards posed to the public and the environment.

or suggest candidate wells to be considered for well plugging. These wells will be referred to as "nominated wells". The Atlas team will include considerations to ensure that the MCW Nomination Process achieves well plugging and site restoration which maximizes methane reduction. This will include a strategy to maximize the number of wells included in the program through the nomination process and off-ramp projects that do not meet WVDEP objectives.

- The nomination process will include a well owner/operator outreach component whereby the MCW plugging prioritization plan/model will be explained in detail to prospective program participants. The Atlas team will provide WVDEP with learnings obtained through experience in similar federal grant programs including payment of state and federal taxes, staged grants periods, structure of staged grant periods, state level contract structure with well owner/operators, allocation of funds per well owner/operator, etc.
- Considerations to include in the nomination process:
  - ▶ Project cost for plugging and site restoration
  - ▶ Operator financial contribution

- ▶ Methane reduction
- ▶ Project proximity to environmental and human receptors
- ▶ The Atlas team will open and close a well nomination period and actively solicit nominations from owners/operators of MCWs and other stakeholders.
- ▶ **Tribal Consultation** will be conducted by the Atlas team for each selected well in cases where projects fall within recognized ancestral lands of Indian tribes.

Developed from extensive experience, an effective MCW nomination process to decide upon a list of “selected wells” to plug and abandon (P&A) involves systematically identifying wells that are no longer economically viable and pose risks. The process should balance economic, technical, regulatory, and environmental considerations. In order to compare projects for economic viability, the Atlas/360/Well Done Team will develop a standardized cost estimating tool to be used by owner/operators and submitted to the Atlas/360/Well Done Team for review. This tool will be used to ensure consistency of project costs and will dictate the maximum funds allocated for each specific project. This will provide budget certainty and enable the maximum number of projects to be executed.

The Atlas team will develop an **MCW nomination process** which will be detailed in the **GAP**. The process will be developed in collaboration with the Agency. We understand that the Agency anticipates the use of the PRIMO software developed by NETL for well documentation and prioritization.

The Atlas team envisions a well nomination process that engages participation in the program using the following approach.

- ▶ Outreach through the industry associations of West Virginia such as the Gas and Oil Association of West Virginia GOWV.com
- ▶ Email and Paper Mail Campaigns to identify Interested Owner/Operators
- ▶ Notices of intent to Participate (NOIPs) are received
- ▶ Each NOIP will need to include the WVDEP Plugging Permit Packet (dated 11-14-2016)

The goal of this approach is to yield a participation level that exceeds 400 MCWs. The pool of wells from the outreach process will then further organized using the criteria established by the CBC for determining which wells should be nominated. The goal will be to nominate 400 wells for the program.

The Atlas team understands that we will be provided with a full list of owner/operators of MCWs in West Virginia with the current contact information to initiate the outreach process. The type of information to be obtained for each well during the outreach process should include but not be limited to the following:

1. Owner/operators will be requested to submit emissions data (not leaking at a high rate) to the Atlas/360/Well Done team as part of the nomination process.
2. Characterize well-bores according to risk related to plug and abandonment.
3. Characterize well-sites according to frequency and severity of potential contamination.
4. Assign reclamation characteristics to catalogue construction practices and land use conducive to well plugging and site restoration costs.
5. Analyze and catalogue well plugging and site restoration work in progress and work completed.

**Recommendations** - Characterize and recommend wells to P&A based on both the Agency and the owner/operators' objectives for the program.

Other factors and communications to consider with stakeholders could also include the following elements. These elements will be developed in collaboration with the Agency as part of the GAP development process.

## 1. DEFINE OBJECTIVES AND PLUGGING CRITERIA WITH THE STAKEHOLDERS

Establish clear decision-making criteria for nominating wells for P&A:

### Methane emissions:

- ▶ Pre-plugging potential to emit
- ▶ Pre-plugging fugitive emissions

### Economic indicators:

- ▶ Well-plugging cost and risk assessment on cost overruns
- ▶ Negative net present value (NPV) or low production relative to operating costs
- ▶ High lifting costs per barrel or per MCF (thousand cubic feet of gas)

### Reservoir properties:

- ▶ Declining reservoir pressure and recoverable reserves

- › Inability to respond to stimulation techniques and improve economic viability

**Operational risks:**

- › Structural integrity issues (e.g., casing and primary cement failure, tubing integrity issues, etc.)
- › High maintenance costs or frequent interventions

**Regulatory compliance:**

- › Alignment with government mandates for inactive wells
- › Avoidance of environmental liabilities

**2. DATA COLLECTION AND ASSESSMENT**

Perform comprehensive analysis of well data to identify candidates for P&A:

- › **Technical Data:** Production trends, well logs, and reservoir properties
- › **Operational Data:** Maintenance history, workover records, and failure rates
- › **Economic Data:** Operating costs, revenue, and breakeven prices
- › **Environmental Data:** Potential for contamination, leaks, or other environmental hazards

**3. DECISION-MAKING FRAMEWORK**

The nomination process will use the criteria established by the CBC and possibly other elements developed in collaboration with the Agency that may also include the following:

**A. Scoring and Ranking System**

Assign scores to wells based on key parameters, such as:

- › Fugitive methane emissions and potential to emit
- › Economic viability: Comparative analysis performed on all NOIP projects to ensure maximum capital efficiency
- › Potential impact to endangered species
- › Potential impacts to historic sites
- › Operational challenges: Low risk projects prioritized
- › Prioritize wells with high scores for nomination

**B. Regulatory and Community Engagement**

- › Integrate local regulatory requirements for P&A into the nomination process
- › Engage communities and stakeholders to address concerns and ensure transparency

**Innovative aspects of this process include the following:**

**1. Dynamic Economic Thresholds**

- › Incorporate real-time market data (e.g., oil/gas prices) into nomination decisions

**2. Integrated Risk and Impact Assessment**

- › Combine technical, economic, and environmental factors into a single decision model

**3. Automation and AI-Driven Insights**

- › Automate data analysis and predictions for faster and more consistent well evaluation

**4. Sustainability Goals**

- › Include environmental stewardship as a key criterion, focusing on wells that pose the highest risk to ecosystems or communities

To facilitate plugging in the state of West Virginia, we recommend requesting the West Virginia Oil & Gas Plugging Permit Packet (dated 11-14-2016) and requiring its completion by the owner/operator as part of the well nomination process. The operator must submit this permit packet along with their nomination in order for them to be considered for plugging. We are suggesting this be performed to avoid a situation where we want wells to be approved for plugging under MERP and then find ourselves waiting on these documents. If we have these in hand when nominated we can drastically improve efficiency related to wells being plugged in geographic areas. This would be an additional factor to be used in ranking the nominated wells who complete this work with their application.

The Atlas team will confirm that the West Virginia Department of Environmental Protection 'Plugging Permit Packet' is completed by the owner/operator in it's entirety as part of the well nomination process. This would allow for agency assigned plugging contractors to maintain maximum efficiency through area-based plugging campaigns without the need to wait on well plugging permitting.

### Benefits (4.3)

- **Capital Efficiency:** Only economically viable projects selected for inclusion into the program
- **Cost Certainty:** Project costs that exceed the proposed budget are the responsibility of the owner/operator
- **Regulatory Compliance:** Ensures adherence to West Virginia P&A and site restoration regulations
- **Operational Streamlining:** Projects recommended for inclusion into the program are “field-ready”, improving logistics associated with projects in similar geographical areas

### Timeline

A proposed timeline for the nomination process is presented as follows:

- Outreach through the industry associations of West Virginia such as the Gas and Oil Association of West Virginia GOWV.com (8 weeks)
- Email and Paper Mail Campaigns – Identify interested Owner/Operators (completed simultaneously with the above)
- NOIPs are received. Each NOIP will need to include the Plugging Permit Packet (dated 11-14-2016) to avoid an inefficient nomination process. (completed simultaneously with the above plus an additional 4 weeks)
- Closure of the nomination period will occur at the end of this 12 week period. After the end of the well nomination period a list of 400 nominated wells will be generated based on the agreed upon criteria
- We are estimating that generation of the organized list of nominated wells will take 4 weeks to complete

### Permitting (4.2.1.4)

Upon establishment of the set of 400 nominated wells, and prior to conducting Pre-Plugging methane quantification, we envision performing the desktop reviews in compliance with ESA §7 and NHPA §106. The determinations obtained

in these reviews will allow further environmental risk-based organization of the nominated well list. We anticipate these reviews will take approximately 8 weeks to complete. Please refer to the sections below for more detail regarding ESA and NHPA.

### Methane Quantification (4.2.1.2)

Curtis Shuck, QMS will facilitate and oversee the day-to-day measurement and monitoring activities for this project. As a Senior QMS, Curtis brings extensive experience in the required processes and workflows for data collection, management, and documentation to meet the DOI’s IJA/BIL and DOE’s requirements. His role is critical in ensuring that projects remain on track with WVDEP’s well Plugging and Abandonment (P&A) scheduling objectives.

While each state has unique processes and procedures for data and document management, the core workflows remain consistent. The Atlas/360/Well Done Team collaborates closely with well engineering teams and regulatory agencies to prepare and submit Pre- and Post-Plugging Reports for well abandonments. In some cases, such as with the State of New Mexico, Well Done played a key role in designing the platform for Pre- and Post-Plugging Methane Quantification Reporting and continues to manage the data input process.

In the field, the Atlas/360/Well Done Team measures and monitors methane emissions both pre- and post-plugging, using methane quantification instrumentation approved by the ACR, Carbon Path, other registries, and DOI Orphaned Wells Program Office. These measurements adhere to the Methane Measurement Guidelines for Marginal Conventional Wells, U.S. Department of Energy, Version 1, April 17, 2024.

The above approach to developing a list of nominated wells and a prioritized well list is superior to other possible approaches because it is based on experience with this type of program in Canada and results in a comprehensive and robust prioritization that will assure the overall success of the program and a conservative use of program funds.

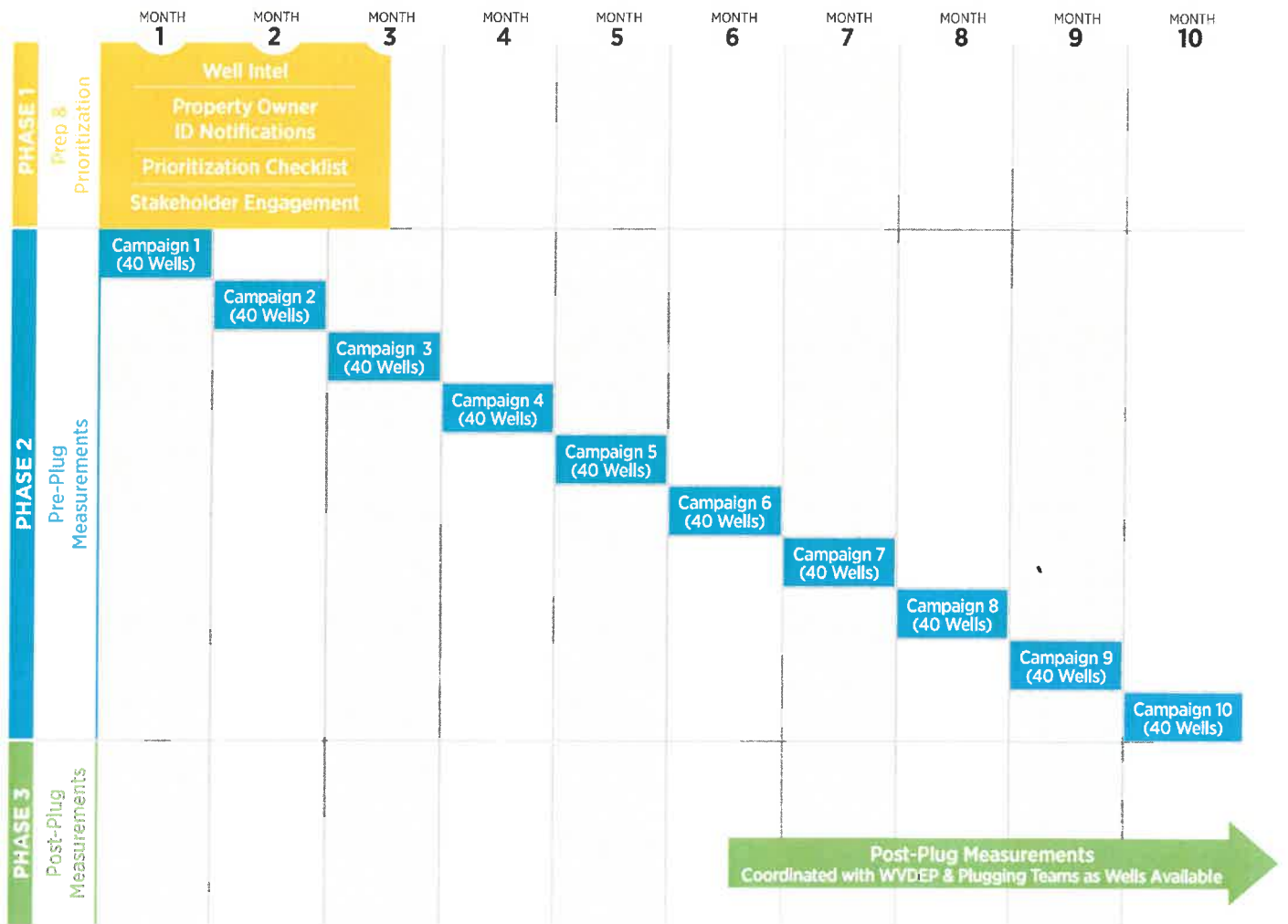


## GOALS AND OBJECTIVES (4.2.1 and 4.2.1.2)

Based on 2023 WV 12-month well production data, there are 58,560 vertical producing wells in the state, 7,004 natural gas wells with natural gas production of less than or equal to 90 mcf/day and 1,416 wells with oil production of less than or equal to 15 barrels of oil per day.

### PROJECT TIMELINE

West Virginia Department of Environmental Protection



PHASE 1 PREPARATION & PRIORITIZATION

The Atlas/360/Well Done Team will establish best practices to set the project up for success. Our preliminary actions will include:

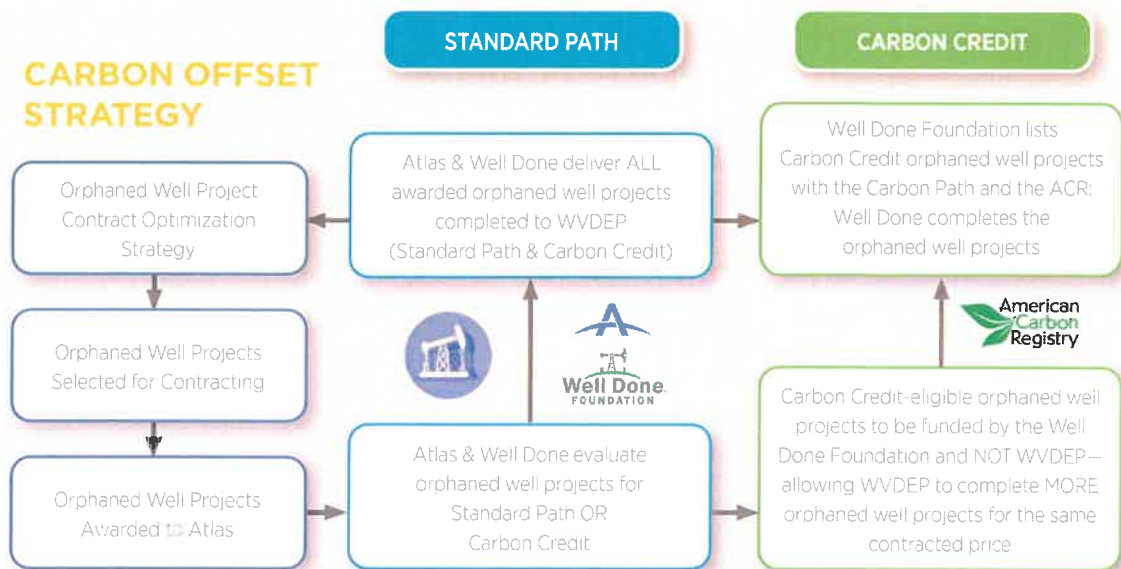
- Registering WVDEP Wells on the WDF Well Intel IoT Platform for full transparency with the WVDEP Team.
- Identifying property owners and access routes.
- Working with the WVDEP Team for notifications and authorizations of access and ingress/egress.
- Identifying certain project elements that may impact prioritization, such as possible wetlands, roadway issues, and/or historic and environmental conditions.
- Supporting WVDEP with stakeholder engagement activities in communities where methane measurement work will occur.

CARBON CREDIT CONTRACT OPTIMIZATION STRATEGY

As a bonded operator in the state of West Virginia, Well Done is able to provide WVDEP with a new avenue to plug more wells without increasing cost. Marginal wells that qualify for the Well Done Carbon Path program transfer from “marginal” status directly to Well Done, which then schedules the work to be completed. This allows wells to be plugged using Carbon Credits instead of federal funds, thereby increasing the number of wells that can be closed with the same amount of funding.

Well Done, and its foundation, is a leading authority and at the forefront of carbon credit project development for plugging and abandonment of oil and gas wells. As a sponsor and contributor to the first carbon methodology, Well Done has acquired extensive knowledge in the monitoring and measurement of methane emissions. Since being established in 2019, Well Done has plugged over 65 wells across the U.S. using the carbon credit methodology.

**Well Done has conducted DOE- and DOI-compliant measurement and monitoring of 1,600+ wells across 14 states and is leading the largest program of this kind in NM.**



PHASE **2** PRE-PLUG MEASUREMENT CAMPAIGNS 1-10 (4.2.1.2)

To support WVDEP’s prioritization and scheduling needs, the Atlas/360/Well Done Team has segmented the project into ten Pre-Plug Measurement Campaigns. This data will then be used in the prioritization of the nominated well list to achieve a prioritized list of “Selected Wells” provide to the Agency for plugging.

We estimate that, as a campaign, up to 40 wells per month can be quantified over a ten month period.

Our strategy facilitates the strategic grouping or bundling of pre-plug measurement missions within specific regions and areas, maximizing efficiency and reducing costs.

To ensure the success of the Atlas/360/Well Done Pre-Plug Measurement Campaigns (1-10), it is critical that the work begins, is executed, and completed during the Fall/Winter periods. This timing takes advantage of improved access, minimal vegetation, and reduced ground cover. Multiple Pre-Plug Teams may need to operate in parallel, with support from the Data Team, which will manage reporting and WDF Well Intel IoT updates. This is especially important in areas with limited cellular and Starlink connectivity, ensuring that real-time or near real-time data can be delivered to WVDEP.

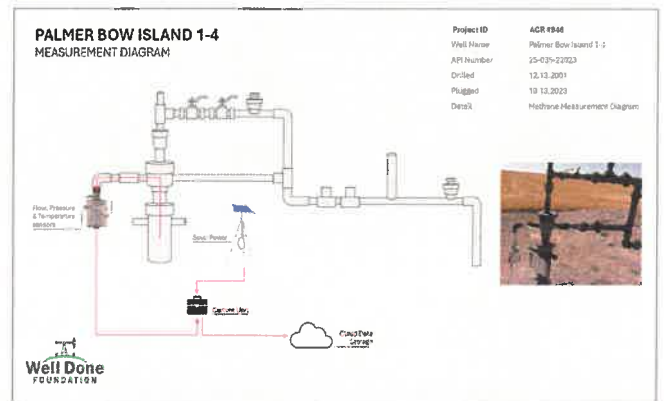
The Pre-Plug Measurement Campaigns are planned to operate from daylight to dark. Each Pre-Plug Measurement Team will consist of two QMSs to ensure safety and efficiency.

The Atlas/360/Well Done Pre-Plug Measurement Teams will be equipped with ground-based methane detection and quantification equipment that meets or exceeds the DOE requirements of <1.0 gram per hour for well screening and active leak rate determination, in accordance with the DOE Methane Measurement Guidelines from July 2023. Leak Background testing will be conducted at each well site using a SEMTECH Hi-Flow2 device. Leak rates will be measured using either a SEMTECH Hi-Flow2 or Ventbuster system, depending on the well’s configuration, flow/leak rates, and methane concentrations, as determined by the QMS. Additionally, the Pre-Plug Teams will assess each well’s “Potential to

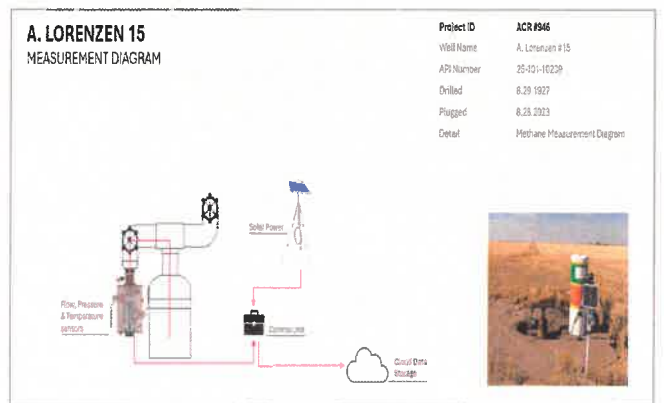
**ORPHANED WELL MEASUREMENT PROTOCOLS**

The Well Done Foundation has three orphan well measurement protocols approved by the ACR and using the ventbuster system.

**1 Production Tubing**



**2 Casing**



Emit” during the Pre-Plug Measurement Campaign. This measurement is crucial for prioritizing wells for plugging and identifying potential risk factors.

During the Pre-Plug Measurement Campaigns, gas samples will be collected and tested on-site using the Well Done ABB Portable Gas Chromatograph (Portable GC).

Additional samples will be collected in Tedlar Bags for independent laboratory analysis and reporting. Once the pre-plug methane measurement is completed, the well will be marked with a green ribbon, indicating that the well is ready for isolation and plugging. The WDF Well Intel IoT system will also be updated accordingly.



*Curtis Shuck, QMS, celebrates completion of pre-plug methane measurement of an orphaned well.*

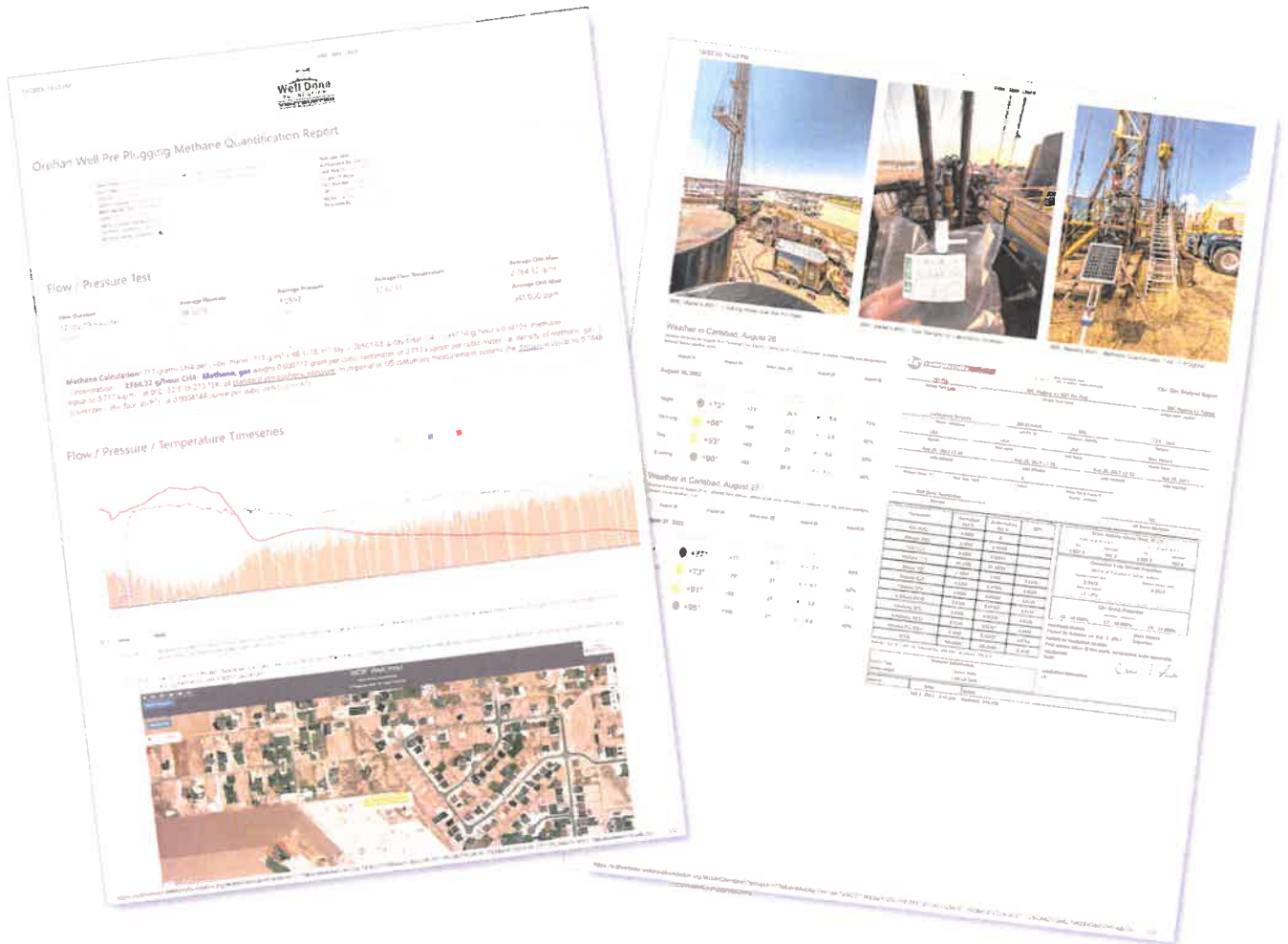
### COMPLIANCE WITH DOE REQUIREMENTS

The Atlas/360/Well Done Team has introduced a compliance checklist approach to ensure adherence to DOE Pre- and Post-Plugging Methane Measurement Guidelines dated April 2024. This checklist has been designed to streamline the data acquisition process and utilizing Well Intel real time tracking and monitoring to ensure that all necessary steps are followed in the field. By using this checklist, the team can efficiently track and verify that every required action is completed, reducing the risk of oversight.

# PHASE 3 POST-PLUG MEASUREMENTS (4.2.1.2)

The Post Plug Measurements for this project will be conducted, preferably in well groups for efficiency, after the plugging operations report that cement has reached the surface and the well casing has been cut off below ground level. Atlas/360/Well Done post-plug measurement teams will then be dispatched to carry out the post-plug methane measurements. Once these measurements are completed, a green ribbon will be placed on the casing, indicating that the well is “good to go” for the installation of the monument plate.

The Atlas/360/Well Done Team then prepares a Post-Plug Report like the example below for delivery to WVDEP.



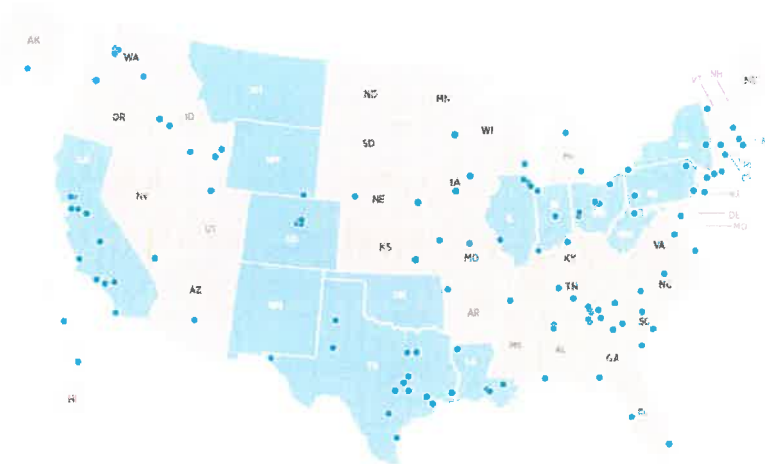
### Methane Quantification (4.3.1.3)

Curtis Shuck, QMS will facilitate and oversee the day-to-day measurement and monitoring activities for this project. As a Senior QMS, Curtis brings extensive experience in the required processes and workflows for data collection, management, and documentation to meet the DOE's requirements. His role is critical in ensuring that projects remain on track with WVDEP's well Plugging and Abandonment (P&A) scheduling objectives.

While each state has unique processes and procedures for data and document management, the core workflows remain consistent. The Atlas/360/Well Done Team collaborates closely with well engineering teams and regulatory agencies to prepare and submit Pre- and Post-Plugging Reports for well abandonments. In some cases, such as with the State of New Mexico, Well Done played a key role in designing the platform for Pre- and Post-Plugging Methane Quantification Reporting as part of the IJJA Program and continues to manage the data input process.

In the field, the Atlas/360/Well Done Team measures and monitors methane emissions both pre- and post-plugging, using methane quantification instrumentation approved by the ACR and DOE Orphaned Wells Program Office. These measurements adhere to the Methane Measurement Guidelines for Marginal Conventional Wells, U.S. Department of Energy, Version 1, April 17, 2024.

The Atlas/360/Well Done Team is involved in every step of the data process, from field troubleshooting and maintenance of the methane quantification instrumentation to data transmission, storage, and presentation for orphaned well projects across 14 states as shown on the map below.



In every case, projects are tracked and data are managed through the WDF Well Intel IoT platform, which enables real-time data viewing and offers features such as project progress tracking, field reports, image uploads, safety documentation, and more. Access to Well Intel will be granted to the entire project team, including WVDEP. The Atlas/360/Well Done Team uses industry-proven, DOE- and ACR-approved direct-emission, point-source measurement techniques and equipment, including hand-held natural gas detectors, high-flow samplers, and Ventbuster instruments. **These tools are capable of detecting and quantifying methane emissions at leak rates as low as 1 gram per hour, making them suitable for monitoring orphaned well sites.**

A key tool in our arsenal is the Ventbuster ultra-low flow methane detection and monitoring system, originally developed in Canada to comply with Alberta's stringent oilfield emissions standards (AER Directive 20 and Directive 87). The Ventbuster is a two-piece instrument designed to measure gas flow rates, pressures, and temperatures from venting gases at orphaned wells. It consists of a vent-mounted sensing head and a control or communication unit. The Ventbuster system can measure flows ranging from 0.04 ml/min to 720 m<sup>3</sup>/day (25.4 mcf/d) under ambient conditions of -40°C to +55°C (-40°F to +130°F) and is pressure-rated up to 7000 kPag (1000 psig).

The Ventbuster system is controlled by a dedicated data acquisition system that provides supervisory control, performs calculations, and offers a user interface. The Communications Unit includes an on-board computer that displays parameters such as flow rate, pressure, and temperature, along with alarms and status notifications. The system is operated via a keypad or a Bluetooth-based Android app, allowing for easy data entry and download, even in remote locations. The Ventbuster sensor head contains pressure and temperature sensors, a flow sensor, and valves for flow and shut-in modes, all connected via a signal and power cable to the Communication Unit, which is safely located outside hazardous areas.

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Well Done holds exclusive rights for deploying the Ventbuster system in the United States and actively uses it for baseline reporting on hundreds of orphaned and abandoned oil and gas wells. The system is in the process of being certified for use in the ACR Methodology for quantifying, monitoring, reporting, and verifying greenhouse gas emissions reductions from plugging orphaned wells.

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It is crucial to distinguish between simply detecting the presence of gas and accurately determining its concentrations and emission rates. While handheld devices like gas sniffers and OGI cameras are useful for detecting gases, **precision instruments like the Ventbuster are necessary for accurate methane emissions quantification.** These instruments are specifically designed and calibrated to measure both micro and macro flows of methane, differentiating it from other greenhouse gases commonly found at orphaned wells.

Accurately determining the methane emissions rate requires both concentration measurement and a flow measurement. A simple equation is shown below and in the following Test Report from an IJJA Project in New Mexico:

To quantify methane emissions, both concentration and flow measurements are required. The Atlas/360/Well Done Team will use the following equation for this calculation:

$$V_{\text{methane}} = C_{\text{methane}} * V$$

Where V methane is the methane-specific flow rate from the well, C methane is the measured concentration of methane from the well, and V is the total flow measured from the orphaned well.

The DOI guidelines specifically reference the use of Ventbuster instrumentation for documenting flow and methane concentration measurements. The Atlas/360/Well Done Team will also review and incorporate any data requirements referenced by WVDEP, as applicable.

## Plugging Prioritization Plan Implementation and Selected Wells (4.2.1.3)

- **Well Selection (“selected wells”)** will be completed with the nominated well list including MEQ pre-plugging data using the PRIMO program prioritization tool developed by NETL.
- **Permitting** will be completed for all selected wells, it is understood that the responsibility to obtain all required permits associated with the plugging of selected wells lies with the owner/operator of the MCW.

The Atlas/360/Well Done Team will proactively identify the potential need for additional permits from any state and/or federal agency having jurisdiction over project activities and facilitate permit activities and ensure efficiency of Agency-led plugging strategies.

The Atlas/360/Well Done Team will coordinate directly with both the Agency and the owner/operator of selected MCWs to ensure that all permits are obtained within appropriate timelines.

- **MCW P&A** projects will be performed based on the list of selected wells provided by the Atlas/360/Well Done Team. The Agency will offer for solicitation well plugging contracts through its defined purchasing procedures. The Agency will also provide compliance oversight of all field activities through the use of its inspection and enforcement staff as well as supplemental quality assurance through the use of its Supplemental Quality Assurance (SQA) contract.

Developed from extensive experience, an effective MCW prioritization process to decide upon a list of “selected wells” to plug and abandon (P&A) involves systematically identifying wells that are no longer economically viable and pose risks. The process should balance economic, technical, regulatory, and environmental considerations. For the purposes of this grant program, MCWs are defined as idle or producing onshore vertical (or slightly deviated) oil or natural gas wells (excluding highly deviated or horizontal wells) with a known owner/operator producing less than or equal to 15 barrels of oil equivalent per day (BOED) and/or 90 thousand cubic feet (mcf) gas per day (1 BOE = 6 mcf) over the prior 12-month period. This process was described in the well Nomination Process description and builds upon that process to develop a prioritized well list.

The Well Intel v3 IoT Platform Profile Document is provided.

### Benefits

- **Cost Efficiency:** Reduces financial burden by targeting uneconomical wells for P&A.
- **Environmental Protection:** Prevents contamination and long-term liabilities.
- **Regulatory Compliance:** Ensures adherence to evolving P&A regulations.
- **Operational Streamlining:** Focuses resources on productive assets while decommissioning liabilities.

### Timeline

A proposed timeline for each stage of the nomination process is presented as follows:

#### Well Plugging Prioritization Plan Development

Well prioritization will be performed using the PRIMO NETL tool and will reflect all data collected. We estimate that the prioritization process will take up to 3 months to complete in order to deliver a prioritized well list to the Agency (i.e., a list of Selected Wells).

**ETWP and NRHP** compliance will be assured. It is understood that the Agency has the responsibility to ensure that activities funded by its MERP grant are not likely to jeopardize species listed on the Federal List of Endangered and Threatened Wildlife and Plants or result in the destruction or adverse modification of critical habitat designated for Federal Endangered and Threatened Wildlife and Plants.

- It is understood that no activities funded under this MERP grant may impact any historic property listed in (or eligible for) listing in the National Register of Historic Places.
- The Atlas/360/Well Done Team will have the responsibility of implementing the Agency’s plan to identify “locations of concern” for selected wells and comply with the following regulatory requirements.
  - Endangered Species Act (“ESA”).
  - National Historic Preservation Act (“NHPA”), or other applicable statutes.
  - The Atlas/360/Well Done Team will act on the Agency’s behalf to initiate Section 106, Section 7, or other similar reviews.

- The Atlas team will make use of tools including, but not limited to, the U.S. Fish and Wildlife Service (FWS) Information for Planning and Consultation (IPaC) database, the WV State Historic Preservation Office Interactive Map Viewer, etc.

**Permitting (4.2.1.4)** will be completed for all selected wells, it is understood that the responsibility to obtain all required permits associated with the plugging of selected wells lies with the owner/operator of the MCW.

- The Atlas team will proactively identify the potential need for additional permits from any state and/or federal agency having jurisdiction over project activities and facilitate permit activities and ensure efficiency of Agency-led plugging strategies.
- The Atlas team will coordinate directly with both the Agency and the owner/operator of selected MCWs to ensure that all permits are obtained within appropriate timelines.

We routinely provide permitting requirement summaries for our clients. Our staff research the project and needs and identify the likelihood that state or federal permits for wetlands and other natural resources, including Threatened and Endangered (T&E) species; cultural resources approvals; floodplain or stream permits; erosion and sedimentation control permits, and summarize these in tables. Our staff also research local permits such as road widening, curb cuts and building permits. We provide approximated permitting timelines as well. We understand that the Agency has partnered with the DOE's National Energy Technology Laboratory (NETL) to use the PRIMO software developed for this grant.

The Atlas/360/Well Done team will review the National Register of Historic Places, National Historic Landmarks, and historical documentation (tax records, aerial photographs, Sanborn Fire Insurance Mapping, and topographical maps) *as well as perform onsite reconnaissance to document the conditions of the site and surrounding area.*

The project area is generally defined by the specific area in which the well is located, and project needs for access, laydown areas and maneuvering of construction equipment. Atlas staff will use readily available published information on natural resources, cultural resources,

floodplains, streams, vegetation, soils and listed species to identify potential resources located in the identified project areas plus an additional 100 feet outside the study area. If potential impacts to resources in any category cannot be ruled out through desktop analyses, A site visit will be necessary to conduct appropriate assessments of existing conditions (e.g wetland delineations, stream assessments, cultural resources and T and &E species surveys) to determine the presence of and locations of any potentially impacted resources. Results will be transmitted as reports to both the owner/opeators and agencies, to begin initiate permitting discussions.

**Areas of Potential Effect (APE)** will be determined in consultation with the client and SHPO and will be based on the nature of the project activities. It is expected that for this project, the plugging of MCWs will have minimal potential to impact historic and archaeological resources, and the APE will be related to the construction limits. Ground-disturbing activities may require archaeological investigations. The WV SHPO online GIS map will be consulted to determine the presence and location of any previously-surveyed historic and archaeological resources. The project team will prepare a draft recommended APE for each project site for review and approval by the client and SHPO. Due to the repetitive nature of the project activities, it may be advisable to negotiate a programmatic agreement with the SHPO, establishing a standard approach to Section 106 review of MCW capping sites.

The action area is generally defined by the specific area in which the well is located, and project needs for access, laydown areas and maneuvering of construction equipment. Atlas staff will review USFWS Species fact sheets to determine suitable habitats for listed species and will conduct an onsite inspection for such habitats and determine if they would be impacted by proposed site activities.

The Area of Potential Effects (APE) is defined as that geographic area within which a project may directly or indirectly affect the character or use of historic properties. Direct effects generally include activities that could potentially disturb historic or cultural resources, for instance, ground disturbances that could expose artifacts. Indirect effects includes changes to the viewshed of an historic resource, increased noise, effects of excavations, etc. We anticipate that the main effects of concern will be

direct effects, removal of any abandoned well equipment or structures should only improve the local viewshed, and construction effects will be short-lived. Thus, the APE will be generally defined by the specific area in which the well is located, and project needs for access, laydown areas and maneuvering of construction equipment.

West Virginia has no resident Federally recognized Indian tribes. However, a number of Federally recognized tribes have indicated an interest in being informed of projects in West Virginia. Tribal consultation must be conducted by the Lead Federal Agency in recognition of the United States' government-to-government relationship with Federally recognized tribes. The project team will work with the SHPO to identify interested tribes and will prepare draft materials for the client and Lead Federal Agency to inform interested tribes of the project and its anticipated effects on historic and archaeological resources.

Each submission to the SHPO or THPO is afforded a 30-day review period, in addition to any internal reviews and revisions conducted by the project team and client.

1. Identify project need and area.
2. Define APE
3. Analyze available data on resources
  - Transmit data to owner/operator and agencies
  - Determine need for field work
  - Conduct field ID of resources
  - iPrepare report, transmit
4. Determine need for permitting
5. Develop and submit permits

Documents can be submitted within 2 weeks of Atlas' site reconnaissance. SHPO will have a 30 day review period from receipt.

## Monthly Reports and Quarterly Meetings

(4.2.2.1 and 4.2.2.2)

- The Atlas/360/Well Done Team understands that attendance and progress updates at quarterly meetings may be required.
- Monthly reports will include but not be limited to a summary of all project activities undertaken in the previous month and will include detail of all billable units. Monthly reports will be provided to the Agency no later than five working days after the last day of the reporting period and will include:
  - ▶ Number of wells plugged,
  - ▶ Mitigated methane emissions,
  - ▶ Acres of land restored or remediated, etc.
- Deliverables will include file types agreed upon by the Agency and may include electronic files, PDFs, comma-delimited formats, or other formats, and/or paper copies, as appropriate to meet the Agency's needs.

The Atlas/360/Well Done Team will attend CBC meetings and understands these meetings will be mostly virtual but may from time to time need to be attended in person.

- We understand that the Administrator will be responsible for all mileage and travel costs, including travel time, associated with performance of this Contract. Any anticipated mileage or travel costs may be included in the flat fee or hourly rate listed on Vendor's bid, but such costs will not be paid by the Agency separately.
- We have assembled a team that has extensive experience in planning and conducting NEPA and NHPA public meetings for infrastructure projects. We have planned workshop-style public meetings for various WVDOH bridge replacement and roadway projects, including creating draft and final presentations, displays and handouts, advertising meetings, talking one-on-one with meeting attendees, and receiving and compiling written comments.

### 3 | QUALIFICATIONS AND EXPERIENCE (4.3 and 4.3.2)



#### PURPOSE-BUILT TEAM

*We have assembled a team that has extensive experience in planning and conducting NEPA and NHPA public meetings for infrastructure projects. We have planned workshop-style public meetings for various WVDOH bridge replacement and roadway projects, including creating draft and final presentations, displays and handouts, advertising meetings, talking one-on-one with meeting attendees, and receiving and compiling written comments.*

The Atlas/360/Well Done Team combines extensive national experience in orphaned and abandoned and Marginal Conventional well projects with exceptional regional expertise and substantial resources. Atlas understands the scope and importance of this work, as well as the need to be available and responsive. To meet these demands, we have carefully assembled a team with the ideal mix of technical resources, capacity, and equipment. Our key personnel are highlighted in the team organization chart on the following page, followed by brief profiles showcasing their experience. Full resumes are provided in Appendix B, along with applicable certifications in Appendices C and D.

Perhaps the best indicator of our commitment to WVDEP is our team's staff who live in the region and take pride in being part of projects that improve their communities. [The Atlas team has more than 380 staff and 43 offices within West Virginia and adjacent states to serve this contract.](#) Our deep local and regional presence enables our team to quickly respond with the right resources to any need that may arise.

*The Atlas/360/Well Done Team have no business relationships or other partnerships which would introduce conflicts of interest related to well ownership or operatorship.*



#### PROJECT IMPLEMENTATION (4.3.1.1)

##### Method

As a leading nationwide provider of environmental and engineering services, Atlas supports a wide range of world-class and high-performing public and private organizations with similar goals. This experience has informed us that successful execution of multi-disciplinary, environmental engineering contracts requires a flexible, team-based, networked organization. Flexible to adapt to complex environments and satisfy the objectives of multiple stakeholders, team-based to provide the depth and breadth of program management, environmental engineering services and aligned objectives, and networked to capitalize on standardized processes and platforms necessary to provide consistent, comprehensive, and cost-effective services.

A scientifically-based approach to the well and lease restoration challenge offers the greatest potential risk reduction per dollar spent and maximizes the return on this critical investment. To accomplish this objective, Atlas crafted a team consisting of in-house personnel,

seasoned drilling and abandonment subcontractors, and specialty service providers necessary to support the program from planning through execution. The Atlas team composition and experience is tailored to facilitate project management, streamline environmental reviews and investigation, customize well-specific plugging and abandonment techniques, and cost-effectively complete decommissioning and site restoration and remediation to ensure protection of human health and the environment. Atlas takes into account the information provide by the client in order to establish the specific process details for each program in as much as the regulator may have completed some these tasks. The overall logical process progression can be summarized as follows.

##### Well Profile

The initial phase of work includes development of a comprehensive inventory and database of well locations and baseline conditions. This information will be used to establish the next phase of work. In this phase, desktop work is performed for each well.

### Well Location Profile

A well location profile is established by accessing and reviewing available paper and digital records including but not limited to:

- API number
- Chain-of-title report including leases and environmental liens
- Verify data in the electronic database
- Determine the well diameter
- Depth to the bottom of the casing
- Determine the water bearing zones

### Preliminary Site Assessment

Atlas conducts thousands of Phase I ESAs each year for clients. For the purpose of this engagement, Atlas recommends completing a desktop preliminary site assessment to assess the presence or absence of indicators of potential environmental concerns at each well site. Recommendations, if necessary, for further investigation will be based on elements of ASTM E1527 21.

### Field Reconnaissance

An initial reconnaissance trip to each proposed well abandonment location is planned and conducted. The objectives of this phase of work includes:

- Obtaining access agreements
- Obtain screening-level well gas emissions readings with a handheld meter to determine presence/ absence of hazardous emissions such as hydrogen sulfide to further establish baseline health and safety procedures and invoke contingency safety procedures if necessary
- Document the well condition/integrity and wellhead flange specifications
- Document the inventory of ancillary equipment (tanks, pumps, piping etc.), materials of construction and the equipment fluid contents
- Assess site conditions and environmental impacts to the surroundings in order to develop a site sampling plan and site map supported by representative photo-documentation
- Setup quantitative gas monitoring equipment to quantify flow, pressure and collect a sample for analysis of the volatile organic compounds present

### Return to the Site

A return to the site is planned and conducted to implement the sampling plan and further investigate the well. Further field efforts will/may include the following:

- Location and evaluation of underground utilities via GPR and/or other geophysical locating methodologies
- Down-hole well integrity/geophysical logging
- Integrity/geophysical logging will be used to identify possible complications, risks, or problems associated with each site in preparation for abandonment
- Shallow soil assessment and/or hand auger/direct push soil sampling to determine lateral and vertical extent of potential sumps, lease roads, piping, or other petroleum impacted oilfield features

### Risk and Ranking

With all the information and data collected from prior phases of work, the data is entered into a Risk Assessment and Ranking database. The database elements are described as follows:

- Risk scores for each well site are generated
- Each well site is then ranked according to its risk score in the database
- Well sites are organized by risk score and a listing can be generated organizing the sites from highest to lowest priority for abandonment / lease restoration. With a list of priority well locations, the Atlas team develops plans for plugging and abandonment along with site restoration in compliance with State program requirements

### Sensitive Receptors

The Site and/or Lease Restoration Plan (SRP) will identify the presence and location(s) of sensitive human and ecological receptors on or near the site based on information determined from field reconnaissance. This information is critical to planning and scoping activities to establish appropriate locations for vehicle access and temporary facilities, public notices, prevent disturbance of protected plants and wildlife, and establish appropriate monitoring locations to minimize impacts from storm-water runoff, fugitive dust generation, sound mitigation, or organic vapor emissions.

### Environmental Impact Assessments and Planning

Collaborative initiatives between the Atlas team and the client extend beyond the operational realm to include comprehensive environmental impact assessments and planning to embed sustainability in the plugging process. By jointly evaluating the potential ecological consequences of well plugging activities, we will work together to implement strategies and innovation that mitigate environmental risks.

### Infrastructure Management

Identify existing infrastructure and indicate if it is to be decommissioned and removed or retained, as applicable. Certain supplied utilities (e.g., electrical, water, LPG or natural gas) will be decommissioned and airgapped, as appropriate, per utility company and local/ State agency standards.

### Decontamination & Decommissioning

Certain infrastructure (e.g., pipelines, flow lines, tank batteries, and sumps) may require decontamination prior to decommissioning or removal. This section will include specifications and requirements for fluid-removal, decontamination procedures, and management of resulting residuals.

### Debris Staging, Recycling, and Disposal

Waste streams will be detailed and methods to allow for proper segregation, verification sampling (if needed), and required laboratory analyses will be established. Wastes will be stored in closed containers or covered stockpiles and managed in accordance with State, federal, and local rules and regulations. For waste streams that are free of debris or oil and do not require profiling (e.g. concrete, PVC, or metal/steel), preference will be given to recycling and/or reuse of material.

### Restoration Measures

The possible need for restoration measures will be influenced by the presence or absence of residual soil contamination, the surface area and topography of disturbed land, and the possible need to revegetate or stabilize the site to protect against excessive erosion. In addition, the restoration measures may consider requirements established by the landowner or adopted recommendations provided by third-party stakeholders.

### SRP Document Development

Atlas anticipates that a Draft SRP template will be prepared early in the project engagement detail and provided to the Client for review, comment and revision. After the Draft SRP template has been approved, site-specific Draft SRP's would be developed to reflect the unique attributes, characteristics, requirements, and unique restoration measures that may be applicable to each individual site. The draft site-specific SRP will be provided to the client and, if applicable, third-party

stakeholders for solicitation of comments and subsequent finalization and adoption. Atlas understands that the scope of work will involve the plugging and abandonment of 400 potentially high risk wells, and additional wells may be identified under a pursuit of future Task Orders. The Atlas team understands the well plugging and abandonment requirements.

*The Atlas team has a successful history of thousands of Orphan and Owned Well plugging and abandonment (P&A) projects across North America. Where P&A design and management is largely performed by the well owner, the Atlas team has stepped into that role for orphan wells as exemplified over the last four years in North America. Complex Well Abandonments and Fishing*

### Operations

- Complex wells, characterized by compromised well bores resulting from issues such as damage or parted casing, pose challenges for conventional well abandonment methods. These challenges hinder the isolation of production zones, necessitating alternative approaches.
- Critical data prior to well abandonments includes well history, well depths (measured and vertical), casing sizes, deviations, bottom hole temperatures, downhole production equipment, wellhead configuration, production zones/depths, top of hydrocarbons, and base of usable fresh water. Critical information during abandonments is a detailed list of production equipment pulled from the well including isolate equipment if measurable NORM levels, ED tag for the client (rig or coil), plug setting depth and length, plug information, plug tag witnessed by the client including perforations (if needed) depth and shots per foot and surface cement witnessed by the client.

Equipment troubleshooting in the collection of pre and post-methane emissions data at well sites includes the maintenance procedures for equipment mobilization involve several key components to ensure efficiency and reliability. A verifiable maintenance program with a detailed schedule is established, encompassing visual inspections, maintenance history reviews, calibrations, and certificate validations before equipment is mobilized. The program incorporates a structured routine, including daily, weekly, and monthly inspections to systematically

assess equipment condition. Additionally, a critical parts list is implemented to minimize non-productive time by prioritizing essential components for attention and replacement. This comprehensive approach aims to enhance equipment performance and longevity, contributing to a seamless operational workflow.

### Timeline

A typical timeline we would apply to a program like this is as follows:

#### Year 1 (September 1, 2024 - August 31, 2025)

- **September 2024:** Project initiation, kick-off meeting, and team formation
- **October - December 2024:** Detailed project planning, including scope, schedule, and budget finalization
- **January - March 2025:** Initial procurement of resources and beginning of preliminary site work
- **April - June 2025:** First phase of implementation, with key deliverables being developed
- **July - August 2025:** Review and assessment of first year's progress, adjustments to the plan if necessary

#### Year 2 (September 1, 2025 - August 31, 2026)

- **September - November 2025:** Continued implementation, focusing on key milestones and deliverables
- **December 2025:** First major review and assessment, ensuring alignment with goals and objectives
- **January - March 2026:** Completion of initial major deliverables, including any necessary adjustments
- **April - June 2026:** Continued development and refinement of project components
- **July - August 2026:** Second-year review and assessment, adjustment of plans as necessary

*Note: By the end of Year 2, we will have spent 25% of the total budget to ensure capital efficiency.*

#### Year 3 (September 2026 - August 2027):

- **September - December 2026:** Continued implementation, with focus on refining and enhancing deliverables
- **January - March 2027:** Mid-project review and adjustment of strategies as needed
- **April - June 2027:** Continued work on key project components
- **July - August 2027:** Annual review and planning for the next year

#### Year 4 (September 2027 - August 2028):

- **September - December 2027:** Continued implementation, addressing any mid-project challenges
- **January - March 2028:** Finalization of major components, preparation for project closure phase
- **April - June 2028:** Testing, validation, and refinement of deliverables
- **July - August 2028:** Annual review and planning for the final year

#### Year 5 (September 2028 - August 2029):

- **September - December 2028:** Final implementation phases, addressing any remaining tasks
- **January - March 2029:** Final review, testing, and validation of all deliverables
- **April - June 2029:** Preparation of final reports, documentation, and project closure activities
- **July - August 2029:** Project closure, including final assessments, handover, and completion documentation

*Note: The remaining 75% of the budget will be spread evenly across Years 3-5.*

### Foreseeable Delays and Major Obstacles:

- **Willingness of Operators** to self-disclose methane emissions
- **Initial Planning and Procurement Delays:** Potential delays in the initial phases due to unforeseen procurement issues or detailed planning adjustments.
- **Resource Availability:** Availability of key resources and personnel could impact timelines, especially in the early stages.
- **Regulatory and Compliance Issues:** Navigating regulatory requirements and ensuring compliance could introduce delays.
- **Technological Challenges:** Unforeseen technological challenges or the need for significant adjustments to the project scope could impact progress.
- **Permit Approval**
- **Stakeholder Engagement:** Ensuring continuous stakeholder engagement and managing expectations can be challenging, especially if there are significant changes to the project plan.
- **Risk Management:** Managing and mitigating risks throughout the project life-cycle will be critical to avoiding major delays. By front-loading 25% of the

budget within the first two years, we aim to establish a strong foundation and ensure capital efficiency, reducing the risk of delays in the later stages. This strategic allocation will support the timely completion of key milestones and provide the flexibility to address any unforeseen challenges effectively.



### Safety Protocols Health and Safety Plan, Job Hazard Analysis, Emergency Response Plan

Atlas develops a comprehensive, site-specific Health and Safety Plan for every project before beginning fieldwork. The HSP is Atlas' primary mechanism to increase employee, environmental, and public safety at the project site. All individuals working under the purview of Atlas are required to review and sign the HSP to acknowledge their understanding of the information contained within. Each HSP is both site-and task specific.

### Safety Meetings

Atlas conducts mandatory daily morning "Tailgate" safety meetings with all crew members and subcontractors. The meetings include input from crew members that are encouraged to bring potential safety concerns to light and shared learning from current and past projects, as well as the discussion of standard protocols such as safe driving, emergency procedures, evacuation areas and various additional relevant topics specific to the site. The meeting forms are signed by all participants and are retained by Atlas. Job Safety Analyses are subsequently reviewed at the daily meeting.

### Equipment and Techniques

Atlas has thoughtfully curated a team that offers the optimal combination of extensive experience in orphan well plugging, abandonment, and restoration services, proven delivery of state and federal programs, and deep regional resources. Our team brings proven performance

on orphan well closure in North America, along with specialized services to meet the clients needs. Our cohesive, best-in-class team brings demonstrated experience with complex, multi-site well program management projects and synergies developed over many years of working together to successfully deliver similar work in multiple states.

### Experience

#### Well plugging and abandonment projects:

- 25,000+ operator-owned and orphan sites in North America
- DOI- and DOE-compliant measurement and monitoring of 1,600+ wells in 14 states and 3 provinces
- 17,000+ well closures in the last 4 years

**WHAT THIS MEANS TO YOU:** Our extensive experience in well plugging and abandonment projects throughout North America enables us to leverage best practices and innovative solutions that translate to efficient delivery, maximizing the number of wells closed with available funding.

#### State and Federal Program Delivery:

- Managing orphan and marginal well programs in 16 states
- Leading 19 state and federal petroleum programs

**WHAT THIS MEANS TO YOU:** Our successful delivery of North American state, federal, and provincial programs for petroleum-related work—including orphan and marginal well programs in multiple states and provinces—means we know how to navigate complex requirements and can anticipate issues before they arise, thus maintaining critical budgets and schedules.

## KEY TEAMING PARTNERSHIPS

Atlas has intentionally crafted our team to include teaming partners with the optimal mix of well plugging and abandonment expertise, deep resources and capacity, equipment, and proximity in West Virginia to address any need that may arise. Our key partners include:

**360 CONSULTING (360).** Extensive well plugging and abandonment experience. To date, 360 has abandoned 5,700+ wells, executed 29,000 environmental site closure activities, and assessed \$20+ billion in asset retirement obligations totaling 150,000 wells across the US, Canada, and Argentina. <https://360eec.com>

**WELL DONE.** Extensive experience conducting IJJA and DOI- and DOE-compliant measurement and monitoring of 1600+ wells across 14 states; leading the largest program of this kind in NM. Well Done is at the forefront of carbon credit project development for plugging and abandonment of oil and gas wells and can provide a carbon credit option for optimizing contract budgets resulting in the ability to plug more wells. <https://welldonefoundation.org>

### AURORA RESEARCH ASSOCIATES, LLC.

Two regional locations with Ms. Zimmerman, an architectural historian and licensed professional engineer, along with three specialized employees.

## Communication and Reporting

Atlas places a high value on clear and consistent communication and prefers a single point-of-contact approach. At a minimum, Atlas suggests that Teams Meetings be established on at least a monthly and more frequently when field activities are underway.

For example, during a recent oil well assessment and sump remediation project, Atlas provided daily verbal status updates and written weekly status reports to the client. While these meetings will be led by the Atlas Project Manager, participants may also include other members of the Atlas Project Management Team, specialty subcontractors, and subject matter experts as may be necessary to solicit input, provide feedback, and confirm action.

Examples of other routine communication and reporting tools may include formal project schedule updates (baseline to actual), project accounting (spend relative to budget, percent complete, earned value), and to support capture of program metrics relative to required federal, GHG reduction, workforce development, and disadvantaged community benefits.

The WDF Well Intel data platform provides real-time communication on methane measurements, environmental data, and prioritization rankings.

## Laboratory Services



### Pace Analytical Services

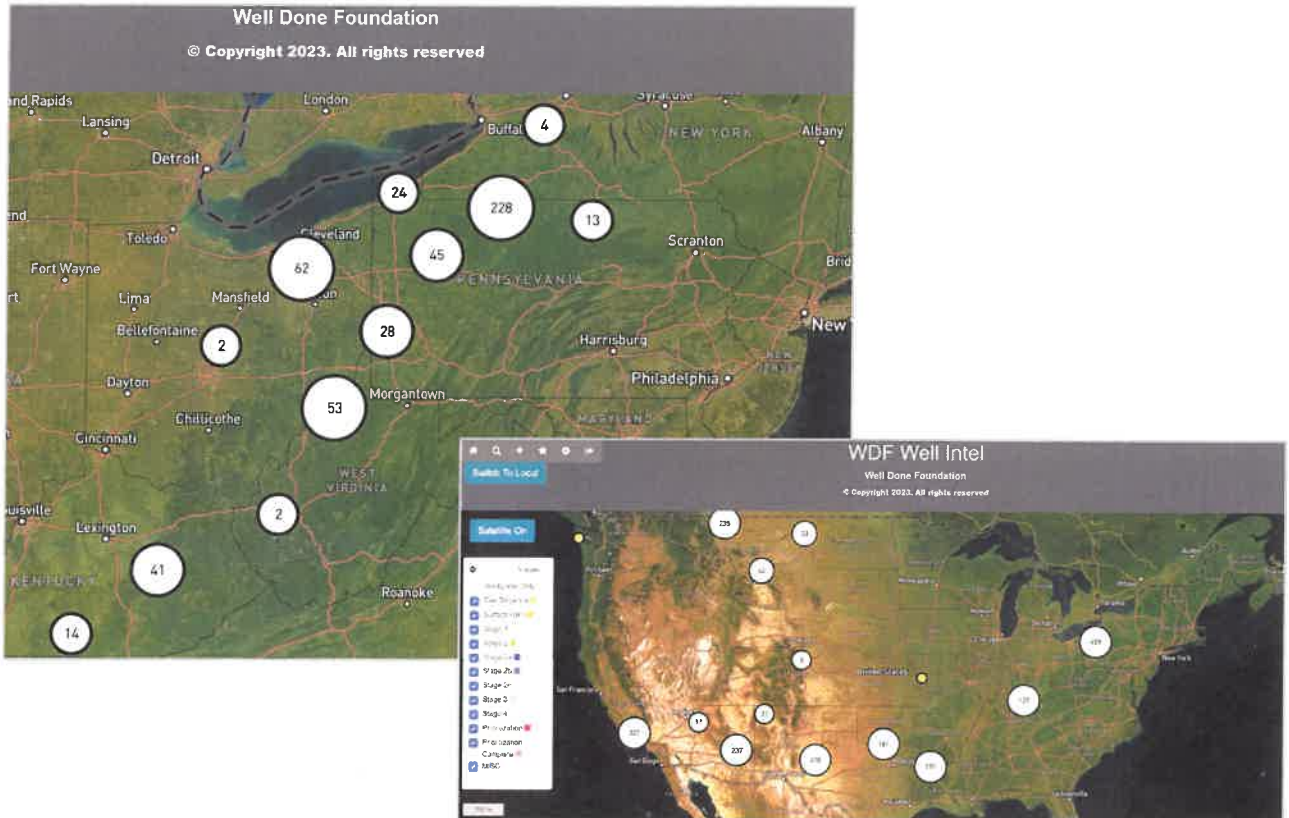
- 3 West Virginia locations
- 12 additional locations regionally
- 83 locations and 3,500+ employees nationwide



### Critical Control Technologies

- 2 West Virginia locations
- 3 additional locations regionally
- 8 locations and 150+ employees nationwide

The Atlas team is involved in every step of the data process, from field troubleshooting and maintenance of the methane quantification instrumentation to data transmission, storage, and presentation for orphaned well projects across 14 states as shown on the map below.



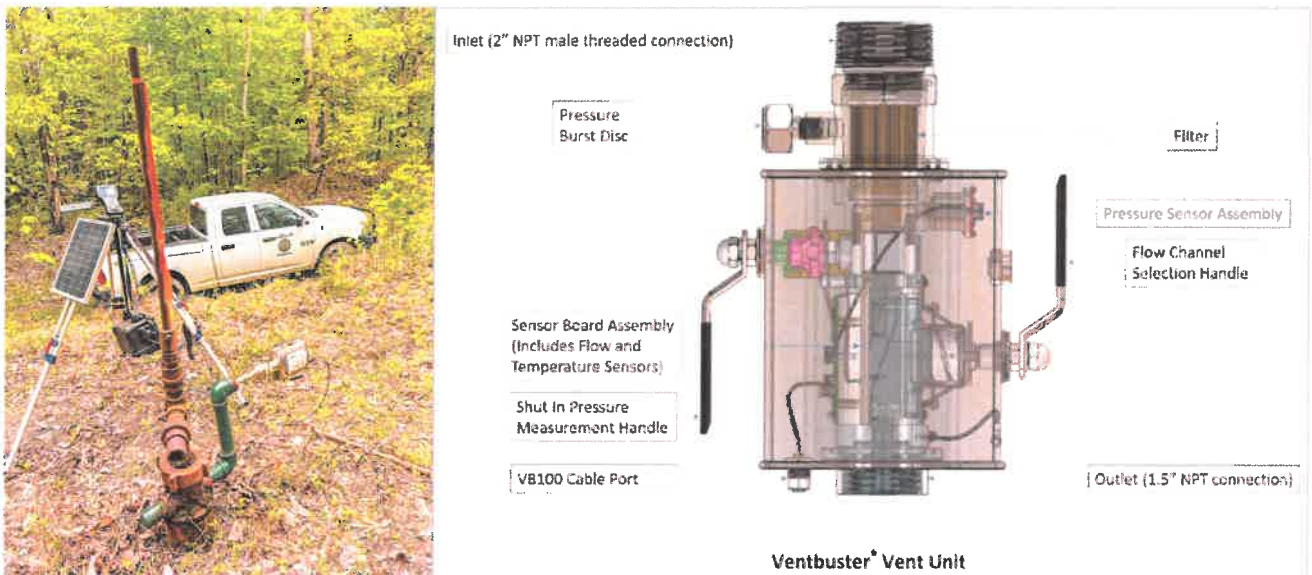
In every case, projects are tracked and data are managed through the WDF Well Intel IoT platform, which enables real-time data viewing and offers features such as project progress tracking, field reports, image uploads, safety documentation, and more. Access to Well Intel will be granted to the entire project team, including WVDEP.

The Atlas/360/Well Done Team uses industry-proven, DOE-, DOI-, Carbon Path-, and ACR-approved direct-emission, point-source measurement techniques and equipment, including hand-held natural gas detectors, high-flow samplers, and Ventbuster instruments. **These tools are capable of detecting and quantifying methane emissions at leak rates as low as 1 gram per hour, making them suitable for monitoring orphaned well sites.**

A key tool in our arsenal is the Ventbuster (exclusive to WDF in USA) ultra-low flow methane detection and monitoring system, originally developed in Canada to comply with Alberta's stringent oilfield emissions standards (AER Directive 20 and Directive 87). The Ventbuster is a two-piece instrument designed to measure gas flow rates, pressures, and temperatures from venting gases at orphaned wells. It consists of a vent-mounted sensing head and a control or communication unit. The Ventbuster system can measure flows ranging from 0.04 ml/min to 720 m<sup>3</sup>/day (25.4 mcf/d) under ambient conditions of -40°C to +55°C (-40°F to +130°F) and is pressure-rated up to 7000 kPag (1000 psig).

The Ventbuster system is controlled by a dedicated data acquisition system that provides supervisory control, performs calculations, and offers a user interface. The Communications Unit includes an on-board computer that displays parameters such as flow rate, pressure, and temperature, along with alarms and status notifications. The system is operated via a keypad or a Bluetooth-based Android app, allowing for easy data entry and download, even in remote locations. The Ventbuster sensor head contains pressure and temperature sensors, a flow sensor, and valves for flow and shut-in modes, all connected via a signal and power cable to the Communication Unit, which is safely located outside hazardous areas.

Well Done holds exclusive rights for deploying the Ventbuster system in the United States and actively uses it for baseline reporting on hundreds of orphaned and abandoned oil and gas wells. The system is in the process of being certified for use in the ACR Methodology for quantifying, monitoring, reporting, and verifying greenhouse gas emissions reductions from plugging orphaned wells.



The Ventbuster system is DOE-certified for use in IRA in accordance with DOE methodology and meets DOE guidelines. Precision instruments like the Ventbuster are necessary for accurate methane emissions quantification.

It is crucial to distinguish between simply detecting the presence of gas and accurately determining its concentrations and emission rates. While handheld devices like gas sniffers and OGI cameras are useful for detecting gases, **precision instruments like the Ventbuster are necessary for accurate methane emissions quantification.** These instruments are specifically designed and calibrated to measure both micro and macro flows of methane, differentiating it from other greenhouse gases commonly found at orphaned wells.

Accurately determining the methane emissions rate requires both concentration measurement and a flow measurement. A simple equation is shown below and in the following Test Report from an IIJA Project in New Mexico:

**Methane Calculation:** 717 grams CH4 per cubic meter (717 g/m<sup>3</sup> x 174.9683 m<sup>3</sup>/day - 125452.27 g/day total/24 = 5227.18 g/hour x 0.21657 (methane concentration) = **1132.05 g/hour CH4**). **Methane, gas** weighs 0.000717 gram per cubic centimeter or 0.717 kilogram per cubic meter, i.e. density of *methane, gas* is equal to 0.717 kg/m<sup>3</sup>; at 0°C (32°F or 273.15K) at standard atmospheric pressure. In imperial or US customary measurement system, the density is equal to 0.0448 pound per cubic foot [lb/ft<sup>3</sup>], or 0.0004144 ounce per cubic inch [oz/inch<sup>3</sup>].

To quantify methane emissions, both concentration and flow measurements are required. The Atlas/360/Well Done Team will use the following equation for this calculation:

$$V \text{ methane} = C \text{ methane} * V$$

Where V methane is the methane-specific flow rate from the well, C methane is the measured concentration of methane from the well, and V is the total flow measured from the orphaned well.

## PRE-PLUGGING METHANE SCREENING AND MEASUREMENT PROTOCOL

### Rig Up M&M Instrumentation

1. Power up/on personal gas monitoring device (H2s) and perform "bump test."
2. Power up/on methane screening/detection devices.
3. Log time of well site arrival.
4. Position vehicles and equipment in a safe location with a clear egress.
5. Rig up wind directional indicator.
6. Position fire safety equipment.
7. Perform job hazard analysis.
8. Ensure proper PPE is in place and conduct a well site walk.
9. Take well and site photos (north facing, east facing, south facing, west facing, wellhead, tanks, etc.).
10. Rig up SEMTECH(r) Hi-Flow2 for a leak background test.
11. Collect gas sample(s) for laboratory analysis, marking date, time, well name, well number.
12. Take photo of gas sample @ well sign, wellhead.
13. Secure gas sample(s) in a designated storage device (cooler) and complete chain-of-custody form.
1. Rig up Ventbuster unit to the orphaned well using one of three configurations, zero the VBI device flow.
2. Prepare "start test" with complete metadata in ALL Fields, using well name, UWI and correct contract ID.
3. Start Ventbuster test on high flow (monitor flow results and prepare to zero and restart VB test in low flow).
4. Rig up other methane quantification devices as may be required/specified for the project.
5. Phone/text Joint Well Operations Center (JWOC) for VBI test start confirmation.
6. Write field notes in personal journal.
7. Record field notes in the WDF Well Intel site.
8. Record well site weather observations (temp, humidity, pressure, wind speed, wind direction).
9. Upload all Photos into WDF Well Intel site.
10. Place "test well" informational signage and other project required information at the well site.
11. Secure test location.
12. Record well site departure time in personal journal.

### Post-Plugging Methane Measurement

Once an orphaned or marginal well has been plugged, the Atlas/360/Well Done Team initiates the process of post-plugging methane measurement. Typically, testing occurs 48 hours after the final cementing operations are completed, allowing time for any residual ambient emissions from the plugging to disperse. The post-plugging test involves taking field gas readings using handheld methane detection devices at the plugged wellbore and in the surrounding areas. In some cases, water testing is conducted to visually detect signs of leakage. Additionally, the Atlas/Well Done Team uses a SEMTECH<sup>®</sup> Hi-Flow2 device to perform an ACR Post Plug Test. If methane is detected, the protocol is to immediately rig up a Ventbuster to the well casing to calculate the methane flow rate. The results of the post-plugging test will be promptly provided to the WVDEP team.

### POST-PLUGGING METHANE MEASUREMENT PROTOCOL

#### Rig Down M&M Instrumentation

1. Turn on gas monitoring device.
2. Log time of well site arrival.
3. Perform job hazard analysis.
4. Perform field gas analysis (using honeywell four gas meter).
5. Take photo of Gas Analysis Results from Honeywell four gas meter @ well sign.
6. Stop Ventbuster test.
7. Phone/text JWOC for VBI test end confirmation.
8. Rig down Ventbuster system @ wellhead or Dorothy DFC following VBI instructions.
9. Vacuum VBI flow meter and check for any fluid.
10. Write field notes in journal and WDF Well Intel site.
11. Upload any photos into WDF Well Intel site.
12. Place green ribbon @ wellhead and photograph.
13. Secure test location.

#### ACR Post Plug Check Report for ACR Post Plug Check [2024-06-14T11:54:27]: McCleary UNit #001 (34-153-21344)

##### Stastics

	Minimum	Average	Maximum
Stable CH4 Final Concentration	0 PPM	0 PPM	2 PPM
Stable Standard Volume Flow	682 SLPM	719 SLPM	740 SLPM
Stable CH4 Standard Volume Leak Rate	-0.00021 SLPM	0.00030 SLPM	0.00172 SLPM

##### Checks

Test Completion	COMPLETE
ACR Post Plug CH4 Concentration Check	PASSED

The Atlas/360/Well Done Team conducts each DOE Pre-Plugging Point Source Methane Quantification Test for a minimum of 6 hours, unless otherwise specified by WVDEP. This duration ensures sufficient time for the orphaned well to reach a “normalized flow” or to reveal any unique flow characteristics specific to the well. Similarly, each ACR Pre-Plugging Point Source Methane Quantification Test follows this 6-hour minimum to maintain consistency and accuracy in the data collected.

Methane quantification results are available immediately as “live data” to WVDEP through the WDF Well Intel IoT Platform. Completed tests are also cached in Well Intel

for review before formal submission to WVDEP. Well Done summarizes methane quantification results on an individual orphaned well basis and performs field/project averaging analysis to provide comprehensive insights.

**Efficiencies**

Our team of experienced partners works closely to ensure that all project tasks are orchestrated and executed efficiently, maximizing productivity across the full scope of work.

Prepared: 10.22.2023

**CSAU Orphan Well CH4 Averaging - Applied to the 2 Wells Outside Sample Set - CES**

Well Name	Well #	API #	County	Purchase Order	Gas Sample	CH4/PPM	Total LELs/PPM	CH4 Flow @ m3/day	Methane Emission @ g/hour	Post Plug CH4			
CSAU	557Y	30-005-29051	Chaves	52100-72995	24-Feb	216,570	378,410	174.97	1,132	Not Plugged			
CSAU	586	30-005-29025	Chaves	52100-72995	5-Mar	269,940	506,540	0.1488	1.20	0			
CSAU	587	30-005-29024	Chaves	52100-72995	2-Mar	114,100	340,098	6.4268	21.91	0			
<b>CSAU</b>	<b>57</b>	<b>30-005-10567</b>	<b>Chaves</b>	<b>52100-72995</b>		<b>48,847</b>		<b>7.31</b>	<b>44.97</b>	<b>0</b>			
CSAU	518	30-005-27963	Chaves	52100-72995	25-Jan	6,470	43,590	0.0261	0.01	0			
CSAU	517	30-005-27962	Chaves	52100-72995	25-Jan	37,770.00	136,100	4.1558	4.69	0			
CSAU	531	30-005-27974	Chaves	52100-72995	24-Jan	133,420	294,320	0	0	0			
CSAU	127	30-005-20071	Chaves	52100-72995	20-Jan	108,670	190,880	0.3232	1.05	0			
CSAU	533	30-005-2798	Chaves	52100-72995	26-Jan	0.00	5,350	0.0048	0	0			
CSAU	516	30-005-27973	Chaves	52100-72995	25-Jan	106,720	204,100	0.0155	0.05	0			
CSAU	532	30-005-27964	Chaves	52100-72995	24-Jan	2,730	32,040	0	0	0			
CSAU	98	30-005-10474	Chaves	52100-72995	18-Jan	0	5,850	0.0021	0	0			
CSAU	119	30-005-20103	Chaves	52100-72995	21-Jan	0	5,960	0.0009	0	0			
CSAU	560	30-005-28012	Chaves	52100-72995	4-Mar	2,350	15,450	0	0	0			
CSAU	520	30-005-28012	Chaves	52100-72995	25-Jan	4,950	18,510	0.1892	0	0			
CSAU	535	30-005-27983	Chaves	52100-72995	26-Jan	0	5,060	0.0554	0	0			
CSAU	100	30-005-20007	Chaves	52100-72995	18-Jan	250	4,230	0.0009	0	0			
CSAU	561	30-005-28029	Chaves	52100-72995	3-Mar	49,180	98,420	0.0635	0.09	0			
CSAU	558	30-005-28010	Chaves	52100-72995	24-Feb	1,600	34,090	0.0018	0	0			
CSAU	559	30-005-28011	Chaves	52100-72995	3-Mar	0	3,580	0	0	0			
CSAU	574	30-005-28017	Chaves	52100-72998	2-Mar	0	7,930	0	0	0			
CSAU	545	30-005-27984	Chaves	52100-72998	3-Mar	12,360	84,660	0.2143	0.08	0			
CSAU	573	30-005-28016	Chaves	52100-72998	3-Mar	19,500	198,440	1.0351	0.6	0			
<b>CSAU</b>	<b>877</b>	<b>30-005-29030</b>	<b>Chaves</b>	<b>52100-72998</b>		<b>48,847</b>		<b>7.31</b>	<b>44.97</b>	<b>0</b>			
CSAU	544	30-005-27986	Chaves	52100-72998	24-Feb	9,770	45,230	0.0296	0.01	0			
CSAU	822	30-005-29027	Chaves	52100-72998	26-Jan	42,190	65,930	0.0014	0.000	0			
CSAU	588	30-005-29027	Chaves	52100-72998	2-Mar	122,760	348,300	2.2454	7.560	0			
CSAU	534	30-005-27961	Chaves	52100-72998	25-Jan	8,730	157,700	0.1448	0	0			
<b>Total CSAU Wells</b>	<b>28</b>	<b>CSAU Well Sample Set</b>	<b>26</b>	<b>% of Total CSAU Wells</b>	<b>92.85</b>	<b>Total CH4 PPM</b>	<b>1,270,030</b>	<b>Total Explosive Gas PPM</b>	<b>3,230.788</b>	<b>Total Flow m3/day</b>	<b>190.0554</b>	<b>Total CH4 Emission g/hour</b>	<b>1,169.25</b>
						<b>Avg CH4 PPM</b>	<b>48,847.31</b>			<b>Average Flow m3/day</b>	<b>7.31</b>	<b>Total Avg CH4 Emission g/hour</b>	<b>44.97</b>

Example of methane qualification results for individual wells.

Quantifying methane for state regulatory agencies, as part of the IRA MCW MERP program, is such an important part of being able to show one of the critical return on investment (ROI) metrics for these projects, as well as being a prioritization tool for the regulators. It also helps us identify and communicate the scope of the problem and celebrate the successes of a responsibly plugged orphaned well and marginal well.

- Curtis Shuck, QMS  
Well Done



## PURPOSE-BUILT TEAM (4.3 and 4.3.2)

The Atlas/360/Well Done Team combines extensive national experience in orphaned and abandoned well projects with exceptional regional expertise and substantial resources. Atlas understands the scope and importance of this work, as well as the need to be available and responsive. To meet these demands, we have carefully assembled a team with the ideal mix of technical resources, capacity, and equipment. Our key personnel are highlighted in the team organization chart on the following page, followed by brief profiles showcasing their experience. Full resumes are provided in Appendix B, along with applicable certifications in Appendices C and D.

Perhaps the best indicator of our commitment to WVDEP is our team’s staff who live in the region and take pride in being part of projects that improve their communities. **The Atlas team has more than 380 staff and 43 offices within West Virginia and adjacent states to serve this contract.** Our deep local and regional presence enables our team to quickly respond with the right resources to any need that may arise.

### Measurement and Monitoring Support



Atlas is a national engineering and environmental consulting firm with more than 3,600 staff that operates out of over 100 offices across the country. As a leading firm in delivery of orphaned well plugging and abandonment projects, our team includes licensed professional engineers, licensed scientists, geotechnical engineers, certified inspectors, project managers, construction managers, and support personnel, providing the optimal mix of talent to meet WVDEP needs. Moreover, with our primary management office located in Morgantown and additional offices throughout the region, the Atlas team can mobilize quickly, ensuring prompt delivery of services.



The Well Done Foundation (WDF) has extensive experience conducting IRA MCW, IJJA-, DOI-, and DOE-compliant measurement and monitoring of 1,600+ wells across 14 states—leading the largest program of this kind in New Mexico. WDF is at the forefront of carbon credit project development for plugging and abandonment of oil and gas wells. They have performed more than 45 ACR- and Carbon Path-compliant measurement and monitoring projects across 16 states and can provide a carbon credit option for optimizing contract budgets, resulting in the ability to plug more wells.



**AURORA**

Aurora Research Associates (WOB) provides cultural and archaeological expertise.

For 25 years, Aurora has provided environmental review services in West Virginia and surrounding states. Aurora is EDGE & DBE certifications providing National Register architectural and archaeological survey services with direct experience surveying and researching thousands of sites in settings from rural landscapes to urban areas.



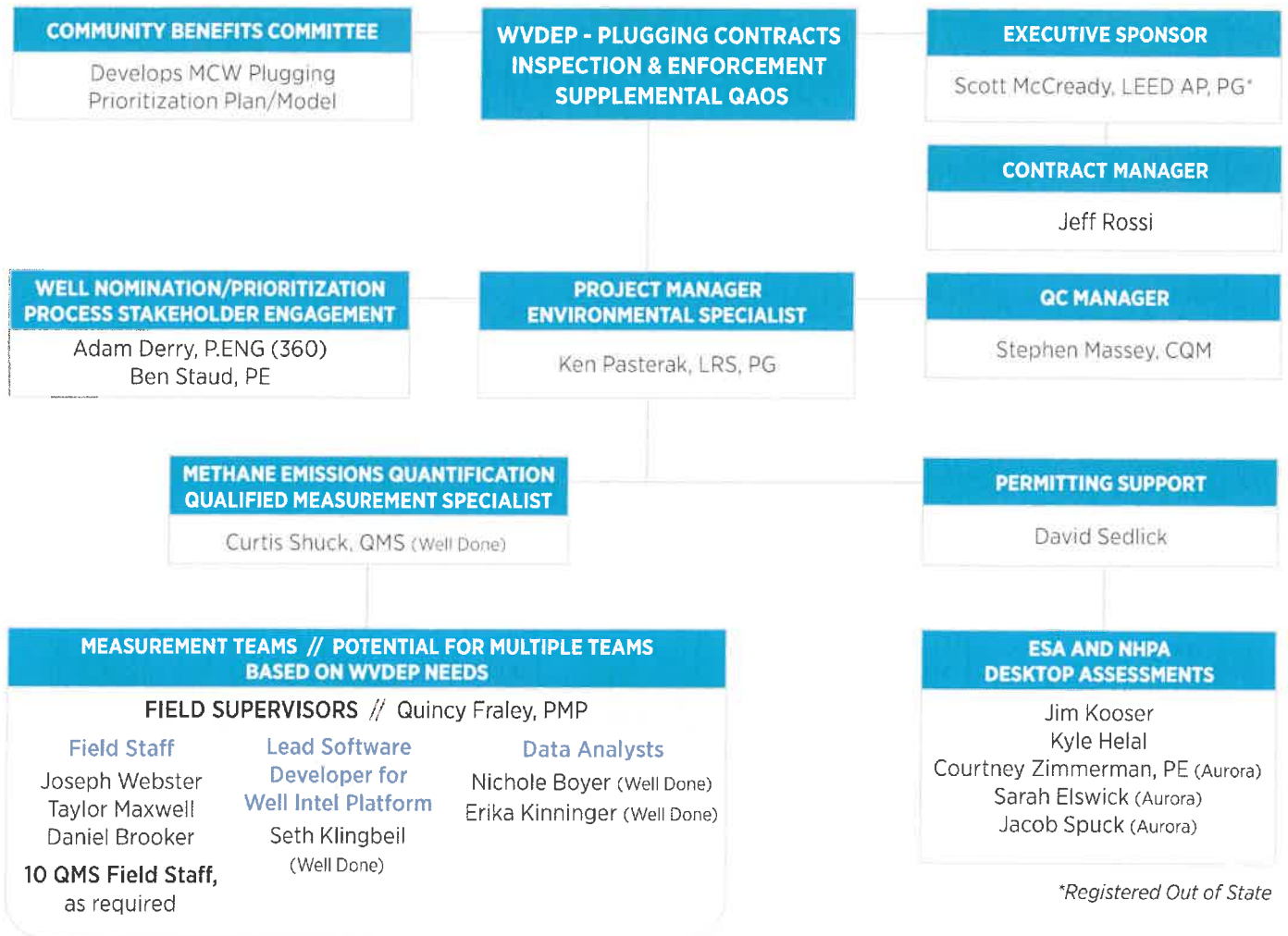
### Pace Analytical Services

- ▶ 3 West Virginia locations
- ▶ 12 additional locations regionally
- ▶ 83 locations and 3,500+ employees nationwide



### Critical Control Technologies

- ▶ 2 West Virginia locations
- ▶ 3 additional locations regionally
- ▶ 8 locations and 150+ employees nationwide



\*Registered Out of State

**ADDITIONAL RESOURCES**

Collectively, the Atlas/360/Well Done Team employs more than 5,800 professional staff in the U.S. and more than 300 professional staff in the West Virginia region who will be available as needed to support and address any potential specialty project needs.

**QUALIFIED MEASUREMENT SPECIALISTS**

Our team includes 11 technical professionals who meet the definition of “qualified measurement specialist” as defined in BIL guidelines. These individuals have earned QMS Certification through the Well Done Foundation’s pioneering training program, which meets and exceeds the standard set by the ACR’s and DOE’s Methane Measurement Guidelines dated April 2024 (see page 19 for further details on this training program).



## KEY PERSONNEL

We have structured our team to ensure that the program objectives are successfully fulfilled. Roles and responsibilities have been assigned to represent all program requirements from working with the Agency and CBC, contracting/financials, project management, stakeholder outreach and MCW nomination criteria, ESA and SHPO reviews, permitting, methane quantification, well prioritization, post plugging MEQ, and monthly reporting. This approach will ensure comprehensive oversight and successful project delivery.

### Ken Pasterak, LRS, PG

Project Manager:  
Environmental Services

- 30 years of experience and is a recognized site assessment and remediation leader and has successfully achieved regulatory closure for releases of hazardous substances and petroleum constituents to the environment at numerous properties in multiple states.
- Currently LRS for multiple WV restoration and remediation efforts. This role includes responsibility for quality assurance project plan preparation and implementation, communications, planning and scheduling, project deliverables, and ensuring projects are delivered on-time and within budget.
- Manages site assessment and remediation on an on-going basis for transporters with fuel spills and releases in WV and PA on behalf of multiple insurance carriers. He has managed Environmental Site Assessments (Phase I, II etc.) at numerous sites in WV and PA, directed source soil removals, and supported orphan well plugging and soil remediation recommendations to support redevelopment of PA property. Experienced with permitting oil and gas projects in West Virginia and Pennsylvania.



The Atlas/360/Well Done Team [including Ben Staud (left) and Scott McCready (2nd from right)] conduct a demonstration at an orphaned well site in Kentucky.

### Curtis Shuck, QMS

Methane Emissions Quantification  
Qualified Measurement Specialist

- Recognized as the nation's foremost expert in marginal and idle well methane measurement and monitoring and plugging and abandonment.
- Proven ability to develop and lead large, multi-county and multi-state marginal and idle well programs, with state-of-the-industry results.
- Pioneered the use of innovative, technology-based, safe, and cost-effective solutions in oil and gas emissions measurement and monitoring.
- Experience includes data collection for plug and abandonment reporting; equipment/computer troubleshooting; roustabout, well repair and flare operations.



Curtis Shuck, QMS measuring methane at a marginal well for Antero Resources in Doddridge County, WV.

**Seth Klingbeil**

Well Intel IoT Platform Manager

- 14 years providing data management and software development leadership.
- Veteran software development professional with a record of improving designs.
- Successfully evaluates current systems to uncover problems and implement effective solutions that meet customer and business requirements.
- Skilled in Agile Methods, Continuous Deployment Pipeline, Java, C#, .NET, ASP.NET, Web Services, Entity Framework and MS SQL.

**Stephen Massey, CQM**

Quality Control Manager

- 27 years of experience serving as a Director of Quality Assurance on major site remediation and restoration projects.
- Responsible for implementing the Atlas Quality Management System, including for Atlas' orphaned well contract in California.
- Provides QA support to programs and projects and assists with problem solving and root cause analysis.
- Advises, assists, and mentors Project Managers, Site Quality Managers, and technical staff to implement QA Surveillance Plans, Inspection and Test Plans, and conduct audits on projects.
- Provides quality management support on contracts managed by federal agencies, including USACE, NAVFAC, USAF, DOE, and EPA.

**Jeff Rossi**

Contract Manager

- 26 years in various operations, project management, and compliance roles.
- Manages the growth and operations of the West Virginia and Pennsylvania regional offices. Responsible for contract compliance, project controls, and close-outs.
- Provided program management on a public-private partnership with the Pennsylvania Department of Transportation to replace 558 structurally deficient bridges under one statewide contract.
- Proven ability to manage schedules and budgets to deliver projects on time and within budget.

**Scott McCready, LEED AP, PG**

Executive Sponsor

- 42 years of experience in the environmental assessment, remediation and regulatory compliance fields.
- Specializes in the pursuit of opportunities in assessment, plugging, and restoration of orphaned and marginal conventional wells under the IIJA and Inflation Reduction Act (IRA) assuring compliance with DOI and DOE requirements.
- Experience with oil and gas well site assessment, plugging, and restoration in Ohio.
- Resource Conservation and Recovery Act (RCRA) unit permitting, closure, and ongoing monitoring and corrective action program implementation.
- Clean Water Act (CWA) National Pollutant Discharge Elimination System (NPDES) permitting and Stormwater Pollution Prevention Plans (SWP3), industrial discharge requirements, Spill Prevention Control & Countermeasure (SPCC) plan.

**Adam Derry, P.ENG**

Well Specialist

- 12 years of energy industry experience to the team, including 3 years as a well site supervisor.
- His deep understanding of project planning, management, and execution is complemented by hands-on experience in various field operations, such as drilling, completion, and abandonment of oil and gas wells, as well as facility commissioning and decommissioning.
- Has developed a comprehensive skill set in well bore remediation and is a recognized expert in surface casing vent flow and gas migration source identification and repair techniques.
- Leads teams in large-scale well abandonment campaigns, consistently delivering projects below standard industry costs.



## PROVEN EXPERIENCE (4.3.1)

The Atlas/360/Well Done Team brings relevant national experience in orphaned well and MCW projects, along with established relationships with our teaming partners and regulatory agencies. **In the last 40+ years, we have successfully delivered more than 550 projects in West Virginia and surrounding states,** the vast majority of which were performed for local, state, or federal entities. This experience gives us a deep understanding of local conditions and practices, as well as established relationships with WVDEP and other regional regulatory agencies. The qualifications and project experience within this section exemplify our depth of knowledge and experience related to measurement and monitoring implementation.

### QUALIFIED MEASUREMENT SPECIALIST TRAINING AND CERTIFICATION

The Well Done Team has pioneered the first-of-its-kind QMS Certification Program, introducing a vital workforce development component to its mission. In collaboration with Ventbuster Instruments (VBI) and SEMTECH, the Well Done Foundation (WDF) offers comprehensive QMS training, testing, and certification, with an endorsement in VBI systems. Additional endorsements for other technology systems are also available.

The WDF curriculum includes a blend of computer-based training and facilitator-led classroom sessions, along with hands-on, closely supervised fieldwork at real orphaned oil and gas wells. The program totals 37 hours over 3 days, offering a fast-paced, immersive experience with early mornings, long days, and late nights.

Classes are held regionally in locations where WDF has access to resources, equipment, and orphaned wells for live training exercises. **This training meets and exceeds the standards set by the ACR's and DOE's Methane Measurement Guidelines dated April 2024.**



## Methane Quantification Expertise

The Atlas/360/Well Done Team is a national leader in methane measurement and monitoring both regionally and nationally, as demonstrated by the adjacent table and by the screenshots of Well Intel platform shown below.

PROJECT	DATE	DOI (IIJA)	ACR (CARBON CREDITS)	OPERATOR MCW
<b>WEST VIRGINIA</b>				
Little Kanawha	2023	1		
D1 Demonstration (Performed for WVDEP)	2023	1		
Antero Resources	2022			5
Diversified Energy Company	2023			1
<b>OHIO</b>				
Our Lady of Angels	2022		1	
Total DOI (IIJA) Projects	2023	113		
Total ACR Projects	2021-23		2	
Pine Top Resources	2022			25
<b>PENNSYLVANIA</b>				
Total DOI (IIJA) Projects	2023	337		
Total ACR Projects	2021-23		3	
Seneca Resources	2023			15
<b>KENTUCKY</b>				
Grayson 33259	2023	1		
Total DOI (IIJA) Projects		50		

<b>NATIONWIDE</b>				
<b>Total DOI (IIJA) Projects</b>		<b>1,600+</b>		
<b>Total Operator MCW Projects</b>				<b>500+</b>
<b>Total ACR Projects</b>			<b>65+</b>	

## DEMONSTRATION PROJECT

### West Virginia

This project was performed as a pilot project for the State of West Virginia Department of Environmental Protection as a marginal conventional well (MCW) demonstration to provide an understanding of best practices for MCW methane quantification in working with operators and regulators to determine current leak rates and the potential for emissions.

Reporting for this project was formatted in a “dashboard” style.

Specific project challenges:

- Wellhead configurations
- Active operations

#### PROJECT MANAGER

Curtis Shuck, QMS  
curtis@welldonefoundation.com

#### TYPE OF PROJECT

IIJA Demonstration

#### CLIENT REFERENCE

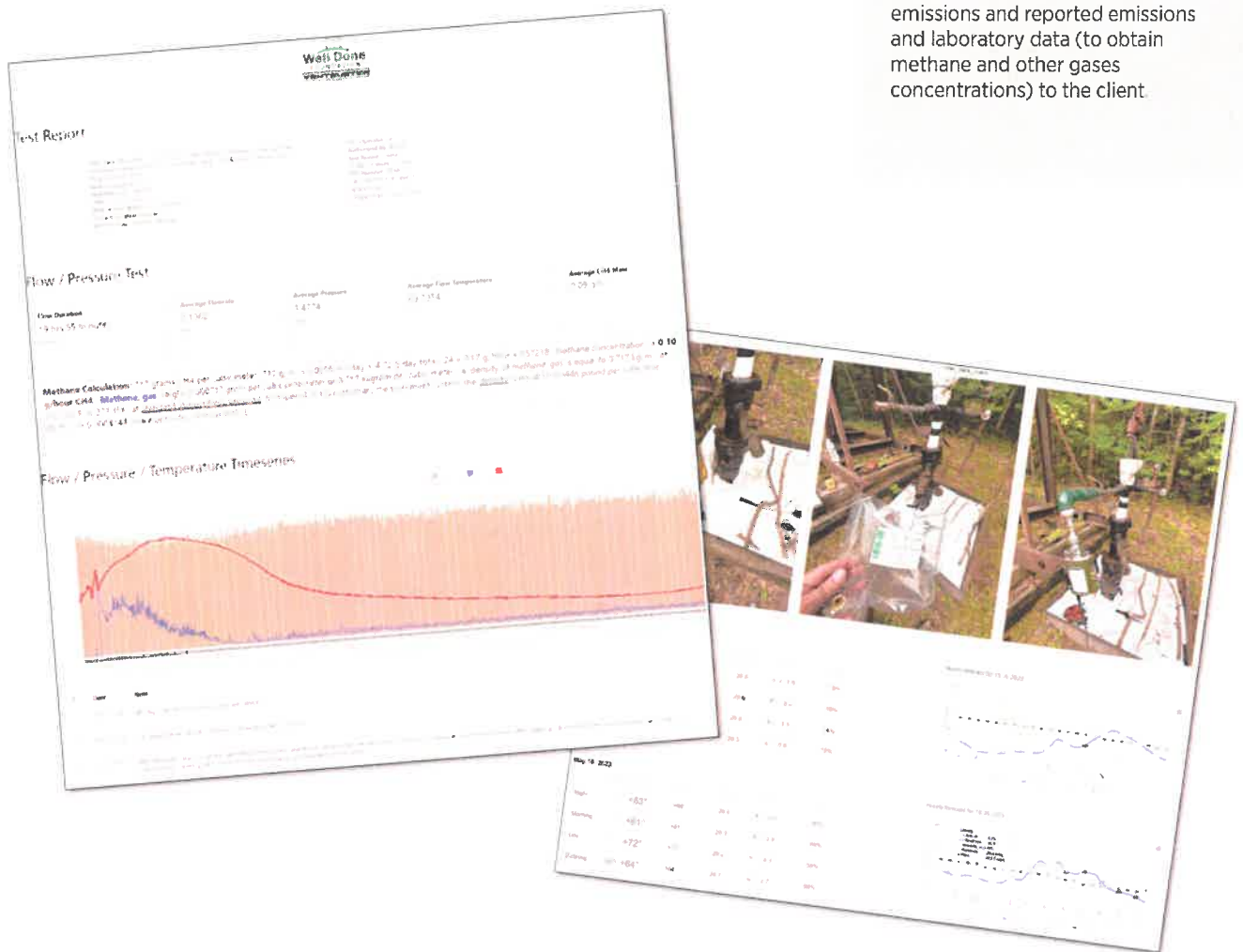
Jason Harmon  
WVDEP  
henry.j.harmon@wv.gov

#### GOAL

Accurately measure and quantify methane emission and other harmful gases emitted from the well focused on pre-plugging reporting accordingly

#### HOW MET

Quantified pre-plugging methane emissions and reported emissions and laboratory data (to obtain methane and other gases concentrations) to the client.



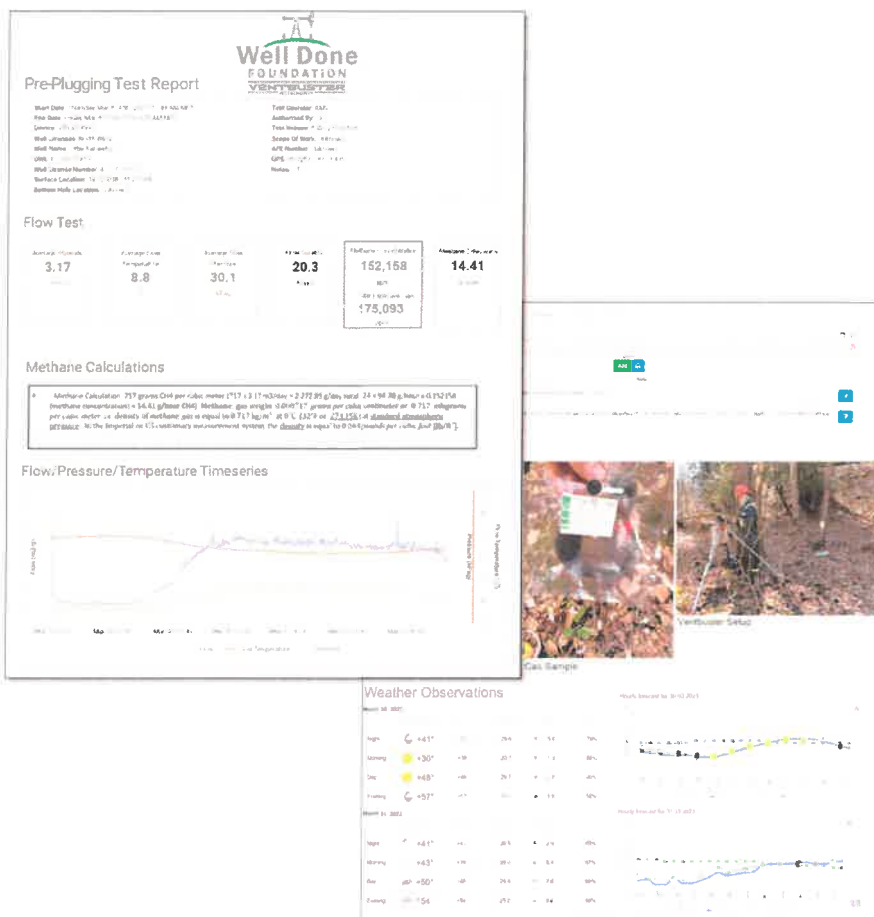
## LITTLE KANAWHA West Virginia

This project was executed under contract with the Northwind Group for the West Virginia Department of Environmental Protection. The project scope of work for Well Done included pre- and post-orphaned well methane quantification.

Reporting for this project was formatted in a “dashboard” style to provide WVDEP with quick access to the key data points required for the DOI/IJA/ BIL reporting.

Specific project challenges:

- Accessibility
- Wellhead configurations
- Cellular connectivity



### PROJECT MANAGER

Curtis Shuck, QMS  
curtis@welldonefoundation.com

### TYPE OF PROJECT

Methane Quantification

### CLIENT REFERENCE

Nicki McKenzie  
Northwind Group  
nichole.mckenzie@northwindgrp.com

### GOAL

DOI guidelines-based program. Accurately measure and quantify methane emission and other harmful gases emitted from the well both pre-plugging and post-plugging and report accordingly.

### HOW MET

Quantified pre-plugging and post-plugging methane emissions and reported emissions and laboratory data (to obtain methane and other gases concentrations) to the client.



## ORPHANED OIL AND GAS WELL PLUGGING AND ABANDONMENT

### Statewide California

Atlas was awarded two five-year contracts by the California Department of Conservation's Geologic Energy Management Division (CalGEM) to plug and abandon a multitude of orphaned oil and gas wells in its central and southern districts.

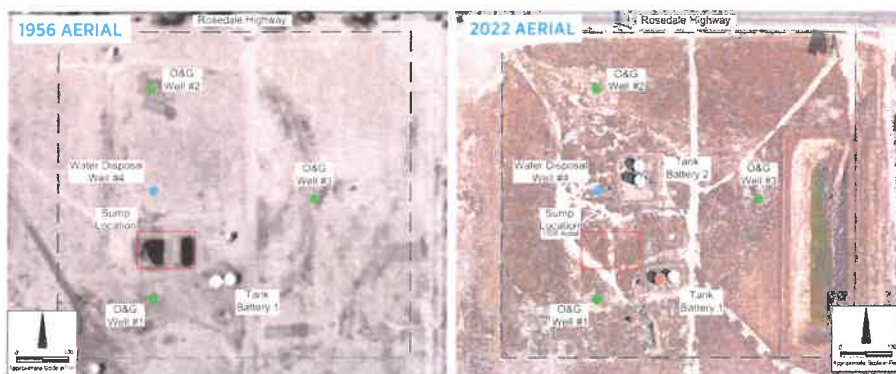
These contracts support state and federal efforts to eliminate methane and other harmful gas emissions from orphaned oil and gas wells, reducing environmental risks and improving community health and safety.

Atlas' scope of work is to provide comprehensive program management services to include:

- Thoroughly assess orphaned wells and well sites.
- Provide DOI-compliant pre- and post-plugging measurement and monitoring.
- Develop plans for safe well plugging.
- Decommission well site facilities, including dismantling and removal of obsolete infrastructure.
- Provide restoration services focused on environmental cleanup, remediation, and land restoration.

#### Key Challenges

- As development has expanded over the years, many once-remote wells are now located in urban areas requiring additional outreach to stakeholders, property owners, and other interested parties. These locations also require additional safety measures due to the proximity of people and structures.
- Physically locating buried wells using a hand-held GPS and metal detector as they were found to be cut flush with or below the ground.
- Atlas has incorporated the use of drone technology equipped with a magnetometer to locate well and well site features. Ground-based geophysical techniques are also used to fine tune the drone findings and precisely locate buried wells and well infrastructure.



Comparing historic and modern aerial images helps identify well locations.

#### PROJECT MANAGER

Alex Harting, PE  
Alex.Harting@oneatlas.com

#### TYPE OF PROJECT

DOI orphaned well program management

#### CLIENT REFERENCE

Cameron Campbell, PG  
CalGEM  
Cameron.Campbell@conservation.ca.gov

#### GOAL

DOI guidelines-based program. Accurately measure and quantify methane emission and other harmful gases emitted from the well which was focused on pre-plugging reporting accordingly.

#### HOW MET

Quantified pre-plugging methane emissions and reported emissions and laboratory data (to obtain methane and other gases concentrations) to the client.

## GRAYSON 33259 HACK West Virginia

This project was executed for the University of Kentucky (UK), under a 50+ Orphaned Well Measurement Contract across 16 counties. The scope of work for Well Done included pre-plug orphaned well methane quantification and UK staff training.

Reporting for this project was formatted in a “dashboard” style to allow the university to quickly update its database.

Specific project challenges:

- Accessibility
- Wellhead configurations
- Proximity to residences
- Need for emissions flaring due to gas volumes and proximity to residences
- Cellular connectivity
- 2-3 wells per County significantly impacted production rates

### PROJECT MANAGER

Curtis Shuck, QMS  
curtis@welldonefoundation.com

### TYPE OF PROJECT

IIJA Methane Quantification

### CLIENT REFERENCE

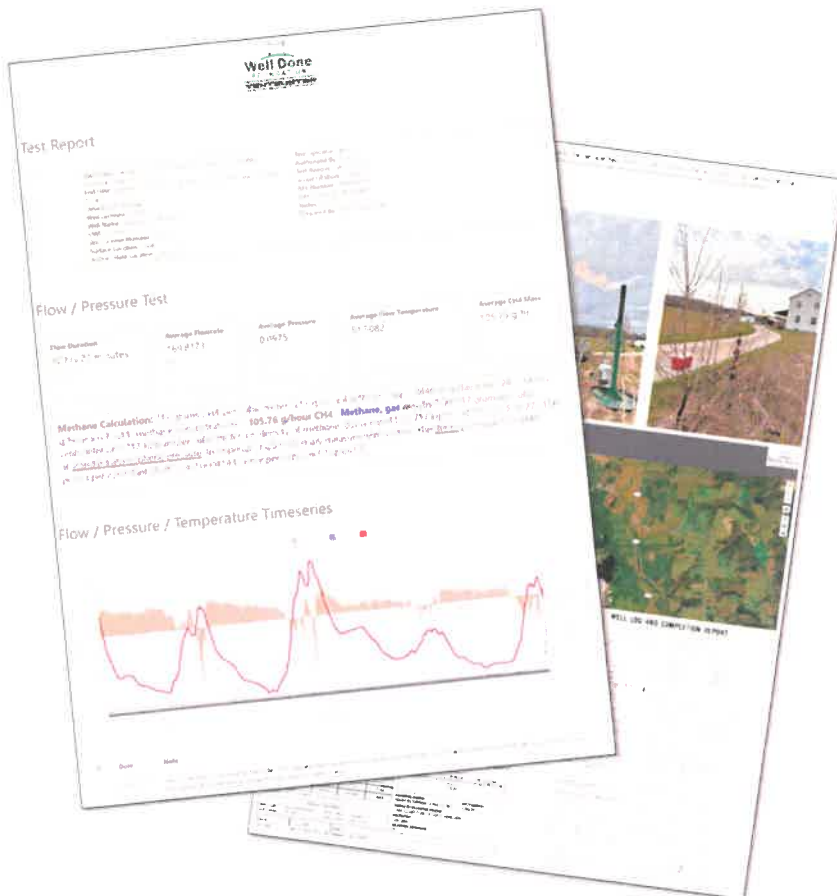
Thomas Parris  
University of Kentucky  
mparris@uky.edu

### GOAL

DOI guidelines-based program. Accurately measure and quantify methane emission and other harmful gases emitted from the well which was focused on pre-plugging reporting accordingly.

### HOW MET

Quantified pre-plugging methane emissions and reported emissions and laboratory data (to obtain methane and other gases concentrations) to the client.



*The work performed by the Well Done Foundation Team for the University of Kentucky, Kentucky Geological Society, and Kentucky Department of Oil & Gas was invaluable to helping us quantify orphaned well methane emissions and develop emissions modeling.*

- Thomas Parris  
University of Kentucky

## OUR LADY OF ANGELS Cuyahoga County, Ohio

Located above the Rocky River in Cleveland, this orphaned well was drilled in 1908 into what was likely the “Clinton Formation,” one of Ohio’s oldest natural gas bearing shale formations, to a depth of approximately 2,700 feet. The well was producing up until the 1950s when it was idled and filled with a clay material, a common industry practice during that era.

In 1979, Our Lady of Angels Apartments, doing business as Franciscan Village, was established as a non-profit collaboration to meet the anticipated demand for affordable independent senior housing. When the first residents began moving into the two-building, 135-unit Franciscan Village, a waiting list of approximately 2,000 people quickly formed. In 1992, Franciscan Village expanded by constructing a third building, adding 41 additional units for a total of 176. During a 2022 expansion project, an orphaned well was discovered in the courtyard, leaking methane. The Well Done Foundation stepped in to adopt and remediate the well.

The Ohio Department of Natural Resources issued the plugging permit on April 8, 2022, and Moore Well Services of Mogador, Ohio, began the remediation work. The team started by drilling out the old plugging material and removing the failed casing pipe. They then drilled a larger 8-inch-diameter hole to create a clean well bore and installed approximately 170 feet of new 8-inch steel casing, which was cemented on the backside between the casing pipe and the formation. Afterward, Moore cleaned out the well bore and, in collaboration with Petroset and Appalachian Well Surveys, cemented the cleaned well bore, set an 8-inch bridge plug, and filled the well with cement all the way to the surface, completing the work by April 28, 2022.

### American Carbon Registry Methodology

Two 2-hour continuous monitoring events prior to well plugging using steady-state chamber flow measurement, a gas concentration meter, and lab-verified air quality.



The Well Done Foundation adopted this well from the State of Ohio and plugged it on behalf of the property owner.

### PROJECT MANAGER

Curtis Shuck, QMS  
curtis@welldonefoundation.com

### TYPE OF PROJECT

ACR Project

### CLIENT REFERENCE

Donnald Heckelmoser  
Franciscan Village Senior Center  
heckelmoser@lscservice.com

### GOALS

ACR guidelines-based program. Accurately measure and quantify methane emission and other harmful gases emitted from the well both pre-plugging and post-plugging and report accordingly.

### HOW MET

Quantified pre-plugging and post-plugging methane emissions and reported emissions and laboratory data to the client. A more robust program of sampling and testing sets to meet the ACR requirements and corresponding laboratory analyses (to obtain methane and other gases concentrations) for each set.

### BENEFITS AND ACCOMPLISHMENTS

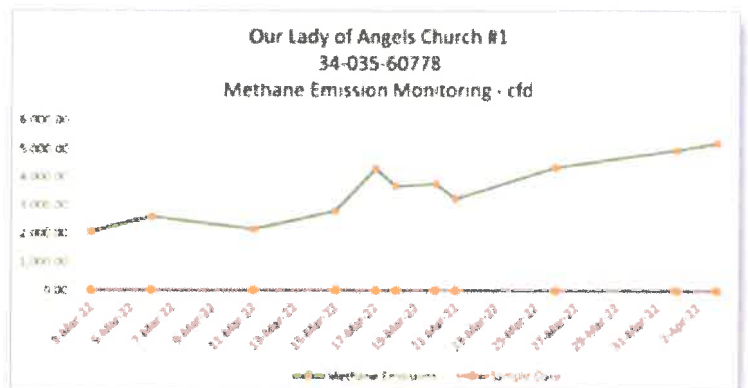
- 16,415 metric tons of CO<sub>2</sub>e methane emissions reduced
- 20 days from permit issuance to final well plugging – rapid resolution
- 5 United Nations Envision 2030 goals achieved
- Other achievements:
  - Improved air and water quality
  - Environmental restoration
  - Local jobs creation
  - Community outreach
  - Environmental justice

GOALS ACCOMPLISHED

GOAL	HOW ACCOMPLISHED
<b>Clean Water and Sanitation</b>	Met by improving water quality, reducing pollution, and minimizing release of hazardous chemicals and materials into groundwater. Plugging of the orphaned well supports improvements in air and water quality.
<b>Industry, Innovation, and Infrastructure</b>	Met via the use of flow metering processes that can be used to retrofit industries, making them sustainable, improving resource utilization, and expanding the adoption of clean and environmentally sound technologies. The technology can be used in developing countries and, with mobile capabilities, can be monitored globally using cloud technologies.
<b>Sustainable Cities and Communities</b>	Met by providing access to safe, inclusive, accessible public housing for women, older persons, and persons with disabilities by plugging an orphaned well that emitted methane where they resided.
<b>Responsible Consumption and Production</b>	Met through the project providing sound management of orphaned oil and gas well and methane emissions in accordance with agreed international frameworks, permanently reducing their release to air and water, minimizing their adverse impacts on human health and the environment through prevention and recycling.
<b>Climate Action</b>	Met via the innovative measurement technologies used in the project that were invented to anticipate and meet climate goals, continuing to be refined and its use expanded across many locations.



Continuous monitoring prior to completion.



## BEAR RUN TRAILER PARK #001

Erie, PA



Bear Run Trailer Park #001, an undocumented orphaned natural gas well, was featured on the Smithsonian Channel's "How Did They Fix That" (Season 2, Episode 5) as the Well Done Foundation (Well Done California LLC) was performing critical methane measurement and monitoring in November 2022.

*The Well Done Foundation adopted this well from the State of Pennsylvania and plugged it on behalf of the property owner.*

This marginal and idle well was discovered by the landowner as he was preparing to sell the property. Working closely with the

Pennsylvania Department of Environmental Protection (PADEP), Well Done adopted and successfully plugged this well in February 2023 and restored the impacted surface area in the Spring of 2023.

### PROJECT MANAGER

Curtis Shuck, QMS  
curtis@welldonefoundation.com

### TYPE OF PROJECT

ACR Project

### CLIENT REFERENCE

Ronald Susmarski  
Legal Counsel  
suslaw@roadrunner.com

### GOAL

Quantify pre-plugging and post-plugging methane emissions and report emissions and laboratory data to the client. A more robust program of sampling and testing sets to meet the ACR requirements and corresponding laboratory analyses for each set.

### HOW MET

Quantified pre-plugging and post-plugging methane emissions and reported emissions and laboratory data to the client. A more robust program of sampling and testing sets to meet the ACR requirements and corresponding laboratory analyses (to obtain methane and other gases concentrations) for each set.

## ADDITIONAL PROJECT EXAMPLES

*Examples of national orphaned well projects and additional West Virginia projects further demonstrating our team's capabilities are included on the following pages.*

## SITE REHABILITATION, DORMANT SITE RECLAMATION, AND ACCELERATED SITE CLOSURE PROGRAMS | Alberta, British Columbia, and Saskatchewan, Canada

This project encompassed a wide range of activities across more than 2,600 sites, including well abandonment, Phase I and Phase II ESAs, remediation of contaminated work sites, and reclamation of work sites. Throughout these programs, 360 demonstrated industry-leading expertise, particularly in their systematic and automated accounting practices. This expertise enabled them to secure funding by providing transparent, auditable financial reporting and ensuring accountability to shareholders. Their financial diligence and operational efficiency were key factors in the success and sustainability of these extensive environmental projects.



► 360 has executed thousands of well plugging projects

SUPPLEMENTAL QA OFFICERS **40+**

### PROJECT MANAGER

Adam Derry  
aderry@360eec.com

### TYPE OF PROJECT

Program administration of well plugging and site restoration projects

### CLIENT REFERENCE

Ryan Munro  
Canadian Natural Resources Limited  
Ryan.n.munro@cnrl.com

### GOAL

To manage all aspects of federally funded well plugging and site restoration projects on over 2,600 sites

### HOW MET

- Assisted oil and gas operators in selecting sites that fit federal funding criteria
- Provided cost estimates for scope of work required
- Generated provincial and federal contracts for scope of work required
- Engaged with third-party contractors to execute all aspects of work
- Submitted regulatory documentation specific to each scope of work (if required)
- Provided engineering and project management support for project work
- Provided on-site QA Officers to manage daily reporting, HSE requirements, and execution of work
- Generated final reports encompassing federal funding criteria and submitted to provincial government for payment
- Paid all third-party contractor invoices

## ORPHANED WELL PLUGGING PROGRAM Northern Montana

360 collaborated with a service rig partner in Northern Montana to successfully plug and abandon ten orphan wells as part of a project aimed at generating carbon credits. This initiative—conducted for the Montana Board of Oil & Gas Conservation, land owners, and Tribal authorities—is expected to produce over 200,000 carbon offsets through the American Carbon Registry (ACR) Orphan Well Methodology. The revenue generated from these carbon credits will finance the plugging and abandonment work, effectively doubling the project's financial impact with a nearly 1:1 multiplying effect. This innovative approach not only addresses environmental concerns but also provides a sustainable funding model for future well remediation efforts.



• Plugging wells on behalf of the Well Done Foundation

### SUPPLEMENTAL QA OFFICERS

1

#### PROJECT MANAGER

Adam Derry  
aderry@360eec.com

#### TYPE OF PROJECT

Well plugging

#### CLIENT REFERENCE

Curtis Shuck  
Well Done Foundation  
curtis@welldonefoundation.com

#### GOAL

To plug and abandon 10 wells on behalf of Well Done Foundation

#### HOW MET

- Engaged with third-party contractors to execute all aspects of work
- Submitted regulatory documentation specific to each site
- Provided engineering and project management support for project work
- Provided an on-site QA Officer to manage daily reporting, HSE requirements and execution of work
- Generated final reports and submitted to Well Done Foundation for payment
- Paid all third-party contractor invoices

## Additional Orphaned Well Project Examples

### MARGINAL AND IDLED WELL SITE ABANDONMENT, REMEDIATION, AND RESTORATION

#### Statewide Arizona

Atlas was awarded a task order contract under an MSA with the Arizona Department of Environmental Quality (ADEQ) for the Arizona Marginal and Idled Well Site Abandonment, Remediation, and Restoration Project. ADEQ plans to plug and abandon legitimately marginal and idled oil and gas, geothermal, and/or helium wells in coordination and in compliance with IJJA requirements, followed by possible reclamation of the associated facilities. The project consists of four tasks including assessment, site characterization, well plugging and abandonment, and site restoration. The site characterization task included screening, measurement, and monitoring.

A key challenge of this project is physically locating each well in unpopulated and undeveloped areas. To address this issue, Atlas uses 4-wheel drive vehicles equipped with GPS units, a satellite phone, and emergency equipment to locate wells. In areas with limited vehicle access, the field team has often hiked more than a mile through rugged terrain using a hand-held GPS unit to track to the well location on foot.

In some cases, wells were located using a metal detector as they were cut flush with or below the ground. Atlas has recently incorporated the use of drone technology equipped with a magnetometer to locate well and well site features. Ground-based geophysical techniques are also used to fine tune the drone findings and precisely locate buried wells and well infrastructure.



### MARGINAL AND IDLE WELL PLUGGING PROGRAM

#### Statewide Montana

Well Done performed plugging and abandonment of ten marginal and idle wells for carbon credit generation in Northern Montana. This project will generate more than 200,000 carbon offsets through the ACR marginal and idle well methodology that will ultimately finance the work and act as a multiplying effect of nearly 1:1.



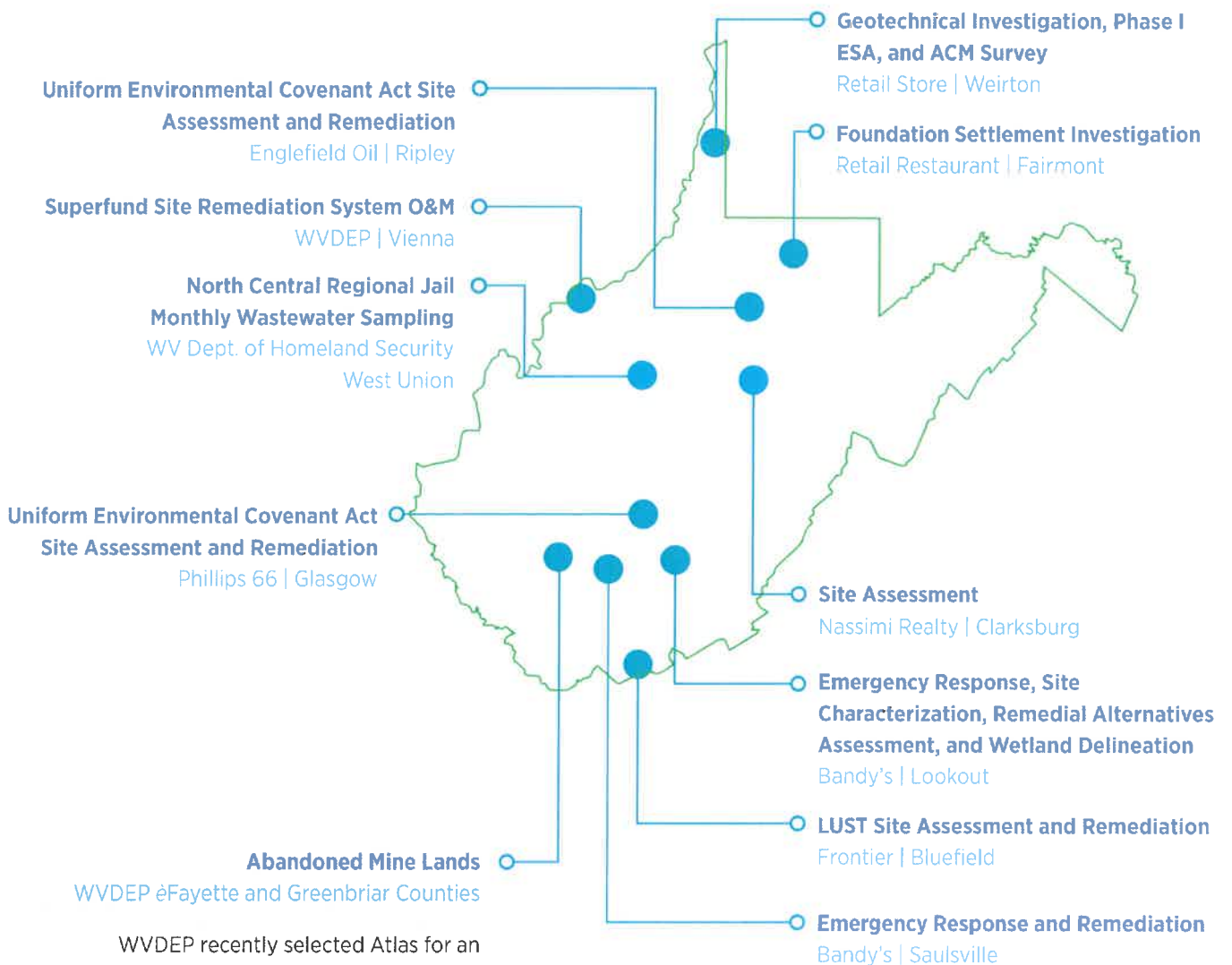
*We have been working with the Well Done Team since 2019. To date, Well Done has plugged 12 orphan wells on my land and they have done an amazing job of safely and responsibly executing the work and restoring the surface areas once completed. I happy to be able to partner with the Well Done Foundation.*

- Sam Stewart



## Additional West Virginia Projects

For over 40 years, Atlas and its legacy companies have been deeply rooted in West Virginia, contributing to the state's growth and development. Our team members are genuinely committed to the success of every project, and know that their work directly benefits the communities they call home. The following projects provide a representative sampling of our work throughout the state.



WVDEP recently selected Atlas for an AML reclamation and remediation management contract on 14 sites throughout southern West Virginia. **This award was the largest of eight competitive AML contracts issued by the WVDEP in 2023.**

# APPENDIX



## A. REQUIRED FORMS





Department of Administration  
 Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Centralized Request for Proposals  
 Service - Prof

<b>Proc Folder:</b> 1542680			<b>Reason for Modification:</b> Addendum #1 issued to publish agency responses to vendor submitted questions and extend the bid open..... See Page 2 for complete info
<b>Doc Description:</b> DEP OOG - MERP Administration			
<b>Proc Type:</b> Central Master Agreement			
<b>Date Issued</b>	<b>Solicitation Closes</b>	<b>Solicitation No</b>	<b>Version</b>
2025-12-09	2025-01-07 13:30	CRFP 0313 DEP2500000004	2

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

**Vendor Customer Code:** 000000189555  
**Vendor Name :** Atlas Technical Consultants LLC ( formerly ATC Group Services LLC )  
**Address :** 125 Granville Square  
**Street :**  
**City :** Morgantown  
**State :** West Virginia **Country :** United States **Zip :** 26501  
**Principal Contact :** Jeff Rossi, Contract Manager  
**Vendor Contact Phone:** 304-533-0367 **Extension:**

**FOR INFORMATION CONTACT THE BUYER**  
 Joseph E Hager III  
 (304) 558-2306  
 joseph.e.hageriii@wv.gov

**Vendor Signature X**  **FEIN#** 46-0399408 **DATE** 01/07/2025

All offers subject to all terms and conditions contained in this solicitation



**Reason for Modification:**

Addendum #1 issued to publish agency responses to vendor submitted questions and extend the bid opening until 1/7/2025 @ 1:30 PM ET.

**ADDITIONAL INFORMATION**

The West Virginia Department of Administration, Purchasing Division is issuing this solicitation as a request for proposal ("RFP"), as authorized by W. Va. Code 5A-3-10b, for the West Virginia Department of Environmental Protection to provide administrative services for the Agency's Methane Emission Reduction Program (MERP) grant for the plugging of certain Marginal Conventional Wells (MCWs) per the attached specifications and terms and conditions.

\*\*\*Online responses have been prohibited for this solicitation, if you have questions contact the Buyer - Josh Hager - Joseph.E.HagerIII@wv.gov

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION REAP OFFICE 601 57TH ST SE CHARLESTON WV 25304 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER  No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit of Measure	Unit Price	Total Price
1	Well Nomination, Prioritization	1000.00000	HOUR		

Comm Code	Manufacturer	Specification	Model #
71141102			

**Extended Description:**

Requirements listed in Sections 4.2.1.1 and 4.2.1.3 of the RFP.

Paid hourly.

INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION REAP OFFICE 601 57TH ST SE CHARLESTON WV 25304 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER  No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit of Measure	Unit Price	Total Price
2	Methane Emissions Quantification (MEQ) Testing	800.00000	EA		

Comm Code	Manufacturer	Specification	Model #
77121506			

**Extended Description:**

Requirements listed in section 4.2.1.2 of the RFP.

Paid per-well.



INVOICE TO	SHIP TO
ENVIRONMENTAL PROTECTION REAP OFFICE 601 57TH ST SE CHARLESTON WV 25304 US	STATE OF WEST VIRGINIA VARIOUS LOCATIONS AS INDICATED BY ORDER  No City WV 99999 US

Line	Comm Ln Desc	Qty	Unit of Measure	Unit Price	Total Price
3	Permitting	400.00000	EA		

Comm Code	Manufacturer	Specification	Model #
71141102			

**Extended Description:**  
Requirements listed in section 4.2.1.4 of the RFP.  
  
Paid per-well.

SCHEDULE OF EVENTS		
Line	Event	Event Date

	Document Phase	Document Description	Page
DEP2500000004	Final	DEP OOG - MERP Administration	4

**ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

(Printed Name and Title) Jeff Rossi, Contract Manager

(Address) 125 Granville Square, Morgantown, West Virginia 26501

(Phone Number) / (Fax Number) 304-533-0367

(email address) jeff.rossi@oneatlas.com

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through *wvOASIS*, I certify that: I have reviewed this Solicitation/Contract in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation/Contract for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that this bid or offer was made without prior understanding, agreement, or connection with any entity submitting a bid or offer for the same material, supplies, equipment or services; that this bid or offer is in all respects fair and without collusion or fraud; that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; that I am authorized by the Vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on Vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

*By signing below, I further certify that I understand this Contract is subject to the provisions of West Virginia Code § 5A-3-62, which automatically voids certain contract clauses that violate State law; and that pursuant to W. Va. Code 5A-3-63, the entity entering into this contract is prohibited from engaging in a boycott against Israel.*

Atlas Technical Consultants LLC (formerly ATC Group Services LLC)

(Company)

(Signature of Authorized Representative)

Jeff Rossi, Contract Manager 01/07/2025

(Printed Name and Title of Authorized Representative) (Date)

304-533-0367

(Phone Number) (Fax Number)

jeff.rossi@oneatlas.com

(Email Address)

Revised 10/17/2024

# REQUEST FOR PROPOSAL

## (Agency Name and RFP #)

Proposal 1: Step 1 –  $\$1,000,000 / \$1,000,000 =$  Cost Score Percentage of 1 (100%)  
Step 2 –  $1 \times 30 =$  Total Cost Score of 30

Proposal 2: Step 1 –  $\$1,000,000 / \$1,100,000 =$  Cost Score Percentage of 0.909091 (90.9091%)  
Step 2 –  $0.909091 \times 30 =$  Total Cost Score of 27.27273

**6.8. Availability of Information:** Proposal submissions become public and are available for review immediately after opening pursuant to West Virginia Code §5A-3-11(h). All other information associated with the RFP, including but not limited to, technical scores and reasons for disqualification, will not be available until after the contract has been awarded pursuant to West Virginia Code of State Rules §148-1-6.3.d.

By signing below, I certify that I have reviewed this Request for Proposal in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that, to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

Atlas Technical Consultant LLC ( formerly ATC Group Services LLC )

(Company)

Jeff Rossi, Contract Manager

(Representative Name, Title)

304-553-0367

(Contact Phone/Fax Number)

01/07/2025

(Date)

Revised 07/01/2021

**ATLAS**

**Well Done**  
FOUNDATION

**360**

WVDEP OOG: MERP ADMINISTRATION | CRFP 0313 DEP250000004

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: CRFP DEP25\*04**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.


**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Addendum No. 1 | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input type="checkbox"/> Addendum No. 4            | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

Atlas Technical Consultants LLC (formerly ATC Group Services LLC)

Company
Jeff Rossi, Contract Manager 
Authorized Signature
01/07/2025
Date

NOTE: This addendum acknowledgement should be submitted with the bid to expedite document processing.  
Revised 6/8/2012

# APPENDIX



## B. RESUMES



# SCOTT McCREADY, LEED AP, PG

## EXECUTIVE SPONSOR

---

### EDUCATION

BA, Geology, Indiana University,  
1982

### REGISTRATIONS

Professional Geologist  
IN #741, 1987

LEED AP, 2009

### CERTIFICATIONS

OSHA Certified Hazardous Waste  
Supervisor, 1992

OSHA 40-Hour HAZWOPER  
Training, 1987

### EXPERIENCE & RESPONSIBILITIES

Scott McCready is a Principal Consultant and Program Director in Atlas' National Programs Group. He is responsible for national business development, client management, technical direction, and project team assembly for numerous government, industrial, and commercial accounts. Mr. McCready has 42 years of experience in designing, negotiating, and implementing environmental projects and programs in multiple areas. His areas of expertise span numerous regulatory programs and include:

- ] National Strategic Growth Initiative leader in the pursuit of opportunities in assessment, plugging, and restoration of orphaned and marginal conventional wells (MCW) under the Infrastructure, Investment & Jobs Act (IIJA), Inflation Reduction Act (IRA), assuring compliance with Department of Interior (DOI) and Department of Energy (DOE) requirements.
- ] Resource Conservation and Recovery Act (RCRA) unit permitting, closure, and ongoing monitoring.
- ] RCRA corrective action program implementation.
- ] Clean Water Act (CWA) National Pollutant Discharge Elimination System (NPDES) permitting and Storm Water Pollution Prevention Plans (SWP3), industrial discharge requirements, Spill Prevention Control & Countermeasure (SPCC) plans.
- ] Comprehensive Emergency Response, Compensation & Liability Act (CERCLA) investigation and program requirements such as Emergency Planning & Community Right to Know Act (EPCRA).
- ] Phase I and Phase II Environmental Site Assessments (ESA), soil remediation, solid/hazardous waste management, brownfield program management, and material/product recycling programs.
- ] Hazardous materials (e.g., asbestos, lead paint, mold, universal wastes) assessments, abatement, remediation, and clearance.
- ] Indoor air quality and vapor intrusion assessment and remediation.
- ] Development and implementation of facility/site environmental auditing programs and general environmental liability identification and assessment.
- ] Evaluating and resolving domestic water well issues.
- ] Clean Air Act (CAA) potential to emit assessment and permitting.

Mr. McCready has experience in the areas of Occupational Safety & Health Administration (OSHA) Hazard Communications (HazCom) programs, OSHA personal exposure monitoring, personal protective equipment (PPE) selection, hazardous energy control (lock out/tag out), and confined space program requirements.

## PROJECT EXPERIENCE

### Oil & Gas Well Site Assessment, Plugging and Restoration

- ] National Program Director leading multiple pursuits of orphan and idle oil and gas well opportunities nationwide.
- ] National Program Director for initial pursuit and subsequent award for a five-year contract by the California Department of Conservation's Geologic Energy Management Division (CalGEM) to plug and abandon a multitude of orphaned oil and gas wells in its central district. This contract supports state and federal efforts to eliminate methane and other harmful gas emissions from orphaned oil and gas wells, reducing environmental risks and improving community health and safety. Atlas' scope of work is to provide comprehensive program management services to thoroughly assess orphaned wells and well sites, develop plans for safe well plugging and decommissioning of well site facilities, dismantle and remove obsolete infrastructure, and deliver restoration services focused on environmental cleanup, remediation, and land restoration.
- ] Supported expansion of initial award of a task order contract under an MSA with the Arizona Department of Environmental Quality (ADEQ) for the Arizona Marginal and Idled Well Site Abandonment, Remediation, and Restoration Project. The expanded scope of the task order was for 400 additional wells along with addition of subcontractors to perform well plug design and firms to provide well plugging and abandonment. ADEQ plans to plug and abandon legitimately marginal and idled oil and gas, geothermal, and/or helium wells in coordination and in compliance with IJA requirements, followed by possible reclamation of the associated facilities. The project consists of four tasks including assessment, site characterization,

well plugging and abandonment, and site restoration. The site characterization task included screening, measurement, and monitoring.

### Indoor Air Quality, Multiple Clients and Locations

Client management of multiple client portfolios, project managers, and field staff in the completion of site assessments of indoor air hazards such as volatile organic compounds, mold, asbestos, lead-based paint, and other substances to evaluate risks and develop solutions. Services provided range from initial assessment through turn-key remediation recommendations and implementation to meet applicable program and regulatory requirements.

### Due Diligence and Site Development; Multiple Clients and Locations

Management of multiple client site development needs involving due diligence (Phase I and II ESAs), hazardous materials surveys, geotechnical exploration, wetlands delineation and permitting, and stormwater detention requirements. Services provided on a variety of sites range from initial assessment through turn-key remediation recommendation and implementation to meet applicable program and regulatory requirements.

### Facility/Property Management; Multiple Clients and Locations

Management of multiple client facility management needs from manufacturing to office and retail involving compliance with air emissions permit requirements, stormwater discharge permits, RCRA Corrective Action and unit closures, brownfield compliance requirements, and built structures settlement investigations. Services provided range from permit development, negotiated and tailored compliance management solutions, and ongoing compliance monitoring.



# JEFF ROSSI

## CONTRACT MANAGER

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### EDUCATION

Master of Public Administration,  
University of Pittsburgh

BS, Business Administration,  
Robert Morris University

### EXPERIENCE & RESPONSIBILITIES

Jeff Rossi has 26 years of experience serving in various operations and project management roles, with 10 years in the A/E/C industry. He has been responsible for branch management, contract management, business development, client management, and public engagement. His skills include quality assurance/quality control, client management, regulatory compliance, and risk management.

### PROJECT EXPERIENCE

#### Operations Manager; Pennsylvania, West Virginia

Responsible for the overall growth, performance, and operations of Atlas' West Virginia and Pennsylvania branch offices. Specific responsibilities include client management, successful project delivery, business development, and contract management, including negotiation, compliance, change orders, invoicing, and close-out.

#### Program Manager; Pennsylvania

Program manager for an \$899 million public-private partnership (P3) design-build contract to replace 558 structurally deficient bridges throughout Pennsylvania. Led PennDOT district progress meetings, NEPA/permitting compliance, public outreach, project communications, community engagement team, and customer service group.

#### Regulatory and Compliance Manager; Pennsylvania

Director of regulatory affairs in 32 states. Oversaw corporate compliance for institutional licensing and regulatory requirements. Primary point of contact with state legislative and executive branches and regulatory agencies. Secured more than \$60 million annually from state and federal programs and held a variety roles with state and national industry associations.

# KEN PASTERAK, LRS, PG

## ENVIRONMENTAL SPECIALIST

### EDUCATION

MBA, University of Pittsburgh,  
Katz Graduate School of Business  
MS, Environmental /Earth  
Studies, Adelphi University  
BS, Geology, West Virginia  
University

### REGISTRATIONS

Licensed Remediation Specialist  
WV 243  
Professional Geologist  
PA 3733

### PROFESSIONAL AFFILIATIONS

National Groundwater Association  
PA Environmental Professionals  
Geological Society of America  
PA Council of Professional  
Geologists  
American Institute of Professional  
Geologists  
Pittsburgh Geological Society  
Air & Waste Management  
Association

### EXPERIENCE & RESPONSIBILITIES

Ken Pasterak has over 30 years of industry experience in environmental due diligence and assessment/remediation services. He specializes in overcoming environmental obstacles to real estate development, auditing environmental management systems, and performing pre-purchase environmental management capital/O&M budget forecasting to support industrial/commercial property acquisitions. Mr. Pasterak has extensive experience developing and implementing site assessment and remediation plans for petroleum hydrocarbon and hazardous substance releases. He regularly performs Phase I and II environmental due diligence and compliance audits and prepares Site Characterization Report (SCRs), Remedial Action Plans (RAP), Remedial Action Progress Reports (RAPR), Remedial Action Completion Reports (RACR), Risk Assessments, Remedial Investigation Report (RIRs), Final Report (FRs), and compliance audits and due diligence reports for his clients. Mr. Pasterak designs, installs, and operates remediation systems using dual/multi-phase extraction, soil vapor extraction, air/ozone sparge, LNAPL recovery, and carbon trap and treat injection/enhanced bioremediation technologies.

Additionally, Mr. Pasterak develops and implements soil and groundwater management plans for site development and develops and installs vapor intrusion (VI) mitigation systems for existing and new construction. He performs human health risk assessment and VI/solute transport modeling and has successfully deployed various VI to indoor air mitigation and/or methane mitigation technologies. Mr. Pasterak has presented regulatory agency VI to indoor air assessment training. He has a working knowledge of SPCC, Pennsylvania Clean Fill Policy, RCRA hazardous waste regulations, and SPCC and NPDES storm water management requirements. Mr. Pasterak has provided forensic analysis for Potentially Responsible Party (PRP) dispute resolution, expert testimony, and other litigation support and has performed human health risk assessment and fate and transport analysis.

### PROJECT EXPERIENCE

#### **Environmental Due Diligence; Various Sites, WV, PA, OH, NY, CT, KS, WI, GA, CO & CA**

Performed Phase I and II ESAs for transactional due diligence purposes at more than 100 sites.

#### **Site Assessment and Groundwater MNA Monitoring at a WV UECA Site, Confidential Retail Petroleum Client, Ripley, WV**

LRS responsible for site assessment, supplemental site assessment, HHRA support, and enhanced MNA remedial approach for a release of gasoline to groundwater and soil at a retail petroleum distribution facility. Performed VI to indoor air assessment. Utilized oxygen releasing groundwater remedy for enhanced MNA to address recalcitrant hydrocarbons in groundwater.

# KEN PASTERAK, LRS, PG

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## **Multiple Fuel Spills, Lookout, Saulsville, Pax, and other Sites, Confidential Insurance Carrier, WV Site Assessment and Groundwater MNA Monitoring at a WV UECA Site, Confidential Retail Petroleum Client, Ripley, WV**

Project Manager responsible for site assessment, sampling, emergency response, and remediation at multiple fuel tanker spill sites.

## **Dry Cleaner ESA, Confidential Commercial Property Owner Clarksburg, WV**

PG responsible for site characterization for an innocent purchaser of a dry cleaner site. Currently evaluating VI to indoor air pathway. Planning is underway to prepare to enter the site into the WV VRRP.

## **Mixed Use Redevelopment of Former Manufacturing Facilities, including Fast-Track Remediation and Vapor Intrusion Mitigation; Pittsburgh, PA**

Prepared and implemented assessment and remediation plans in response to the discovery of potential significant environmental liabilities, including polycyclic aromatic hydrocarbons and lead in soil and halogenated volatile organic compounds (VOC) in groundwater, during pre-purchase due diligence activities. To reduce costs, multiple properties (including parcels separated by a public right-of-way) targeted for mixed-use redevelopment were aggregated into one Act 2 site to reduce costs and fast-track site cleanup. The Special Industrial Area provision of Pennsylvania Act 2 was used to avoid investigation and delineation of an off-site VOC groundwater plume, significantly reducing costs. Following clean-up, the Pennsylvania DEP issued a Pennsylvania Act 2 release of liability for the site. Soil and Groundwater Management Plans were prepared and implemented during site demolition and construction activities to cost-effectively manage impacted media. Designed and coordinated the installation of multiple VI mitigation systems consisting of sub-slab depressurization and vapor barrier technologies in buildings undergoing redevelopment, as part of activity and use limitations.

## **LNAPL Remediation and Pennsylvania Act 2 Clean-up and Liability Relief; PA**

Prepared and implemented an LNAPL clean-up plan, performed human health risk assessment, solute transport and VI to indoor air modeling, and prepared a Remedial

Investigation and Final Report to obtain PADEP relief of liability pursuant to Pennsylvania Act 2 for a heating oil release site where heating oil was effectively recovered to PADEP requirements.

## **Dual Phase Extraction and/or Soil Vapor Extraction Remediation of Petroleum-Impacted Soil at Industrial Facilities; Various Sites, PA**

Operated soil vapor extraction (SVE) and/or dual phase extraction (DPE) remediation systems and achieved remedial objectives for petroleum-impacted soil at multiple sites. A buyer-seller agreement, multi-party/PADEP negotiation, and remediation concurrent with site development were coordinated to satisfy stakeholder interests.

## **Mining Facility Assessment, Remediation, Litigation Support, and Trial Expert Witness Support; KS**

Investigated the extent of constituents of concern in groundwater, evaluated the performance of groundwater remediation systems, and performed fate and transport analysis for groundwater. Provided defendant technical litigation support, including expert testimony.

## **Retail Petroleum Distribution Facility Assessment and Remediation; Various Sites, PA**

Prepared and implemented Site Characterization Plans, Remedial Action Plans, Remedial Action Progress Reports, and Remedial Action Completion Reports for multiple sites. Obtained Pennsylvania Storage Tank Program relief of liability by demonstrating attainment to multiple standards. Performed human health risk assessment, fate and transport analysis, and VI to indoor air evaluation. Active remediation was performed using dual phase extraction, in situ chemical oxidation, enhanced in situ bioremediation, source removal, vapor extraction groundwater extraction (VEGE), and/or multi-phase extraction.

## **Close-Out of Multiple Sites with Subsurface LNAPL; PA**

Prepared and implemented LNAPL recovery plans, implemented active LNAPL remediation, and effectively demonstrated LNAPL recovery to the maximum extent practicable (MEP) using decline curve analysis methods and other lines of evidence to expedite closure of sites with residual, non-migrating LNAPL in the subsurface. The close-outs included human health risk assessment and pathway elimination strategies. PADEP approved the attainment and LNAPL MEP demonstrations.

# BEN STAUD, PE

## PROJECT MANAGER

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### EDUCATION

MS, Civil Engineering, West Virginia University, 2000  
BS, Civil and Environmental Engineering, West Virginia University, 1997

### REGISTRATIONS

Professional Engineer:  
WV #020372  
PA #PE071430  
MA #50126  
NY (inactive)

### CERTIFICATIONS

OSHA 1910.120 40-Hour Safety Training  
OSHA 1910.120 8-Hour Refresher Training

### EXPERIENCE & RESPONSIBILITIES

Ben Staud has 19 years of project management and design experience involving investigating, designing, permitting, and managing a diverse array of environmental, geotechnical, and civil projects.

### PROJECT EXPERIENCE

#### Natural Gas Well Site Civil Design and Permitting Management; West Virginia and Pennsylvania

Managed the design and permitting of Marcellus natural gas well sites. Responsibilities included bidding and managing contract engineering services, identifying and tracking permits required for location construction, performing extensive technical reviews of draft drawings and permit applications, inspecting completed projects to evaluate design and/or as-built performance, and identifying and incorporating lessons learned from past and present construction projects. Management of these projects required rigorous coordination with all divisions within the company to ensure proposed locations facilitated the development process while simultaneously minimizing construction costs, addressing slope instability concerns, and avoiding unnecessary permitting delays.

#### Remediation of Former Manufactured Gas Plant (MGP); Massachusetts

Project Manager and Engineer of Record for an impacted sediment removal and stream restoration project that required installation of a structural soil mix barrier wall and complete gravity diversion of a medium-sized stream to facilitate removal and replacement of approximately 25,000 tons of sediment. Responsibilities included development of conceptual design solutions; evaluation of remedial design investigation results; acquiring permits from local, state, and federal regulators (Section 404/401 permits); preparation of remedial design documents; assistance with contractor selection; attaining E&S permits; supervision of field oversight activities; and submittal of completion documentation.

#### Impacted Sediment and Soil Removal Project at Former MGP Site; New York

Project Manager and Engineer of Record for an impacted sediment/soil removal and stream restoration project adjacent to a commercial facility located in an urban area. Responsibilities included acquisition of a Section 404/401 permit, preparation of remedial design documents, assistance with contractor selection, attaining E&S permits, supervision of field oversight activities, and submittal of completion documentation. This project included sheet pile walls for groundwater control and excavation support, pumped stream bypass, disposal of 12,000 tons of impacted sediments, on-site water pre-treatment, and construction of a vegetated segmental retaining wall.

#### Construction Inspection and Drilling Oversight; Virginia, West Virginia, and Maryland

Prepared Phase I Environmental Site Assessments for various private and public clients in multiple states.

## **Construction Inspection and Drilling Oversight; Virginia, West Virginia and Maryland**

Conducted field inspection of various municipal and industrial construction projects. Oversaw field drilling operations to support geotechnical and environmental site investigations.

## **Aluminium Dross Landfill Capping; Alabama**

Project Engineer for a capping and leachate treatment project for a 40-acre industrial landfill. Responsibilities included procurement and oversight of geotechnical and environmental drilling programs, historical records review, slope stability analyses, grading plans, cap system design, and construction oversight.

## **Remedial Design at Former MGP Site; New York**

Project Manager and Engineer of Record for an impacted soil removal project at a former manufactured gas plant located in an urban area under complete containment. Project responsibilities included evaluation of remedial design investigation results, attainment of regulatory approval, preparation of remedial design documents, and securing an E&S control permit.

# STEPHEN MASSEY, CQM

## QC MANAGER

### EDUCATION

BS, Geology, San Diego State University, 1985

### TRAINING AND CERTIFICATIONS

Construction Quality Management (CQM) Certificate, USACE, 1999, 2004, 2011, and 2016;

Certified Quality Engineer (CQE), American Society for Quality (ASQ), 1989

Certified Quality Auditor (CQA), ASQ, 1989

### EXPERIENCE & RESPONSIBILITIES

Stephen Massey has provided quality management support on contracts managed by numerous government agencies, including USACE, NAVFAC, Air Force, DOE, and EPA. Most projects involved engineering, construction, and environmental remediation as the prime contractor QA Manager, implementing quality assurance to verify subcontractors followed procedures and performed QC inspections. He advises, assists, and mentors Project Managers, Site Quality Managers, Non-Destructive Testing (NDT), and technical staff who are responsible for implementing QA Surveillance Plans and Inspection and Test Plans and conducts project audits. Mr. Massey's experience includes assisting project teams with root cause analysis (RCA) support for performance deficiencies and assisting with Nonconformance Reports (NCR), Corrective Action Requests (CAR), and audits. Sample RCA assignments are featured in the Project Experience section below.

Mr. Massey authored *Best Practices for Environmental Project Teams*, marketed globally by Elsevier, Amsterdam, The Netherlands, in 2011 (ISBN: 978-0-444-53721-8). The 2nd edition was published in March, 2022. He has presented quality management topics at national conferences and workshops, including the American Society for Quality (ASQ). In March, 2018, Stephen presented "Effectively Implementing Root Cause Analysis on Projects Involving Advanced Geophysics" at the Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP) National Conference.

### EMPLOYMENT HISTORY

#### Atlas Technical Consultants

QA Director/Program Quality Manager. Responsible for implementing the Atlas Quality Management System (QMS), including the NDT QMS, companywide, providing QA support to programs and projects, and assisting with problem solving. (2020 - present)

#### PTIM Federal Services

Program QA/QC Manager. Helped project teams develop and implement flexible quality management systems tailored to site-specific technical and regulatory requirements. He independently verified environmental documents, results, and data met Performance Work Statement (PWS) performance standards and complied with government QA Surveillance Plan (QASP) requirements. (2017 - 2020)

**CB&I Federal Services\***. (2014 - 2017)

**Shaw Group\***. (2003 - 2014).

**IT Corporation\***. (1998 - 2003).

**OHM Remediation Services\***. (1995 - 1998).

#### General Atomics

Project Quality Engineer. Responsible for developing and implementing project quality plans on nuclear decontamination and decommissioning projects in accordance with the client contract, ASME NQA-1 and U.S. Nuclear Regulatory Commission (NRC)

\* Employer change due to acquisition.

requirements. Projects included the nuclear fuel fabrication facility and radiological hot cell laboratory. (1987 - 1995).

#### **Chem-tronics**

Receiving Inspector. Responsible for inspecting and prescribing damage shop repair actions and quality control procedures for commercial aircraft fan blades. (1985 - 1987).

#### **PROJECT EXPERIENCE**

##### **California Department of Conservation's Geologic Energy Management Division (CalGEM) Project**

Developed and implemented the Quality Assurance and Quality Control (QA/QC) Plan which describes the process that Atlas and its subcontractors implement to verify Oil and Gas well Plugging and Abandonment (P&A) work is planned, performed and documented in accordance with the contract. The QA/QC Plan applies to each awarded site-specific task order and CalGEM-approved Notice of Intention to Abandon (NOI) for each of the Orphan Wells scheduled for abandonment. The Atlas quality process and objectives apply to the P&A lifecycle, from pre-mobilization through final QA audit. CalGEM has identified thousands of oil and gas wells statewide that are orphaned, hazardous, or potentially hazardous. Proper plugging and abandonment of wells is necessary to mitigate or eliminate the danger they currently pose to life, health, and natural resources.

##### **Clean, Inspect, and Repair of Fuel Storage Tank; Pt. Mugu, CA**

Provided QA root cause analysis followed by QA corrective action support for tank shell shrinkage following weld repairs by subcontractor. Causes included lack of pre-weld bracing plan (deviation from spec), failure to control heat during welding on thin .223" shell, compounded by the high heat E7018 electrode (instead of E6010), and improper weld technique (continual vs. step-back method). Additionally, the Certified Welding Inspector (CWI) was not onsite to conduct surveillance and enforce hold points for shell bracing, confirm proper weld rod, monitor weld technique, and perform timely dimensional tank shell inspections per API-650.

##### **Clean, Inspect, and Repair Fuel Storage Tank 14; JRM Anderson, Guam**

Provided QA root cause analysis with forensic investigation consultant following tank roof collapse during abrasive

blasting operations by a subcontractor. Root causes that triggered structural roof failure included excess spike in vacuum pressure caused by a combination of sealing the tank shell vents (subcontractor workaround to accelerate drop in relative humidity target), malfunctioning tank dehumidifier unit (with no replacement), activation of a dust collector prior to blasting that created rapid spike in vacuum and blocking a tank manway opening. This combination triggered a structural failure in the vicinity of weld repairs to three structural roof beams, which fell to the floor and missed the subcontractors. Authored root cause analysis report for the U.S. Navy.

##### **Bridge Repair Damage Root Cause Analysis; U.S.EPA, Navajo Nation, NM**

As Corporate QA Manager, led emergency response root cause analysis with engineering team at request of EPA following a 100-year thunderstorm and flash flood. Bridge repair was under construction by an EPA subcontractor at the time of the damage and EPA was concerned the design was defective due to the extent of damage. Identified and documented the root causes for severe erosion and bridge damage, which identified inadequate implementation of sediment and erosion controls during bridge repair construction, and identified opportunities for design improvement (stiffeners) for structural enhancement.

##### **Aqueous Film Forming Foam (AFFF) Replacement and Disposal at North Atlantic Division; Air Force/USACE**

Program QA Manager responsible for implementing field surveillance and oversight of fire protection system subcontractor. QA field surveillance covered safely removing, containerizing, and disposing C8-AFFF; source inspection of replacement tank bladders; receiving inspection of replacement tanks and bladders per specifications; managing submittals for new hardware and installed products; leak testing repaired fire suppression systems; and documenting the completed work including test results. During project execution, assisted installation teams and fire protection team subcontractor with corrective action support for nonconforming tank bladders that were not manufactured per the dimensional specifications.



## **Adam Derry, P.Eng.**

*Director of Engineering and Manager of  
Abandonment & Decommissioning*

### **INTRODUCTION**

Adam Derry brings an extensive and diverse background in the energy industry, spanning various sectors including field operations, office management, exploration and production, and consulting. With over a decade of hands-on experience in oilfield operations, he has developed a comprehensive understanding of project planning, management, and execution.

Beginning his career as a drilling rig floor hand, Adam has acquired a broad skillset through his involvement in drilling, completions, workovers, and abandonments. His expertise extends to overseeing complex oilfield operations both in the field and from a managerial standpoint. Notably, he has successfully managed multiple large-scale abandonment campaigns, consistently achieving abandonment costs significantly below industry standards. Adam's proficiency in vent flow repair and gas migration source identification is a testament to his meticulous attention to detail and practical application of repair techniques. His role as a wellsite supervisor also provided him with invaluable insights into project execution and team leadership.

In addition to his hands-on experience, Mr. Derry holds a Bachelor of Science degree in Mechanical Engineering from the University of Calgary and is a licensed Professional Engineer with APEGA. His commitment to professional development is evident in his active involvement in industry groups and committees, including serving as Co-Chair of IRP-30 – Temporary Wellbore Suspensions for the Drilling and Completions Committee of Energy Safety Canada. As Director of Engineering and Manager of Abandonment & Decommissioning at 360 Engineering & Environmental, Adam continues to demonstrate his strategic planning, project management, and leadership skills, driving successful outcomes for the organization.

### **EDUCATION & QUALIFICATIONS**

- Professional Engineer (APEGA)
- University of Calgary, B.Sc. – Mechanical Engineering

### **PROFESSIONAL EXPERIENCE**

- 360 Engineering & Environmental Consulting Ltd., Director of Engineering, 2022-present
- 360 Engineering & Environmental Consulting Ltd., Team Lead, Abandonment & Decommissioning, 2018 – 2021
- The Barlon Engineering Group, Drilling & Completions Engineer, 2017 -2018
- International Resource Management Ltd., Wellsite Supervisor, Drilling & Completions, 2013 -2017



## **Adam Derry, P.Eng.**

*Director of Engineering and Manager of  
Abandonment & Decommissioning*

### **PROJECT EXPERIENCE**

#### **360 Engineering & Environmental Consulting, Director of Engineering**

Progressed from position of Team Lead to current role within 2 years of joining 360. Currently managing a team consisting of 10-15 office staff, office contractors and contract wellsite supervisors. During the time period of 2019 - 2024, Adam oversaw 3,600+ well abandonments, 300+ pipelines abandonments, and 60+ facility decommissioning projects with operations performed from across North America. Adam oversees all abandonment operations including routine and non-routine abandonments, wellbore integrity repairs, surface casing vent flow repairs, and gas migration repairs. He manages stakeholder communications between clients, regulatory bodies, third party vendors and leaseholders, and he has assisted in the organic development and implementation of 360's Emissions Monitoring business unit. Adam is Co-Chair of the 360 Joint Health and Safety Committee and is actively involved in leadership of 360 outside of the Abandonment and Decommissioning business unit.

#### **Barlon Engineering, Drilling & Completions Engineer**

During his time at Barlon Engineering, Adam coordinated and directed drilling, completions, workovers, and abandonments. He managed and executed horizontal Viking completion and workover program for light oil producer in Eastern Alberta and completed critical sour drilling and completions program for mid-stream disposal scheme. Adam managed workover operations for multiple clients and managed several development drilling operations. He was responsible for 600+ well abandonments including projects through the Alberta Orphan Well Association and industry from Fort Nelson, British Columbia to Brooks, Alberta.

#### **International Resource Management, Engineering Consultant/Wellsite Supervisor**

As an Engineering Consultant and Wellsite Supervisor at International Resource Management Adam managed all activities related to abandonments, drilling, completions and workovers on vertical, directional and horizontal wells. He was responsible for Alberta Orphan Well Association cost estimates, AFE preparation, programs, field execution and final reports, as well as offset analysis, EPZ calculation, licensing, programming, and contractor selection. Adam was an on-site representative for field operations during drilling, completions, workovers and abandonment across Alberta and Saskatchewan.

### **INDUSTRY COURSES AND AFFILIATIONS**

- Well Service BOP
- Second Line Supervisors Well Control
- Safety Management and Regulatory Awareness
- Detection and Control of Flammable Substances
- St. John's First Aid
- Transportation of Dangerous Goods and WHMIS
- H2S Alive
- Well Integrity and Abandonment Society member
- APEGA member
- Co-Chair of DACC IRP-30: Temporary Wellbore Suspension



## Curtis E. Shuck Jr. - Curriculum Vitae updated 08.04.2024

**3090 Mistral Way  
Bozeman, Montana 59718**

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<http://www.linkedin.com/pub/curtis-shuck/9/548/8b1/>**

**Phone: (406) 460-0903**

### **Qualifications:**

Uniquely qualified to provide effective leadership in the orphan and marginal conventional well methane measurement and monitoring and plugging and abandonment space. Proven ability to develop and lead large, Multi-County and Multi-State orphan well programs, with state of the industry results.

Proven delivery of innovative, technology based, safe and cost effective solutions in the oil & gas emissions measurement and monitoring space. Curtis' work is nationally recognized by the U.S. Department of Interior, U.S. Department of Energy and State Regulatory Agencies and being best in industry.

### **Work History:**

#### **July 2019 - Present: Chairman, Well Done Foundation, Inc. - Bozeman, MT**

Inspired by an overwhelming need to take action to address the orphan and marginal conventional well problem in the United States and Canada, the Well Done Foundation was formed as a 501 (c) (3) in November of 2019. Since that time, the Well Done Foundation has performed orphan and marginal conventional well methane measurements on more than 1,600 wells across 15 states and has facilitated the plugging and abandonment of more than 40 orphan wells in 5 states.

The Well Done Foundation was the original sponsor of the American Carbon Registry (ACR) Orphan Well Plugging Methodology for the development of Carbon Credits as a means of helping to finance the scaling up of this important work.

#### **Specific Duties Include:**

- ◆ **Overseeing Orphan and Marginal Conventional Well Measurement & Monitoring Teams**
- ◆ **Orphan and Marginal Conventional Well Methane Quantification Data Analysis**
- ◆ **Well Intel© Orphan and Marginal Conventional Well Program Management IoT**
- ◆ **Orphan and Marginal Conventional Well Adoption, Plugging & Abandonment Programs**

### **Work History:**

#### **July 2017 - Present: President, Universal Exports Limited, LLC - Bozeman, MT**

The opportunity to develop and guide my own firm presented itself in July of 2017 and the concept of Universal Exports was born! Universal Exports Limited LLC of Bozeman, MT is passionate about using our extensive experience and relationships in the domestic and international trade, transportation and business development sectors to create real value for our customers by delivering unique and innovative solutions that generate the right opportunities at the right times.

Facilitation of meaningful domestic and international trade, transportation and business development relationships that bring real value, in real time. Delivering integrated collaborations with our customers that are specially designed to be consistent with their own business cultures, philosophies and requirements for a seamless and integrated effort that produces clear results of value that our customers are be proud to own!

#### **Specific Duties Include:**

- ◆ **Business to Business Collaborations**
- ◆ **Outsourced Sales and Marketing Consulting**
- ◆ **Strategic Planning and Policy Consulting**

# Curtis E. Shuck Jr. - Curriculum Vitae



## Work History:

### **August 2017 - 2021: Executive Director, Great Northern Corridor Coalition - Williston, North Dakota**

Appointed by the General Membership in August 2017 as the first Executive Director of the Great Northern Corridor Coalition, a Public/Private Partnership formed in 2011 between the BNSF Railway Company, the Port of Vancouver USA and the Port of Northern Montana. The GNCC has gone on to increase its membership to include eight (8) state Departments of Transportation, ten (10) Public Ports, Departments of Commerce, Departments of Agriculture, Cities, Towns, Trade Offices, Economic Development Authorities, Port Associations and various Private Sector interests.

Responsible for managing the day to day implementation of the GNCC's annual Business Plan, coordinating with the Executive Board, the Steering Committee and General Members.

### **May 2016 - July 2017: President, Red River Oilfield Services, Inc. Williston, North Dakota**

As President of Red River Oilfield Services, Inc. primary responsibilities are to oversee the day to day affairs of the company's \$32.6M annual business with 50 employees and \$40.0M in assets working directly with the Board of Directors, Corporate Legal Counsel and Executive Staff.

#### **Specific Duties Included:**

Develop Annual Operating Budgets, Corporate Key Initiatives and Departmental Goals and Objectives. Lead and support Staff in the execution of the Departmental Goals and Objectives. Oversee business development and sales efforts in the Energy, Industrial Products and Renewable Energy Sectors, focused on diversifying the book of business for long term sustainability.

Has the primary responsibility for dealing with the BNSF and Union Pacific Railroads, industry partners and for creating synergies for business development opportunities and collaborative execution strategies and initiatives.

Lead the organization forward, coordinating with shareholders, customers, community leaders and employees to optimize returns and overall business effectiveness.

### **2015 - 2016: Vice President of Business Development, Red River Oilfield Services, Inc.**

A member of Red River's Executive Team, directly responsible for the oversight of the Marketing and Business Development strategy to generate a diverse portfolio and grow market share during the strong economic headwinds created by the global collapse of the oil and gas industry.

#### **Specific Duties Included:**

Develop executable sales strategies that support existing customers and provide growth opportunities in emerging markets.

Optimize business units with growth potential and shutter operations struggling to maintain profitability. Minimize staff reduction through cross training, retraining and repurposing initiatives.

Manage a culture of change and creative thinking in a 37 Year Old local family owned business through creating a shared vision, transformation execution strategy, staff and resource coaching.

# Curtis E. Shuck Jr. - Curriculum Vitae



## 2014 - 2015: Senior Sales Director, Port of Vancouver USA

As a member of the Port of Vancouver USA's newly created Global Sales Team, Curtis' primary role was to identify, develop and pursue business opportunities related to the Advantaged Supply Chain Initiative that optimize the port's infrastructure and operational capabilities.

### Specific Duties Included:

Lead business development and sales efforts in the Energy, Industrial Products and Agricultural sectors by working with existing port customers to help them realize their full potential and developing *NEW* partners through creating *NEW* business opportunities in traditional as well as non-traditional spaces. Spearhead the port's Midcontinent Strategy by overseeing the Williston, North Dakota Field Office.

## 2005 - 2014: Director of Economic Development and Facilities, Port of Vancouver USA

Member of the Port of Vancouver USA's Executive Management Team, leading the third largest public port in the state of Washington to continued success in marine cargo movements, economic and business development activities, rail infrastructure improvements and property development.

### Specific Duties Included:

Directing a high performance team that manages all aspects of the port's rail program, industrial properties and real estate, economic and business development activities and capital project delivery. In all, over 50 track miles of rail infrastructure, 800 acres of marine and industrial property with 2 million square feet of warehouse, manufacturing and office space occupied by more than 50 diverse tenants. The Facilities and Rail Departments of the port generate in excess of \$10.9 million dollars in gross revenues annually. Capital projects include the port's \$275.0 million dollar West Vancouver Freight Access Project, a partnership with the BNSF Railway Company.

## References:

Jim Griswold	New Mexico Energy, Minerals & Natural Resources - Orphan Well Program
Thomas Parris	University of Kentucky, Kentucky Geological Society—Orphan Well Program
Randy Pacheco	Chief Executive Officer, A-Plus P & A, LLC
Susan Nash,	American Association of Petroleum Geologists

## Education:

1979 to 1981	Charismatic Bible College - Anchorage, Alaska Theology
1982	University of San Diego School of Law - San Diego, California Graduate Paralegal Program
1982	Republican National Committee - Washington, District of Columbia Internship, College Field Program
1986 to 1990	Bates Technical College - Tacoma, Washington Carpenters Apprenticeship Program, United Brotherhood of Carpenters Journeyman Carpenter/Pile Driver

# DAVID SEDLICK

## PERMITTING

### EDUCATION

Bachelor of Science, Natural Resources Development, Watershed Resources Policy and Planning, The Ohio State University, Columbus, Ohio, 1994

### CERTIFICATIONS

Ohio EPA Certified Asbestos Hazard Evaluation Specialist, ES33206

### SPECIALIZED TRAINING

US Department of Housing and Urban Development (HUD) Multifamily Accelerated Processing

Ohio Department of Transportation (ODOT) Office of Environmental Services (OES) Waterway Permits

Ohio Department of Transportation (ODOT) Office of Environmental Services (OES) Ecological Surveys

Ohio EPA Headwater Habitat Evaluation Index (HHEI) and Qualitative Habitat Evaluation Index (QHEI)

Ohio EPA Wetland Biocriteria Training-Vegetation and Amphibian Index of Biotic Integrity (VIBI/AmphIBI)

Ohio EPA Ohio Rapid Assessment Method for Wetlands (ORAM)

### EXPERIENCE & RESPONSIBILITIES

David oversees branch operations, including contract management, quality control, financial reporting, personnel management and administrative management. David is an Environmental Professional (EP) with more than 25 years of experience in environmental assessment, ecological surveys, business development and management. David manages several national clients for Atlas and serves as a national point of contact for multifamily housing projects, National Environmental Policy Act projects, wetlands and ecological services.

### PROJECT EXPERIENCE

#### Private Developer, Multifamily Portfolio in Alabama, Florida, Georgia, Indiana, North Carolina, Louisiana, New York, Tennessee

Atlas was selected by a private developer to perform 38 environmental studies of multi-family apartment complexes including NEPA Environmental Reviews and Phase I Environmental Site Assessments (ESAs) in accordance with HUD and state financing environmental review and auditing requirements. The Environmental Reviews were performed in accordance with NEPA, HUD 24 CFR Part 50, ASTM E1527-13, and EPAs All Appropriate Inquires (AAI) standards. Atlas worked closely and coordinated with the housing development firm, local property managers, local and state agencies to perform the services.

#### Public Housing Consultant for Public Housing Authorities: Boston, MA; Dearborn, MI; Detroit MI; Kansas City, KS; Kansas City, MO; Nashua, NH; New Bedford, MA; & Pontiac, MI

Atlas was selected as Technical Assistance (TA) provider for eight Public Housing Authorities (PHAs) that were audited by the Office of Inspector General (OIG). The auditing services were provided for numerous HUD NEPA Environmental Reviews associated with properties that failed to comply with the requirements of Federal grant funding. The audits include a detail review of the project, qualifications of the reporting and findings, review of documenting compliance with applicable local, state, and federal agencies.

#### Private Developer, Subdivision-Single-family Homes - Brunswick, Ohio

Atlas was retained to provide environmental services for a proposed 80+ acre single-family residential development site. Atlas completed a wetlands and stream delineation / determination, identified potential endangered species habitats, performed a Section 106 National Historic Preservation Act historical and cultural review, and successfully completed U.S. Army Corps of Engineers (USACOE) and Ohio EPA permitting of wetland and stream habitats to be impacted to allow for the construction of a 100+ lot residential subdivision. As part of mitigation for the loss of these waters, Atlas designed and constructed an onsite 7.0+ acre permittee-responsible wetland and stream mitigation site, including 1,500 linear feet of stream habitat buffer enhancements, that was used as mitigation for this multi-phase project. This site was monitored for 10 years using several habitat quality assessment indices to meet the criteria of the permits.

### NEPA Environmental Assessment

Managed and completed NEPA Environmental Assessments for multiple Federal government agencies including HUD, Department of Veterans Affairs (VA), Health Resources and Services Administration (HRSA), Department of the Army, and Department of Agriculture (USDA).

# QUINCY FRALEY

## FIELD SUPERVISOR

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### EDUCATION

BS, Environmental Science,  
Alderson Broaddus University,  
2017

### CERTIFICATIONS

APNGA Portable Nuclear Gauge  
Safety

OSHA 30-Hour Construction  
Safety and Health

### EXPERIENCE & RESPONSIBILITIES

Quincy Fraley has five years of hands-on, practical experience in construction management and construction inspection. Mr. Fraley's current areas of focus are project management, client relations, field report analysis, and marketing.

### PROJECT EXPERIENCE

#### Project Manager; West Virginia

Coordinated and managed construction projects across various industries, ensuring timely and professional completion. Assigned and supervised personnel for optimal project execution. Monitored material allocations and expenditures to maintain costs below budgeted amounts. Scheduled and coordinated projects with diverse clients, ensuring deadlines were met. Collaborated with clients to uphold quality assurance, ensuring projects met or exceeded client expectations.

#### Construction Management; Ohio, Pennsylvania, West Virginia

Coordinated and managed site operations of construction for natural gas well pads, roadways, reclamation sites, and pipeline construction projects. Inspections of these operations were completed by comparing the prepared plan sheet to the completed construction activities. Collaborated with clients to uphold quality assurance, ensuring projects met or exceeded client expectations.

#### Water Quality Inspection; West Virginia, Ohio, Pennsylvania

Completed collection of water quality samples based on parameters set by the client. The results were compiled into spreadsheets/reports for the clients' comparison to allotted amounts of material being tested for application to permitting process.

#### Environmental Inspections; West Virginia, Ohio, Pennsylvania

Completed inspection of environmental issues across various industries and compiled reports-of-finding for submittal to the client. Conducted follow-up inspections and oversaw calibration of all monitoring equipment.

#### Report Writing

Assisted in writing virtual inspection reports for construction sites. Completed daily reports from active sites for client submittal. Reconciled materials used on the site daily to cross reference for the client.

# JOSEPH WEBSTER

## MEASUREMENT FIELD TECHNICIAN

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### EDUCATION

BS, Geology, Cleveland State University, 2002

AS, Physical Science, Cuyahoga Community College, 2000

### CERTIFICATIONS

OSHA 1910.120 40-Hour Initial HAZWOPER Training

OSHA 1910.120 HAZWOPER 8-Hour Refresher Training (current)

OSHA 1910.120 HAZWOPER 8-Hour Site Supervisor Training (current)

OSHA 30-Hour Construction Safety Training

Pennsylvania Asbestos Building Inspector License (current)

Rig Pass Safeland Training

OSHA 510/500 Outreach Trainer courses

Certified Hazardous Materials Manager (CHMM) – Institute of Hazardous Materials Management

### EXPERIENCE & RESPONSIBILITIES

Joseph Webster has more than 20 years of experience with projects in the environmental industry. His current areas of focus includes environmental monitoring, site characterization, underground storage tank (UST) closures, aquifer testing, Phase I and Phase II Environmental Site Assessments (ESA), and scope of work (SOW) implementation. In his role as Senior Environmental Scientist, Mr. Webster is responsible for conducting field monitoring and investigations, documentation, and report preparation.

### PROJECT EXPERIENCE

#### Environmental Scientist; Atlas (2022 - present)

Current specific field activities conducted by Mr. Webster include contractor oversight for monitoring and recovery well install, groundwater sampling, soil logging in accordance with U.S. Geological Survey standards, contaminate assessment, monitoring well design, aquifer analysis via slug testing, and vapor intrusion sampling.

#### Project Scientist II; Clinton, PA (2009 – 2022)

Project Scientist responsible for the characterization and remediation of sites impacted by polychlorinated biphenyls (PCB) and heavy metals in accordance with the Toxic Substance Control Act (TSCA) and the Resource Conservation and Recovery Act (RCRA). In this role, Mr. Webster conducted field activities that included sampling of various media; managed contractors during large to small excavations, demolition, and construction of large and small structures; and managed waste streams during demolition and remediation projects. During these field activities, Mr. Webster generated documentation that was used to prepare Remedial Action Completion Final Reports (RACFR) and Risk Management Plans (RMP) for submission to the Environmental Protection Agency (EPA). All reports were prepared by Mr. Webster with the assistance of licensed Professional Geologists. Ancillary to these responsibilities, Mr. Webster also managed the Health and Safety program for the company, prepared Site Specific Safety Plans (SSSP) for all field projects, and conducted safety training for both field managers and project managers. In addition, Mr. Webster performed extensive groundwater sampling using low-flow methods and managed field events associated with soil characterization using drilling and geoprobe methods. The constituents associated with the sites and activities performed included volatile organic compounds (VOC), semi-volatile organic compounds (SVOC), polycyclic aromatic hydrocarbons (PAH), RCRA metals, and PCBs.

#### Associate Scientist; Cranberry Township, PA (2004 – 2009)

Associate Scientist responsible for implementing remedial action SOW at sites impacted by gasoline and diesel constituents as part of the Pennsylvania Department of Environmental Protection (PADEP) Corrective Action Process for storage tanks (Chapter 245). Mr. Webster conducted environmental monitoring and assessment and managed field activities during site characterization and remediation, which included managing contractors, implementing the corporate Health and Safety Plan, and generating field documentation that was used to prepare environmental reports for the Pennsylvania Storage Tank Cleanup Program.

# TAYLOR MAXWELL

## MEASUREMENT FIELD TECHNICIAN

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### EDUCATION

BS, Environmental Chemistry,  
Slippery Rock University, 2022

### CERTIFICATIONS

OSHA Hazardous Waste  
Operations and Emergency  
Response (40-Hour 29 CFR  
1910.120e)

American Traffic Safety Services  
Association Flagger Certification

APNGA Portable Nuclear Gauge  
Safety & U.S. D.O.T. Hazmat  
Certification

Certified Commercial Pesticide  
Applicator

### EXPERIENCE & RESPONSIBILITIES

Taylor Maxwell (she/her) is an Environmental Technician who is responsible for field operations, report writing, data analysis, and assurance. Ms. Maxwell completes field operations associated with groundwater and soil sampling and the development of monitoring wells as part of Phase II projects and site characterization efforts. She performs report writing for Site Characterization Reports, Remedial Action Plans, and Remedial Action Progress Reports. Ms. Maxwell is responsible for the analysis, interpretation, and modeling of groundwater data using ProUCL and Excel.

### PROJECT EXPERIENCE

#### Underground Storage Tank Release Remediation; Various Sites, PA

Environmental Technician working on the remediation of sites through the Pennsylvania Storage Tank and Spill Prevention Program (Chapter 245). Responsibilities include oversight of well installation, completing groundwater and soil sampling, completing remedial actions, attainment monitoring, and remedial action completion reporting. Responsible for working on quarterly reports to show progress toward attainment of the selected remediation standard. Remediation efforts have ranged from removal of light non-aqueous phase liquid (LNAPL) to monitored natural attenuation of constituents of concern (COC) in groundwater. Throughout the characterization and remediation process, coordinated with regulators, clients, and the Pennsylvania Underground Storage Tank Indemnification Fund (USTIF) to close releases and obtain Relief of Liability for clients as efficiently as possible, while limiting clients' cleanup costs.

#### Environmental Due Diligence; Various Sites, PA, TN, CA

Responsible for working on due diligence-related projects for commercial and industrial sites in support of real estate or financial transactions. For Phase I ESAs, relevant tasks include performing site inspections, reviewing historical documentation and environmental database listings, and preparing a Phase I ESA report for delivery to the client.

### PRIOR EXPERIENCE

#### ROW Maintenance; PA

Responsible for identifying and mapping invasive plant populations located along impacted natural gas right-of-way intersecting state forests. Created geodatabases using ArcGIS Pro and Field Maps and authored reports. Responsible for analysis and interpretation of field data to provide population data on target species.

#### Wetland Delineation; PA

Assisted in delineation and characterization of wetlands throughout northwestern and central Pennsylvania. Responsible for completing plots, data sheets, and reporting.

# DANIEL BROOKER

## MEASUREMENT FIELD TECHNICIAN

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### EDUCATION

BS, Environmental Biology with Minor in Sustainability, Clarion University, 2022

### CERTIFICATIONS

OSHA Hazardous Waste Operations and Emergency Response (40-Hour 29 CFR 1910.120e)

OSHA 1910.120 8-Hour Refresher Training (current)

APNGA Portable Nuclear Gauge Safety & U.S. D.O.T. Hazmat Certification

American Traffic Safety Services Association Flagger Certification  
CPR First Aid Certified

### EXPERIENCE & RESPONSIBILITIES

Daniel Brooker is an Environmental Technician with an educational background in wetlands and abandoned mine land (AML) sites. He is responsible for completing field operations, report writing, and coordinating the use of environmental equipment. Mr. Brooker completes field operations associated with groundwater, soil, and vapor sampling. He also completes report writing associated with Site Characterization Reports, Remedial Action Plans, and Remedial Action Progress Reports. Mr. Brooker is responsible for maintenance and coordination of environmental equipment at the Pittsburgh office, including ordering rental equipment, scheduling repair work, and taking inventory of sampling bottleware.

### PROJECT EXPERIENCE

#### Underground Storage Tank Release Remediation; Various Sites, PA

Environmental Technician working on the remediation of sites through the Pennsylvania Storage Tank and Spill Prevention Program (Chapter 245). Responsibilities include oversight of well installation, completing groundwater and soil sampling, completing vapor point installation and sampling, aquifer testing, completing remedial actions, attainment monitoring, and remedial action completion reporting. As part of characterization of releases, completed vapor intrusion evaluation using the Pennsylvania Land Recycling Program Technical Guidance Manual for Vapor Intrusion into Buildings from Groundwater and Soil under Act 2 guidance. Responsible for working on quarterly reports to show progress toward attainment of the selected remediation standard. Remediation efforts have ranged from removal of light non-aqueous phase liquid (LNAPL) to monitored natural attenuation of constituents of concern (COC) in groundwater. Throughout the characterization and remediation process, coordinated with regulators, clients, and the Pennsylvania Underground Storage Tank Indemnification Fund (USTIF) to close releases and obtain Relief of Liability for clients as efficiently as possible, while limiting clients' cleanup costs.

#### Superfund Site; Painesville, OH

Environmental Technician. Completes quarterly groundwater monitoring activities at an operating unit of a 1,100 acre-remediation project regulated under the US EPA CERCLA program (proposed NPL status). Responsibilities include collecting measurements of depth to water; depth to DNAPL; and total depth from monitoring wells, piezometers, and extraction wells; and collecting groundwater samples from monitoring wells. Mr. Brooker prepares quarterly monitoring reports that are submitted to the US EPA.

#### Wetland and Waterway Delineation, Fayette County, WV

Environmental Technician. Performed a wetland and waterway delineation, which required research on site location by using topographic maps. The task included identifying the wetland by plotting it using a tablet and a GPS receiver. Plant/tree species were identified and logged in order of dominance. Soil samples were collected to determine if they met the conditions. Hydrology sources were also identified by

# DANIEL BROOKER

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assessing the topography to predict where runoff would accumulate. Following the field work, Mr. Brooker provided reporting and data entry.

## **Emergency Responses; Various Sites, WV and PA**

Complete environmental response efforts for releases resulting from vehicle overfills, malfunctioning equipment, and fuel tanker accidents at retail fuel stations. These efforts have included initial on-site release assessment, initial clean-up, coordination with emergency response contractors, and communication with clients to provide guidance on regulatory requirements. Following initial environmental response work, provide follow-up reporting to state environmental agencies, along with additional sampling and characterization, as needed.

## **Construction Materials Testing; Various Sites, PA**

Responsible for inspecting site operations and completing field work during the construction and rebuild of commercial properties, commercial buildings, industrial buildings, large parking areas, roadways, and gas piping trenches. Field work includes sampling and testing of concrete, asphalt, grout, mortar, aggregate, and soils.

## **PCB Soil Sampling Assessment, Buffalo Niagara International Airport, NY**

Environmental Technician. Performed a PCB soil assessment at the Buffalo Niagara International Airport remote transmitter/receiver site. Soil sampling locations were plotted and collected surrounding the towers and buildings. The sample locations were marked using a tablet and GPS receiver. Provided reporting and data entry of the results.



# SETH KLINGBEIL

seth@trinitybend.com

## SUMMARY

Veteran software development professional with record of improving designs. Successful at evaluating current systems to uncover problems and implementing effective solutions that meet customer and business requirements.

Results-driven with strong history of contributing to system architecture design, establishing team objectives and overseeing project milestones. Methodical and well-coordinated professional with experience in Scrum framework and Agile-based environments.

## SKILLS

Agile Methods, Continuous Deployment Pipeline, Java, C#, .NET, ASP.NET, Web Services, Entity Framework, MS SQL

## EXPERIENCE

- 10/2020 to Present**      **Data Manager / Software Development Lead**  
**Well Done Foundation – Minot, North Dakota**
- 09/2020 to Present**      **Lead Software Developer**  
**Trinity Solutions, Inc – Minot, North Dakota**
- 12/2019 to Present**      **Owner**  
**Ringin Axe Software, LLC**
- 03/2020 to Present**      **Communications Lead / IT Infrastructure**  
**Grant County Emergency Operations Center – John Day, Oregon**
- 01/2017 to 04/2019**      **Professional Software Developer**  
**AT&T Inc. – Canyon City, Oregon**
- 10/2014 to 01/2017**      **Senior Software Developer**  
**DIRECTV – Fargo, North Dakota**
- 05/2012 to 10/2014**      **Software Developer II**  
**Multiband Corporation – Fargo, North Dakota**
- 06/2010 to 04/2012**      **Software Developer**  
**Infotech Minot Technology Center – Minot, North Dakota**
- 10/2006 to 05/2010**      **Student Manager Intern**  
**Student Technology Services of NDSU – Fargo, North Dakota**

## EDUCATION AND TRAINING

- 2010**      **Bachelor of Science: Computer Science**  
**NDSU – Fargo, North Dakota, US**

## ACTIVITIES AND HONORS

- Volunteer with Grant County Search and Rescue**
- Ham Radio Operator**

NICHOLE K. BOYER  
**NICHOLE K. BOYER**



(972) 922-8868 ♦ [nichole.boyer84@gmail.com](mailto:nichole.boyer84@gmail.com)

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**RELATED SKILLS & CERTIFICATIONS**

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- |   |                       |   |
|---|-----------------------|---|
| - Continuous Improvement Specialist (Lean, Six Sigma) | - Strategic Planning  | - Design Thinking for Business Innovation |
| - Data & Metrics Analysis                             | - Project Management  | - KPI Development                         |
| - Cost Analysis                                       | - Customer Experience | - Technical Writing                       |
|   | - Market Analysis     | - Change Management                       |

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**PROFESSIONAL EXPERIENCE**

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**VICE PRESIDENT BUSINESS ANALYTICS**

**Well Done Foundation — Bozeman, MT**

**Vice President Business Analytics** Sep 2023 - Present

- ♦ Drive process change and improve efficiency through Lean principles
- ♦ Manage project development pipeline for carbon credit and offset projects
- ♦ Provide analytics and data calculations for project feasibility, eligibility and project development
- ♦ Manage relationship with carbon registry, VVB's and other relevant entities throughout project lifecycle
- ♦ Define and develop tools, frameworks, and templates to facilitate project evaluation, design, and implementation

**BUSINESS ANALYST**

**Wilks Brothers — Fort Worth, TX**

**Business Analyst** Sep 2018 – Sep 2023

- ♦ Created business plan for new carbon credit project development for orphaned oil and gas wells.
- ♦ Developed and oversaw company-wide Learning Management program encompassing onboarding, needs assessments and career path learning objectives aligned to company strategy and goals.
- ♦ Developed preventative maintenance program for sand mining operation, resulting in a 40% reduction in unplanned downtime.
- ♦ Developed inventory management program identifying 1.1M in inventory value lost and implemented best practices – 5S warehouse, standardized procurement process, cycle counts, set re-order limits and developed KPI's.
- ♦ Optimized fluid end manufacturing process resulting in 95% cycle-time improvement.
- ♦ Worked with executive leadership to develop steady-state processes and standards for new start-up SaaS online auction business.
- ♦ Drafted and implemented corporate-wide policies for Mobile Device, Corporate Credit Card, Business Travel, Mileage Reimbursement, IT Workstation and Company Vehicles.
- ♦ Drafted and implemented standard operation procedures (SOP's) for financial lending business to meet new credit facility and periodic bank exam requirements.
- ♦ Led project to implement electronic expense reports and payroll reimbursement for business expenses.

**NICHOLE K. BOYER  
BUSINESS CONSULTANT**



**Southwest Airlines — Dallas, TX**

**Continuous Improvement Business Consultant – Network Operations Control**, Aug 2015 – Sep 2018

**Continuous Improvement Business Consultant** utilizing Lean and Six Sigma methodologies to identify waste and streamline processes while effectively collaborating with multiple departments to align priorities and drive the development and implementation of best practices for future state operational needs with a strong emphasis on data driven analytics and results.

- ◆ Led a team of 35 subject matter experts as part of a 2-yr high-profile continuous improvement initiative to regain operational efficiencies and decrease customer trip disruptions due to network volatility. This effort produced a new process to decrease aircraft swaps and network disruption by 25%, and improve overall maintenance work package planning and execution, reclaiming annually \$15M in hard costs and ~\$40M in lost revenue opportunity.
- ◆ Led cross departmental team aimed at improving crew hold decision making and better understanding decision tradeoffs with a focus on downline flight disruptions, customer trip disruptions, crew reroutes, unplanned deadheads and unplanned overnights. Improvement efforts resulted in a 20% reduction of crew holds and 0.4% improvement to on time performance, \$4.4M annually.

**Customer Experience & Innovation Analyst – Information Technology**, 2013 - 2015

- ◆ **Customer Experience Analyst** gathering customer experience insights and market trends to identify and prioritize improvements in customer experience across the Technology Commercial Portfolio. Actively applies customer experience impact assessments to new initiatives as an integrated part of the governance process, while building organizational awareness, knowledge, and passion for customers through targeted proactive communication and efforts to strengthen and support a customer-centric culture.
- ◆ **Innovation Lead**, worked collaboratively with technology executive leadership and internal business customers to define the strategy and program design for an innovation program, with the purpose of driving transformational thought and change throughout Southwest Airlines while adding value in customer experience, efficiency and overall profit. Ongoing efforts include partnering with technology leaders and internal business customers to help foster innovative ideas, define stage gate criteria, develop trial/prototype plans and metrics for objective reporting, prioritization and recommendation to key stakeholders.

**Strategic Planning Analyst – Strategic Planning and Implementation**, 2011 – 2013

Contracted as a Strategic Planning Analyst responsible for the planning and oversight of enterprise and department level strategic initiatives. Provided analytic insights to develop and assess solutions to a diverse range of initiatives (i.e. AirTran integration, international flying, Multi-fleet program) that were key to the future success of Southwest Airlines.

**TRAINING ADMINISTRATOR – LOCKHEED MARTIN – GRAND PRAIRIE, TX**

Feb 2011 – Jul 2011

**PRODUCTION COORDINATOR – GULFSTREAM AEROSPACE — DALLAS, TX**

2005 – 2009

**AIRCRAFT STRUCTURAL MECHANIC – USAF**

2003 – 2005



# Erika Kinninger, MS

[erikakinninger@gmail.com](mailto:erikakinninger@gmail.com) • (619) 559-6364 • [www.linkedin.com/in/erika-kinninger](http://www.linkedin.com/in/erika-kinninger)

## Professional Summary

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I am an accomplished early-career environmental science professional, adept at developing technically derived solutions and effectively communicating complex concepts to diverse stakeholders. Adaptable and successful in fast-paced environments, I am passionate about protecting the planet and driving positive change through innovative solutions.

## Education

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### University of Michigan, Ann Arbor, MI

School for Environment and Sustainability (SEAS)

August 2021- April 2023

- Master's of Science in Environmental Science and Sustainability

### San Diego State University, San Diego, CA

- Bachelor's of Arts in Sustainability

## Work History

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### Environmental Project Manager/ QMS, Well Done Foundation, Montana

May 2024- Present

- Conduct data analysis to assess the impact of WDF's efforts on reducing methane and other GHG emissions from orphaned oil & gas wells.
- Support the Qualified Measurement Specialist (QMS) program and conduct educational training, integrating Computer Based Training (CBT) for remote learning, facilitator-led classroom sessions, and hands-on fieldwork with orphaned oil & gas wells.
- Identify and author detailed grant applications, securing funding for various projects.
- Partner with college campus organizations and departments to educate and promote the organization's initiatives and efforts.
- Develop engaging and informative weekly newsletters for the foundation subscribers, highlighting key updates, events, and initiatives.
- Manage the updating and maintenance of internal database, ensuring accuracy and relevancy of data.

### Environmental Fellow, Well Done Foundation, Montana

March 2024- May 2024

- Develop engaging and informative weekly newsletters for the foundation subscribers, highlighting key updates, events, and initiatives.
- Partner with college campus organizations and departments to educate and promote the organization's initiatives and efforts.
- Manage the updating and maintenance of internal database, ensuring accuracy and relevancy of data.

### Sustainability Consultant, Master's Research Project Client: Meijer, Grand Rapids, MI

January 2022 – April 2023

- Spearheaded foundational framework to calculate and manage GHG Scope 3 emissions across Meijer's entire supply chain in alignment with the GHG protocol internationally accepted accounting and reporting standards.
- Produced a detailed GHG emissions analysis, wrote of a comprehensive report, and delivered a presentation outlining a strategic roadmap for reducing emissions.
- Conducted extensive market research for comprehensive benchmarking analysis to understand methodologies employed by peer companies.
- Managed the project, identifying and recommending improvements to ensure target timeline was met and project stayed within budget.



**Clinical Trials Assistant II** Biosplice Therapeutics (previously Samumed), San Diego, California  
February 2021 – August 2021

- Ensured electronic Trial Master File (eTMF) Binders were current, accurate, and audit ready by performing quarterly eTMF quality control reviews.
- Managed 5 clinical study's eTMF platforms to ensure accurate regulatory submissions and assisted the Regulatory department by submitting study updates in compliance with Food and Drug Administration (FDA).
- Facilitated correspondence between the Institutional Review Board for 5 clinical studies.
- Assisted the Quality Assurance department by revising team training materials in addition to managing study team training forms.

**Clinical Trials Assistant I** Biosplice Therapeutics (previously Samumed), San Diego, California  
February 2019 – February 2021

**Skills**

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- |                         |                         |                          |
|-------------------------|-------------------------|--------------------------|
| • Microsoft Office      | • Project Management    | • Stakeholder Engagement |
| • Educational Outreach  | • Regulatory Compliance | • Data Analysis          |
| • Environmental Science | • Quality Assurance     | • Grant Writing          |

# JIM KOSSER

## FIELD SUPERVISOR

### EDUCATION

BS, Biology, Kent State University  
Graduate Studies, Plant Ecology,  
The Ohio State University

### SPECIALIZED TRAINING

Method 9 certification Ohio EPA  
Headwater Habitat Evaluation  
Index (HHEI) and Qualitative  
Habitat Evaluation Index (QHEI)  
Ohio EPA Ohio Rapid  
Assessment  
Method for Wetlands (ORAM)  
Wetland Construction Series,  
Wetland Training Institute Inc.  
(WTI)  
Wetland Delineation Training,  
Regional Manuals, WTI  
Winter Botany, WTI

### PROFESSIONAL AFFILIATIONS

Society of Wetland Scientists  
Natural Areas Association

### EXPERIENCE & RESPONSIBILITIES

Jim Koser has been a practicing ecologist since 1986, with experience in both the private and public sectors. He has completed projects in West Virginia, Virginia, Pennsylvania, Ohio, Arkansas, Illinois, Indiana, Kentucky, Maine, Maryland, Michigan, New York, Ohio, and Texas. His responsibilities at Atlas include leading wetland and natural resource investigations, permitting, business development, mentoring staff and project management. Mr. Koser has performed and managed natural resource evaluations, wetland delineations, permitting and mitigation, endangered species assessments, NEPA and FERC documentation, park and nature preserve planning and management, ecosystem restoration and ecological risk assessment, and surveys for invasive and state and federally listed species. His clients have included state, local and federal governments and agencies; electric and gas utilities; oil and natural gas pipeline companies; not-for-profit groups and developers.

### PROJECT EXPERIENCE

#### **Lead Scientist, Field Tests of the Operational Draft Regional Guidebook for the Functional Assessment of High-gradient Ephemeral and Intermittent Headwater Streams in Western West Virginia and Eastern Kentucky, US Army Corps of Engineers Huntington District and Environmental Laboratory, Engineers Research and Development Center, West Virginia and Kentucky**

Development Center, West Virginia and Kentucky Led a group of aquatic and wetland ecologists who performed field tests to validate the draft HGM models for high-gradient and intermittent headwater streams. The crews collected data on stream morphology, bed materials, flow, riparian vegetation, bank conditions and stream biology, using both the HGM methods and other established assessment methods. Samples were taken in a range of sites from undisturbed streams to streams affected by mountaintop removal and acid mine drainage. Results were compared across methods. Analyzed data and authored the final report.

#### **Senior Ecologist, Wetland and Stream Delineations, Fink-Kennedy Pipeline Replacement, Dominion Energy, West Virginia**

Delineated wetlands and 100-foot stream buffers for this project designed to replace the aging lines in Dominion's Fink-Kennedy gas storage field, located in Lewis and Harrison Counties. Mr. Koser led field teams that completed the delineation studies and estimated permitting requirements for the expansion of this existing gas field.

#### **Senior Ecologist, Greenbrier Pipeline Wetland Delineation and Plant Community Mapping, Dominion Energy, West Virginia, Virginia and North Carolina**

Helped develop electronic mapping tools and standards to identify and delineate wetlands, plant communities, listed species sites and archaeological resources along a proposed new pipeline route. The proposed line began in central West Virginia and stretched over 400 miles into North Carolina. The team used a field portable GIS driven by pentop computers, and sub-meter accuracy GPS receivers to map sensitive features along the proposed route. Served as a technical advisor to the group and helped perform field delineations.

**Lead Scientist, Mountaineer Power Plant, Wetland Delineation and Plant Community Mapping, American Electric Power, West Virginia**

Mr. Kooser was the lead scientist for studies to delineate wetlands and map plant communities for a project intended to support the proposed conversion of the Mountaineer Power Plant to clean coal. The delineation and vegetation mapping were used to support permitting for the conversion and expansion of the facility.

**Lead Scientist and Project Manager, Huntington District, Biological Assessment for the, Monday Creek Acid Mine Drainage Treatment Program, US Army Corps of Engineers, Hocking County, Ohio**

Led a Biological Assessment of potential effects of proposed acid mine drainage treatments in the Monday Creek watershed in the Hocking Hills region of SE Ohio. The team assessed potential effects on Indiana Bat (*Myotis sodalis*), American Burying Beetle (*Nicrophorus americanus*), Running Buffalo Clover (*Trifolium stoloniferum*), Small Whorled Pogonia (*Isotria medeoloides*), and Northern Monkshood (*Aconitum noveboracense*). Prepared the final document for the Corps of Engineers

**Consultant Representative to Team, Hydrogeomorphic (HGM) Functional Assessment Model Development, US Army Corps of Engineers Waterways Experiment Station**

**and Penn State University, Pennsylvania, Ridge and Valley Province**

Assisted the Pennsylvania A-Team in developing models for the Hydrogeomorphic Method for wetland functional assessment. The team included scientists from the USEPA, Baltimore District Corps of Engineers, Pennsylvania State University. Gathered data on wetlands throughout the Ridge and Valley physiographic province. The team sampled a range of sites from pristine, undisturbed areas to sites affected by acid mine drainage. Helped evaluate and test new functional assessment models. Models and data were presented to a peer review team. Funding was provided by the US Environmental Protection Agency (Region 3), Baltimore District of the US Army Corps of Engineers and the Pennsylvania Department of Environmental Protection.

**Senior Ecologist, Water Quality Monitoring\*, Marathon Oil, Canton, Ohio**

Led a team of scientists who collected fish and macroinvertebrate data in order to calculate an Index of Biotic Integrity and Index of Community Integrity. Fish data were collected using a boat mounted electrofishing unit. Macroinvertebrates were collected using Hester-Dendy multiplate samplers supplemented with kick-net samples. Analyzed data using Ohio EPA procedures and prepared a monitoring report.

# KYLE HELAL

## FIELD SUPERVISOR

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### EDUCATION

BA, Environmental Studies,  
University of Pittsburgh, 2007

### CERTIFICATIONS

USACE 40-hr Wetland  
Delineation Certification, Richard  
Chinn Environmental, 2008

PA DCNR Wild Plant  
Management Permit (#20-589),  
PA DCNR 2020

First-Aid/CPR/AED Training,  
American Red Cross, 2019

Rabies 3-dose pre-exposure  
vaccination, ACHD, 2015

OSHA 10-Hour Construction,  
Safety, & Health Training, 2013

Safeland USA Training, PEC, 2012

### EXPERIENCE & RESPONSIBILITIES

Kyle Helal is a wetlands scientist in Atlas' Environmental Services Division. With over 13 years of project management and regulatory compliance experience in the natural resources sector, Mr. Helal's areas of focus include Clean Water Act permitting and compliance, wetland delineation and reporting, biological assessments, Endangered Species Act consultation and mitigation, environmental health and safety compliance, due-diligence assessments, and GIS services.

### PROJECT EXPERIENCE

#### **USACE and State Clean Water Act Permitting Management, Natural Gas Well Pad Developments; West Virginia, Pennsylvania, and Ohio**

Managed the environmental compliance and permitting of Marcellus and Utica natural gas well sites and impoundments in West Virginia, Pennsylvania, and Ohio. Responsibilities included permit identification and tracking related to new site development; proposal authorship; contracting; budgeting; biological and cultural survey management and associated agency consultation; wetland delineation; habitat assessment; client and agency communications; preparation and submittal of all federal, state, and municipal environmental permit packages; technical report authorship and senior review; sub-contractor communications and management; process improvement identification; and implementation of lessons learned. Management of these projects required constant, stringent coordination with all agencies and client representatives involved to avoid unnecessary permitting delays, with regular status check-ins with the client manager and agency permitting manager, due to the time-sensitive nature of most natural gas projects.

#### **USACE and State Clean Water Act Permitting Management, Linear Natural Gas Projects, West Virginia and Ohio**

Managed the environmental compliance and permitting of linear projects associated with Marcellus and Utica natural gas developments in West Virginia, Pennsylvania, and Ohio, including underground pipelines, underground and aboveground water lines, and road improvements. Responsibilities included permit identification and tracking related to new site development; proposal authorship; contracting; budgeting; biological and cultural survey management and associated agency consultation; wetland delineation; habitat assessment; client and agency communications; preparation and submittal of all federal, state, and municipal environmental permit packages; technical report authorship and senior review; sub-contractor communications and management; process improvement identification; and implementation of lessons learned. Management of these projects required constant, stringent coordination with all agencies and client representatives involved to avoid unnecessary permitting delays, with regular status check-ins with the client manager and agency permitting manager, due to the time-sensitive nature of most natural gas projects.

## **Wetland Delineation Project, North East Township, Erie County, PA**

Project Manager and lead wetland delineator for delineation of 50.3-acre site in North East Township, Erie County, PA. Project involved wetland delineation, reporting, and survey sub-contractor coordination.

## **Wetland Delineation Project, Millcreek Township, Erie County, PA**

Project Manager and lead wetland delineator for delineation of 10.23-acre site in Millcreek Township, Erie County, PA. Project involved wetland delineation, reporting, feature staking, and survey sub-contractor coordination.

Wetland Delineation Project, Harborcreek Township, Erie County, PA

Project Manager for delineation of previously-surveyed 37.6-acre site in Harborcreek Township, Erie County, PA. Responsibilities included field data management and correction, reporting, GIS data and mapping coordination, figure production, and survey sub-contractor coordination.

## **Wetland Assessment and Compliance Project, Erie County, PA**

Project Manager and field lead for a wetland assessment project in Erie County, PA. Project involved an assessment of a small wetland area on private property, and follow-up correspondence with Erie County Conservation District regarding compliance measures required to address previously issued violations to the client. Responsibilities included site characterization, wetland assessment, and agency consultation.

## **ECCD Chapter 105 Permit Package Revision and Compliance, Erie County, PA**

Project Manager for an Erie County Conservation District permit package revision. Client experienced bank erosion along a previously-permitted section of land adjacent to Lake Edinboro that was threatening to damage existing parking areas. Project involved collecting field measurements for required additional permit areas; revising the site E&S Plan, PNDI Report, and Site Plans with the additional acreage required for bank stabilization; and coordination with Erie County Conservation District and PA Department of Conservation and Natural Resources to ensure agency compliance. Responsibilities included

permit package revision, E&S plan revision, and agency correspondence.

## **Dam Methane Mitigation Project, Indiana County, PA**

Project Manager for a methane mitigation project for a dam in Indiana County, PA. Project involved a site characterization study of the dam and geological resources below the dam, specifically regarding coal bed methane, development of a methane mitigation pilot plan, implementation of the pilot plan, and installation of a permanent methane mitigation system. Responsibilities included site characterization study authorship, oversight of on-site activities, project communications with the teaming partner, overall QA/QC, and agency consultation.

## **Phase I & II Environmental Site Assessments, Industrial Property, Irwin, PA**

Project Manager for Phase I and II Environmental Site Assessments of a cross-dock trucking distribution center and warehouse in Irwin, PA using ASTM E1527-13 Standards for Phase I Environmental Site Assessments, and ASTM E1903-19 Standards for Phase II Environmental Site Assessments. Responsibilities included soil sampling, sub-slab soil vapor sampling, report writing, sub-contractor coordination, state health standards database review, client communications, and QA/QC.

## **Phase II Environmental Site Assessment, Commercial Property, Warren, PA**

Project Manager for Phase II Environmental Site Assessment of franchised restaurant in Warren, PA using ASTM E1903-19 Standards for Phase II Environmental Site Assessments. Responsibilities included sub-contractor coordination; report writing; state health standards database review; client communications; and QA/QC.

## **Phase II Environmental Site Assessment, Commercial Property, Wilkes-Barre, PA**

Project Manager for Phase II Environmental Site Assessment of franchised restaurant in Wilkes-Barre, PA using ASTM E1903-19 Standards for Phase II Environmental Site Assessments. Responsibilities included report writing; state health standards database review; client communications; and QA/QC.



## BIOGRAPHY



Ms. Zimmerman is an architectural historian and licensed professional engineer with over 20 years of experience in historic preservation and environmental review. Since founding Aurora Research Associates, LLC in 2011, Ms. Zimmerman has provided Section 106/4(f) review, cultural and natural resource field survey, public involvement, report preparation, and mitigation services for clients including DOTs, state and local governments, A/E firms and environmental consultants. Ms. Zimmerman has multidisciplinary experience in cultural and natural resources, technical writing, and structural/civil engineering and has a comprehensive understanding of highway projects from design through construction. She has overseen the survey and National Register evaluation of thousands of historic resources and is skilled at working with a diverse array of stakeholders.

## EDUCATION

- M.S. Historic Preservation, Columbia University, New York, NY, 2003. Thesis: *Jackson's Mill State 4-H Camp: The Summer Camp as a Cultural Heritage Site*. Recipient of the Voorsanger Writing Prize, 2003.
- B.S. Civil Engineering, *Magna Cum Laude*, Honors Scholar, West Virginia University, Morgantown, WV, 2001. Tau Beta Pi Engineering Honorary, Chi Epsilon Civil Engineering Honorary.

## PROFESSIONAL QUALIFICATIONS

- Licensed Professional Engineer in Ohio (No. 75861) and West Virginia (No. 17954)
- Secretary of the Interior Qualified Architectural Historian
- ODOT Prequalification: Historic/Architectural Surveys, Section 4(f)/6(f), Categorical Exclusions
- Certified woman-owned small business (Ohio EDGE, DBE, SBA EDWOSB, Cuyahoga Co., NEORSD, et al.)

## EXPERIENCE AND SKILLS

- Section 106 Review /Section 4(f) Analysis
- Architectural Resource Surveys
- Public Involvement
- 12 years as a self-employed consultant
- SHPO Coordination
- NEPA CE and EA documents
- Geographic Information Systems
- 6 years as WV Division of Highways Environmental Staff

## PROJECT HIGHLIGHTS

### Owner/Architectural Historian, Aurora Research Associates, LLC

- **West Virginia Division of Highways Cultural Resources Consultant.** Client: West Virginia Division of Highways. One of the multiple firms selected to provide cultural resource environmental services as needed, including Section 106 and 4-f review, memoranda of agreement, public involvement, mitigation, and NEPA clearance for highway and bridge projects throughout WV.
- **City of Cleveland Storefront Renovation Program, Cleveland, OH, 2020-21.** Client: City of Cleveland. Assisted CDBG-funded storefront renovation program, including seeking out potential building owner applicants, assisting with applications, drafting agreements, providing renovation project resources, and preparing grant rebate documentation.
- **Bellflower Solar Project, Brunswick County, VA, 2023-24.** Client: Apogee Environmental/Timmons Ground/Dominion Solar. Prepared intensive-level documentation of historic farmhouse as mitigation for its removal. Prepared viewshed analysis for separate property using photographs and GIS analysis.
- **Akron Lowhead Dam Project, Akron, OH 2023-24.** Client: City of Akron/EnviroScience, Inc. Managed cultural resources review of stream restoration project for Little Cuyahoga River. Oversaw and reviewed archaeological investigations, conducted history/architecture survey of 3 dam structures and prepared OHPO Project Summary Form.

- **Cocke County Veterans' Memorial Building, Newport, TN, 2023-24.** Client: BBJ Group/Westcare Inc. Managed archaeological investigations and prepared Determination of Effect for conversion of National-Register listed property to recovery housing. Prepared and negotiated Memorandum of Agreement for adverse effect to historic structure. Coordinated with the Tennessee SHPO and other local and state agencies.
- **US Route 1 Maryland Historic Resource Survey, Baltimore, Prince Georges, and Howard Counties, Maryland, 2022-23.** Client: Anacostia Trails Heritage Area. Prepared research report for US Route 1 corridor between Baltimore and Washington DC, covering colonial through 20<sup>th</sup>-century interstate contexts. Conducted reconnaissance-level historic resource survey of over 500 road-related resources along the 30-mile corridor.
- **Gorge Dam Removal Section 106 Review, Akron, OH, 2018-19.** Client: Summit Metroparks. Surveyed Gorge Metro Park for historic resources and authored a Determination of Effects report for removing a 100-year-old dam, the last to be removed from the Cuyahoga River.
- **Charleston East End Historic District Survey Update, Charleston, WV, 2018-2019.** Client: Charleston Historic Landmarks Commission. Surveyed approximately 400 resources within the existing National Register Historic District, including detailed narrative descriptions and evaluation of NRHP status.
- **Reconnaissance Historic Resource Survey, Pleasants, Mason, Jackson, Lincoln and Wayne Counties, WV, 2016-2017.** Client: West Virginia State Historic Preservation Office. Led a 3-person team in a survey of 750 resources across five counties. Managed all aspects of the project, including scope, field survey methodology, schedule, and survey report. Developed iPad app for historic resource surveys.
- **Coal Heritage Survey Update, McDowell County, WV, 2016-2018.** Client: West Virginia Division of Highways (Transportation Enhancement Grant). Planned and managed a survey of over 2,000 historic coal-related resources previously surveyed in 1991. Hired and led a team of 7 in the field. Coordinated completion and review of Historic Property Inventory (HPI) forms and survey report.
- **Robinson Grand Theater Renovation Section 106 Review, Clarksburg, WV, 2014-16.** Client: WYK Associates. Coordinator of Section 106 review for historic theater restoration receiving USDA Rural Development funding, including historical research, report preparation, agency coordination, and public involvement.
- **National Register of Historic Places Nominations.** Prepared National Register nominations for 17 individual properties and historic districts, covering hundreds of resources, including 18<sup>th</sup>-20<sup>th</sup> century residences, summer camps, historic bridges, and industrial and educational facilities.

#### Architectural Historian, West Virginia Division of Highways Environmental Section

- **West Virginia Statewide Historic Bridge Survey, 2008-2011.** Partners: KCI Technologies, Mead and Hunt, RPM Engineering. Served as project manager for a statewide effort to survey 3000+ historic bridges.
- **U.S. Route 35 Upgrade, Mason County, WV, 2005-2011.** Prepared re-evaluation of the Final Environmental Impact Statement and Late-Find 4(f) for the multi-million-dollar upgrade of the regional highway. Coauthored mitigation plan to address adverse effects and oversaw its execution.
- **Small Bridge Replacement Projects, West Virginia (statewide), 2005-2011.** Managed Section 106 Review, Section 4(f) Analysis, and NEPA coordination for over 40 small bridge replacement projects. Reviewed all WV HPI forms and reports produced by the Environmental Section. Performed field surveys of bridges and surrounding structures. Coordinated with the WVSHPO, public, local governments, and historic groups on research, eligibility determinations, and mitigation. Crafted Memoranda of Agreement and archival documentation for historic structures.
- **Mussel Survey Dive Team, 2009-2011.** Obtained open-water SCUBA certification and trained in freshwater mussel survey techniques to assist WVDOH biologists with environmental studies.



## BIOGRAPHY

Sarah is a SOI-qualified architectural historian with over 10 years of experience in historic preservation, heritage tourism, research, and writing. She specializes in Appalachian history and has researched and documented thousands of historic resources in Southern West Virginia.

## EDUCATION

- **Certificate in Geographic Information Systems**, Mountain Empire Community College, May 2021
- **Certificate in Historic Preservation**, Bucks County Community College, August 2019
- **Master of Arts** in American Studies, The University of Alabama, December 2007
- **Virginia Teaching Certification** in 6-12 Social Studies and History, Bluefield College, May 2005
- **Bachelor of Arts** in American Studies, Randolph-Macon Woman's College, May 2003

## PROJECT HIGHLIGHTS

### **Architectural Historian, Aurora Research Associates, LLC**

**2016 to present**

#### **Pikeville Commercial District Survey and National Register Nomination, 2024 (ongoing)**

Completed a history survey of the Pikeville Commercial Historic District. Surveyed commercial & residential properties and prepared 60 Kentucky Historic Properties Main Street/Certified Local Government Survey Forms.

#### **Warwood Historic District National Register Nomination, 2023 (ongoing)**

Prepared National Register of Historic Places Nomination for the Warwood Historic District in Wheeling, West Virginia including background research, architectural narrative, and significance statement and narrative.

#### **Green Book Sites in West Virginia, Multiple Property Documentation, 2023 (ongoing)**

Prepared a Multiple Property Documentation for Green Book Sites in West Virginia, including historical background and historic contexts. Research topics included Black Migration to WV, the Role of Black Women in WV, the Jim Crow/Segregation Era in WV, and 20<sup>th</sup> century Automobile-Related Transportation in WV. Wrote National Register of Historic Places nominations for the Bluefield Green Book Historic District, two Black-operated hotels in Bluefield, Mercer County, West Virginia and the Morgantown Green Book Historic District, three Black-operated tourist homes in Morgantown, Monongalia County, West Virginia.

#### **US Route 1 Windshield Survey, 2023**

Assisted with a windshield survey of US Route 1 between Baltimore, Maryland and Washington, DC, including reviewing existing literature, writing a research report, creating an Excel spreadsheet of previously surveyed properties, and photographing properties. Research topics include the Baltimore & Washington Turnpike, Baltimore & Ohio Railroad, Baltimore & Potomac Railroad, streetcars and trolleys, US Route 1, Baltimore & Washington Parkway, and Interstate 95.

#### **New River Gorge National Park Historic Resource Survey, 2022**

Assisted with a historical survey of the New River Gorge National Park, including writing historical context, WVSHPO file search, field survey, and HPI preparation for 21 resources. Research topics included the coal and railroad industries, agriculture, state parks, Civilian Conservation Corps (CCC), and New River Gorge National Park history.

#### **Glendale Steps National Register Nomination, 2022**

Prepared National Register of Historic Places nomination for the Glendale Steps in Akron, Ohio, a set of terraced stone steps designed by landscape architect Warren H. Manning and construction in 1937 by the WPA. (Listed 2023)

#### **Buxton & Landstreet National Register Nomination, 2021**

1436 Graham Road, Silver Lake, OH 44224 • (304) 685-7410 • [www.aurora-llc.com](http://www.aurora-llc.com)

Prepared National Register of Historic Places nomination for the Buxton and Landstreet Company Store in Thomas, West Virginia, including historical background, photography, narrative architectural description, and significance statement. (Listed April 2022)

**West Virginia State University Historic Resource Survey and Faculty Houses National Register Nomination, 2020**

Surveyed and prepared HPis for 50 structures on the West Virginia State University campus and in the town of the Institute. Conducted research about West Virginia State University, Public Works Administration, and architect John C. Norman, Sr. Contributed to survey report historical context and prepared National Register nomination for the WVSU Faculty House Historic District (Listed April 2021)

**West Virginia Schools for the Colored Deaf and Blind National Register Nomination, 2018–2019**

Prepared a National Register nomination for the West Virginia Schools for the Colored Deaf and Blind (Listed March 2021), including historical context and statement of significance. Presented the nomination at the West Virginia Department of Arts, Culture, and History Fall Meeting

**WVDOH Section 106 Surveys, 2018–2019**

Surveyed properties in Bartley Bottom (McDowell County) and Clear Fork (Wyoming County) for two West Virginia Division of Highways bridge replacement projects. Identified and evaluated eight structures of National Register eligibility. Determined that both bridge replacement projects would have no adverse effect.

**East End Historic District Historic Resource Survey Update, 2018–2019**

Surveyed prepared HPI forms for 178 residences and commercial structures in the East End Historic District for the Charleston Historic Landmarks Commission. Identified significant architectural details, wrote detailed narrative architectural descriptions for each property and identified structures as contributing or noncontributing.

**Coal Heritage Survey Update, McDowell County, WV, 2016–2017**

Member of a seven-person team who updated the 1991 Coal Heritage Survey for 2000 historic structures in McDowell County for the West Virginia Division of Highways. Surveyed and completed HPI forms for over 200 buildings using a FileMaker Pro database. Evaluated each structure for potential National Register eligibility on the National Register of Historic Places. Conducted historical research about the coal and railroad industry, significant individuals, properties, and four communities in McDowell County

**OTHER WORK EXPERIENCE**

**GIS Intern: City of Bluefield Economic Development Authority, January 2021–May 2021**

Created an ArcGIS StoryMap of historic resources in Bluefield, West Virginia. Selected historic commercial buildings, residences, schools, and athletic venues for the map, wrote 33 historic resource summaries, conducted historical research about the development of Bluefield, and created individual maps of 4 historic districts, three individual properties, and the City Park.

**AmeriCorps VISTA Program Director & Depot Clerk, National Coal Heritage Area, August 2013 to January 2023**

Conducted historical research online and at local, regional, and state repositories on topics including the glass, railroad, and mining industries. Prepared content for 28 interpretive signs throughout Southern WV. Coordinated the NCHAA's AmeriCorps VISTA program. Planned and conducted events, including festivals, service days, preservation, and heritage conferences. Managed the Bramwell, WV Interpretive Center's gift shop, museum, and art gallery.

**AmeriCorps VISTA, Community & Economic Development Coordinator, Mercer and Summers Counties: New River Gorge Regional Development Authority, February 2011–July 2013**

Created the Adopt a Window program to fill vacant storefronts resulting in the beautification of downtown Hinton. Created the Summers County Dilapidated Structures (SCDS) program; documented 30 dilapidated structures resulting in the Dilapidated Structures Properties List and coordinated monthly meetings for the SCDS Committee. Documented the Historic Oak Hill Cemetery near Bramwell. Wrote a National Scenic Byways grant for interpretive signs at the John Henry Historical Park in Talcott.

**Additional Education, Training, and Conferences**

- Cemetery Restoration Workshop, 2021
- ESRI User Virtual GIS Conference, 2021
- Preservation Alliance of West Virginia Virtual Conference, 2020 and 2021
- Chamber of Commerce of the Two Virginias Adult Leadership Class, 2019
- Virginia Association for Mapping and Information Systems, Virginia GIS Conference, 2017
- National Preservation Institute Seminars, Section 106 Review, Emerging Technologies for Cultural Resources, and Importance of Mapping Cultural Resources
- West Virginia State Historic Preservation Office, How to Write National Register of Historic Places Nominations, and preservation grants and tax incentives workshops
- Virginia Department of Historic Resources, Cemetery Documentation, and Conservation workshop



### **BIOGRAPHY**

Jacob Spuck has over 16 years of diverse professional experience in the Environmental and Cultural Resources Management field in 29 states and four countries, with specialized skills in Geophysics, Fluvial/Coastal-Marine/Lacustrine Geomorphology, Maritime and Terrestrial Archaeology, Remote Sensing, Geographic Information Systems, Environmental Planning, and NEPA project management.

### **EDUCATION**

- Ph.D., Physical Geography, Florida State University, Tallahassee, FL. Coursework completed, Ph.D. Candidate Status
- M.S. Environmental Planning (Archaeology Focus), Indiana University of PA, Indiana, PA, 2009.
- B.S. Physical Geography/Glomorphology, Anthropology, Clarion University of PA, Clarion, PA, 2008.

### **PROFESSIONAL QUALIFICATIONS**

- Meets Secretary of the Interior's Standards for Professional Qualification as an Archaeologist
- Professional Geomorphologist and Prehistoric Archaeology/Historic consultant in 9 states
- Registered Professional Archaeologist and Professional Wetland Scientist (applications pending)
- GISCI licensed GIS Professional (#52110)
- Remote Airman (UAV) Certificate, part 107 FAA
- Certified NAUI Open Water Diver/Specialty/Enriched Air Diver

### **EXPERIENCE**

#### **Principal Investigator, Aurora Research Associates, LLC, 2020 to present**

Lead for archaeological services, including scope/fee proposals, fieldwork, report preparation, and project team/client coordination. Assists with marketing and business development efforts.

#### Project Highlights

"Phase I Cultural Resources Survey of the Cuyahoga River Riparian Forest and Wetland Restoration Project Located Within the Cuyahoga Valley National Park". Summit County, OH. Client: Nature Conservancy and National Park Service. 2023.

"Phase 1 Cultural Resources Survey of the Hank Solar Development Site." Fulton County, Pennsylvania. Client: Pine Gate Renewables. 2023.

"Phase 1 Cultural Resources Survey of the Cuyahoga Valley National Park and Sagamore Hills Restoration Project." Summit County, OH. Client: Nature Conservancy and National Park Service. 2022.

"Phase I Archaeology Report -Sunset Beach Roadway Development Project": Monongalia County, WV. Client: WVDOH (with ARA and Mott MacDonald.) 2021.

#### **Geoarchaeologist/Geoscientist II, AECOM, 2015 – 2017**

#### **Principal Investigator, Cultural Resources and Environmental Lead, Lennon Smith Souleret, 2011 -- 2015**

#### **Principal Investigator/ GIS Analyst, Bowman Consulting, 2010 -- 2012**

#### **Instructor of Geography and Geology, Pennsylvania State U./Clarion University of PA, 2011 -- 2018**

#### **Principal Investigator, Paciulli, Simmons and Associates, LTD, 2010 -- 2012**

#### **Geology Technician, Quaternary Geological and Environmental Consultants, LLC, 2007 -- 2011**

1436 Graham Road, Silver Lake, OH 44224  
(304)685-7410

[www.aurora-llc.com](http://www.aurora-llc.com)

# APPENDIX



## C. PERSONNEL CERTIFICATIONS



## Ben Staud, PE |

**Search: Details**

**Name:** BENJAMIN T. STAUD

**WV Professional Engineer:** PE License Number: 020372

PE License Status: Active

PE Issue Date: 08/05/2013

PE Expiration Date: 12/31/2024

**Continuing Education Claim:** Qualifying Hours from Last Renewal or Reinstatement: 31.50

Carryover Hours for Next Renewal: 1.50

Last Renewal or Reinstatement Date\*: 12/23/2022

**WV Engineer Intern:** EI Certification Number: 7096

EI Issue Date: 06/25/1997

**Primary Address of Record:** 270 WILLIAM PITT WAY  
BUILDING A3 3RD FLOOR  
PITTSBURGH, PA 15238

**Primary Employer of Record:** ATLAS  
270 WILLIAM PITT WAY  
BUILDING A3 3RD FLOOR  
PITTSBURGH, PA 15238

\* This date reflects the most recent license renewal (or reinstatement) date for this licensee. Continuing education hours earned prior to this date may not be used for future renewals.

This data was retrieved on 8/22/2023.



**West Virginia State Board of Registration  
for Professional Engineers**

**BENJAMIN T. STAUD  
WV PE #020372**

This is to certify that the above named PROFESSIONAL ENGINEER has met the requirements of the law, is duly registered and is entitled to practice engineering in the State of West Virginia.

**EXPIRES December 31, 2024**

## Adam Derry, P. Eng | Technical Advisor



**Adam Derry**  
Professional Member  
140169

**Designation:** P.Eng.  
**Practicing Status:** Practicing  
**Membership Status:** Active  
**Good Standing:** Yes  
**Renewal Date:** 01 DEC 2023  
**Expiry Date:** 30 NOV 2024

To view the member's current information and restrictions, refer to the directory on [www.apega.ca](http://www.apega.ca)

*J. Nagendran*  
Registrar & CEO

Registrant Card Information as at 16 AUG 2024

# Ken Pasterak, LRS, PG | Project Manager Environmental Specialist



west virginia department of environmental protection

Division of Land Restoration  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304

Harold D. Ward, Cabinet Secretary  
dep.wv.gov

February 6, 2023

Kenneth Pasterak  
Atlas Technical Consultants  
6825 Reynolds Street  
Pittsburgh, PA 15238

Renewal - Licensed Remediation Specialist Certification

Dear Mr. Pasterak:

Congratulations! We are pleased to inform you that you have filed your renewal application in accordance with appropriate time frames along with evidence of continuing education in the environmental remediation field. You have completed in a timely manner all of the license renewal requirements.

Please find your Licensed Remediation Specialist Renewed License Certificate enclosed and you may continue to practice as a licensed remediation specialist.

Sincerely,

  
Robert Rice  
Director

Enclosure: LRS License Renewal Certificate  
cc: LRS file: Registration Number 243

Promoting a healthy environ



**West Virginia**  
Department of  
**Environmental Protection**

*PASTERAK, KENNETH*  
Licensed Remediation Specialist

Registration Number: 243

  
Director, Division of Land Restoration

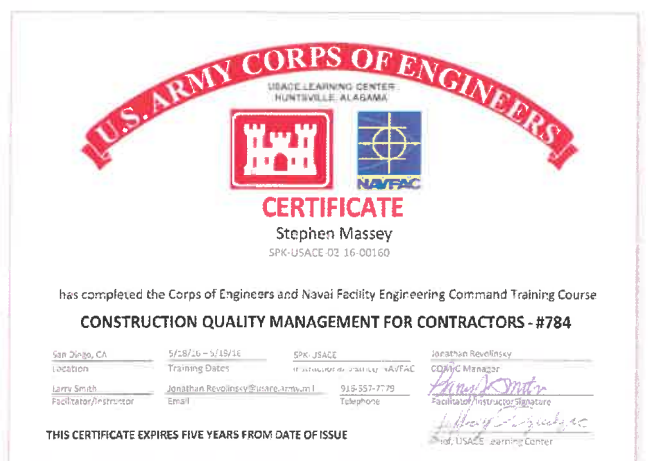
04-01-2023 - 03-31-2025  
Date Issued - Date Expires

## Scott McCready, LEEP AP, PG | Program Manager

**Scott McCready**

<b>LPG Number:</b> 741	<b>Company:</b> ATC Group Services, LLC
<b>Date Licensed:</b> 12/11/1987	<b>Address:</b> 8100 Snowville Road Brecksville OH 44141
<b>License Expires:</b> 12/31/2025	<b>Phone:</b> 440-262-1292
<b>License Status:</b> Current	<b>Email Address:</b> scott.mccready@atcgs.com
<b>Specialty:</b> Environmental Geology, Hydrogeology, Remediation	<b>Web Address:</b> www.atcgroupservices.com

## Stephen Massey, CQM | QC Manager



# APPENDIX



## D. OFFICE CERTIFICATIONS



# State of West Virginia



## Certificate

*I, Mac Warner, Secretary of State,  
of the State of West Virginia, hereby certify that*

ATLAS TECHNICAL CONSULTANTS, LLC

has filed the appropriate registration documents in my office according to the provisions of the West Virginia Code and hereby declare the organization listed above as duly registered with the Secretary of State's Office.

*Given under my hand and  
the Great Seal of West Virginia  
on this day of  
December 02, 2021*



*Mac Warner*

*Secretary of State*



Scott A. Adkins, Acting Commissioner

January 12, 2023

Account # 52663-0

Atlas Technical Consultants, LLC  
5750 Johnson St Ste 400  
Lafayette, LA 70503

Dear Employer:

Information provided by you shows that you have acquired the entire organization, trade or business or substantially all the assets from ATC Group Services LLC, dba Atlas Technical account 94028-3 as of January 1, 2022. The contribution and benefit experience records of the predecessor employer will be combined with those of your account. This is in accordance with the Unemployment Compensation Act, Article 5, Section 10- b

Reports should be filed covering the combined operations under account number 0000526630. The contribution rate for the year 2023 is 8.5%.

Attached please find your certificate of registration with this Division.

Effective January 1, 2016, Workforce West Virginia will no longer be mailing quarterly wage and contribution reports. You can file online and pay by ACH debit at [www.workforcewv.org](http://www.workforcewv.org). If you do not have access to the internet or are otherwise unable, you will need to fill out the enclosed waiver to be eligible to continue to receive the quarterly mailing.

In accordance with provision of the Commissioner's Regulations, Regulation 96 CSR 2, an employer who desires to dispute a decision or action by the Commissioner, or designee, is required to file a complete and timely request for reconsideration; otherwise, the Bureau's decision or action becomes final after thirty (30) days receipt of this decision.

A request for reconsideration shall be filed within thirty (30) days of the employer's receipt of the disputed decision, or in absence of such a receipt, within sixty (60) days of the date of the Commissioner, or designee, making such disputed decision.

The request for reconsideration shall be filed with the Commissioner, Attention: Glen J. Hughes, Director of Unemployment Compensation (5101), 1900 Kanawha Blvd E, Building 3 Room 300. Charleston, West Virginia 25305.

If you have any questions, you can contact me at (304) 558-2677, direct dial (304)352-3777, by fax at (304) 558-1324, or email [LaShawna.G.Johnson@wv.gov](mailto:LaShawna.G.Johnson@wv.gov).

Sincerely,

LaShawna Johnson  
Employment Program Specialist  
Status Determination Unit

Unemployment Compensation Division  
Contribution Accounting

1900 Kanawha Blvd. East \* Building 3 Suite 300 \* Charleston, WV 25305

An agency of the Department of Commerce

*An equal opportunity employer/program. Auxiliary aids and services are available upon request to individuals with disabilities.*

[www.workforcewv.org](http://www.workforcewv.org)

Workforce West Virginia AmericanJobCenter



# CONTRACTOR LICENSE

AUTHORIZED BY THE  
West Virginia Contractor  
Licensing Board

NUMBER: **WV057368**

CLASSIFICATION:  
SPECIALTY  
ENVIRONMENTAL/HAZARDOUS WASTE

ATC GROUP SERVICES LLC  
DBA ATLAS TECHNICAL  
5750 JOHNSTON ST STE 400  
LAFAYETTE, LA 70503

DATE ISSUED

JULY 12, 2024

EXPIRATION DATE

JULY 12, 2025

Authorized Signature

Chait, West Virginia Contractor  
Licensing Board



A copy of this license must be readily available for inspection by the Board on every job site where contracting work is being performed. This license number must appear in all advertisements, on all bid submissions, and on all fully executed and binding contracts. This license is non-transferable. This license is being issued under the provisions of West Virginia Code, Chapter 30, Article 42.

Search: Details

<b>Legal Name:</b>	ATC GROUP SERVICES, LLC
<b>WV Company COA:</b>	COA Number: C01371
	COA Status: Active
	COA Issue Date: 02/13/2003
	COA Expiration Date: 12/31/2025
<b>Primary Address of Record:</b>	5750 JOHNSTON STREET SUITE 400 LAFAYETTE, LA 70503
<b>Engineer In Responsible Charge:</b>	CHAD JOHN HARRISON
	PE License Number: 023116
	PE License Status: Active
	PE License Expiration: 12/31/2024

Search: Details

<b>Legal Name:</b>	ATLAS TECHNICAL CONSULTANTS LLC
<b>WV Company COA:</b>	COA Number: C06508
	COA Status: Active
	COA Issue Date: 06/28/2021
	COA Expiration Date: 12/31/2025
<b>Primary Address of Record:</b>	13215 BEE CAVE PKWY, BLDG B SUITE 230 AUSTIN, TX 78738
<b>Engineer In Responsible Charge:</b>	BENJAMIN T. STAUD
	PE License Number: 020372
	PE License Status: Active
	PE License Expiration: 12/31/2024

# State of West Virginia



## Certificate

*I, Mac Warner, Secretary of State of the State of West Virginia, hereby certify that*

**360 CONSULTING USA LLC**

**Control number: 9B8DH**

a limited liability company formed under the laws of Nevada

has filed its "Application for Certificate of Authority" in my office according to the provisions of West Virginia Code §31B-10-1002. I hereby declare the organization to be registered as a foreign limited liability company from its effective date of April 29, 2024 until the expiration of the term or dissolution of the company.

Therefore, I hereby issue this

### **CERTIFICATE OF AUTHORITY OF A FOREIGN LIMITED LIABILITY COMPANY**

to the limited liability company authorizing it to transact business in West Virginia



*Given under my hand and the  
Great Seal of the State of  
West Virginia on this day of  
April 29, 2024*

*Mac Warner*

*Secretary of State*  
578822

UNITED STATES OF AMERICA  
 STATE OF OHIO  
 OFFICE OF THE SECRETARY OF STATE

*I, Frank LaRose, do hereby certify that I am the duly elected, qualified and present acting Secretary of State for the State of Ohio, and as such have custody of the records of Ohio and Foreign business entities; that said records show AURORA RESEARCH ASSOCIATES, LLC, an Ohio Limited Liability Company, Registration Number 2058515, was organized in the State of Ohio on October 31, 2011, is currently in FULL FORCE AND EFFECT upon the records of this office.*



*Witness my hand and the seal of the Secretary of State at Columbus, Ohio this 17th day of October, A.D. 2024.*

*Frank LaRose*

Ohio Secretary of State

Validation Number: 202429102584

# State of West Virginia



## Certificate

*I, Mac Warner, Secretary of State of the State of West Virginia, hereby certify that*

**AURORA RESEARCH ASSOCIATES, LLC**

was duly authorized under the laws of this state to transact business in West Virginia as a foreign limited liability company on June 14, 2013.

The company is filed as an at-will company, for an indefinite period.

I further certify that the company has not been revoked or administratively dissolved by the State of West Virginia nor has the West Virginia Secretary of State issued a Certificate of Cancellation or Termination to the company.

Accordingly, I hereby issue this Certificate of Authorization

### CERTIFICATE OF AUTHORIZATION

Validation ID:1WV2G\_SDSC8



*Given under my hand and the Great Seal of the State of West Virginia on this day of*

*November 04, 2024*

*Mac Warner*

*Secretary of State*

Notice: A certificate issued electronically from the West Virginia Secretary of State's Web site is fully and immediately valid and effective. However, as an option, the issuance and validity of a certificate obtained electronically may be established by visiting the Certificate Validation Page of the Secretary of State's Web site, <https://apps.wv.gov/sos/businessentitysearch/validate.aspx> entering the validation ID displayed on the certificate, and following the instructions displayed. Confirming the issuance of a certificate is merely optional and is not necessary to the valid and effective issuance of a certificate.