



VOLUME I

TECHNICAL PROPOSAL

WEST VIRGINIA DEPARTMENT
OF ENVIRONMENTAL PROTECTION
DEP OOG - SUPPLEMENTAL
QUALITY ASSURANCE

RFP NO. CRFP 0313 DEP2500000002

SEPTEMBER 11, 2024

ORIGINAL

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WV PURCHASING
DIVISION

TECHNICAL PROPOSAL

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OOG - SUPPLEMENTAL QUALITY ASSURANCE

RFP NO. CRFP 0313 DEP2500000002

SEPTEMBER 11, 2024



Atlas Technical Consultants LLC
Successor in interest to ATC Group Services LLC
125 Granville Square
Morgantown, West Virginia 26501
304.533.0367

A handwritten signature in blue ink, appearing to read "Jeff Rossi", with a stylized flourish at the end.

Jeff Rossi, Contract Manager
jeff.rossi@oneatlas.com

September 11, 2024

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 - Supplemental Quality Assurance
Solicitation No.: CRFP 0313 DEP2500000002

Dear Mr. Hager and Selection Committee Members,

The State of West Virginia is committed to permanently plugging abandoned oil and natural gas wells on a priority basis using State and Bipartisan Infrastructure Law (BIL) funds directed at wells that pose threats to human health, safety, the environment, or future mineral development. The BIL funding will enable the State to plug and reclaim an unprecedented number of such wells and well sites through fiscal year 2030. To ensure adherence to the terms of the grant and the most appropriate use of funds, a supplemental quality assurance (SQA) contract is necessary. Atlas Technical Consultants LLC (Atlas), in partnership with 360 Consulting USA LLC (360), understands the State's objective of assuring compliance with U.S. Department of Interior (DOI) guidelines and the important role the SQA officer serves for compliance assurance throughout the project life cycle. The Atlas/360 team offers a demonstrated record of service performance throughout the entire project life cycle successfully delivering quality services nationwide.

PROVEN EXPERTISE. The Atlas/360 team is the ideal partner to achieve your goals while ensuring compliance with State and DOI 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 orphaned well programs in Arizona and California.

DEEP RESOURCES. The Atlas/360 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 Supplemental QA services, deploying multiple officers as needed to ensure 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 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 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 team brings to this project.

Respectfully submitted,



Jeff Rossi
Contract Manager
Jeff.Rossi@oneatlas.com | 304.533.0367





[The] Investing in America agenda is enabling us to confront long-standing environmental injustices by making a historic investment to plug orphaned wells throughout the country. These investments are good for our climate [and] for the health of our communities... [enabling us] to clean up these toxic sites, reduce methane emissions and safeguard our environment.

*- Deb Haaland
Secretary, U.S. Department
of the Interior*

What's Inside

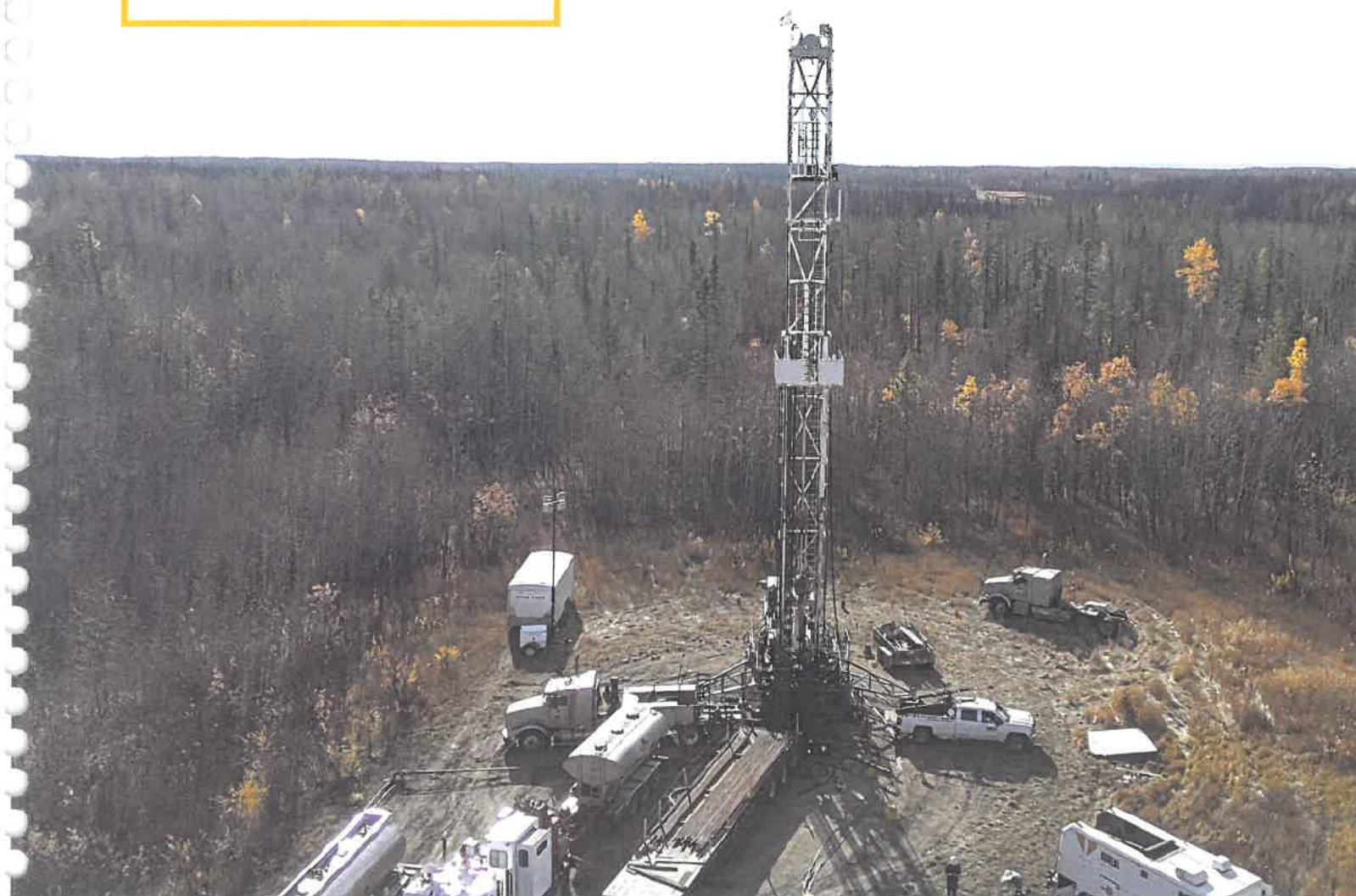
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 - E Documentation from Previous Projects - 360
 - F Documentation from Previous Projects - Well Done



Alignment with the RFP's Evaluation Criteria

RFP SECTION 4.2: PROJECT GOALS AND MANDATORY REQUIREMENTS

- 4.2.1 Goals and Objectives **pages 3-11**
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RFP SECTION 4.3: QUALIFICATIONS AND EXPERIENCE

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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 on State and DOI-compliant service delivery is unwavering. 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. This synergy ensures that our clients receive top-tier service tailored to both local and national standards.

STRENGTHS OF THE ATLAS TEAM

- ✓ National Program Leaders
- ✓ National Leaders in Well Site Management and Site Reclamation under the Infrastructure Investment and Jobs Act (IIJA)/BIL
- ✓ Consistently available and proactive in addressing and resolving issues as they arise by keeping open lines of communication with Agency representatives and the team.



EXPERIENCE

Well Site Management Experience				Assessment and Reclamation Experience			
ATLAS		360		ATLAS		360	
176 WELLS	3 JURISDICTIONS	5,700+ WELLS	10 JURISDICTIONS	10,000+ SITES	50 JURISDICTIONS	10,000+ SITES	4 JURISDICTIONS

+ A VALUABLE CONSIDERATION: Incorporating the **Well Done Well Intel Platform GIS Database** into the project scope would provide an efficient client interface for tracking progress at all well locations under this contract. The database would streamline monitoring and management by consolidating key data such as plans, daily reports, meetings, and communications. The true value of this platform increases and additional efficiencies can be realized if the Atlas/Well Done team is selected for both the Methane Emissions Quantification work and this contract. Pre-loading wells into the Well Intel database would reduce duplication of efforts, enhance cross-program data accessibility, and ultimately lower overall project costs. This integrated approach would not only improve operational efficiency but also support more informed decision-making across both programs. **An example of a checklist designed to streamline the data acquisition process can be found in Appendix F.**



STATE AND FEDERAL PROGRAM DELIVERY

LEADING

19

STATE AND FEDERAL
PETROLEUM PROGRAMS

WHAT THIS MEANS TO YOU: Our successful delivery of programs for oil and gas well and well site closure programs including petroleum-related programs in multiple jurisdictions means we know how to navigate complex requirements and can anticipate issues before they arise, thus maintaining critical budgets and schedules. Moreover, our 60 year history of delivering work successfully means we understand how to streamline project delivery with no learning curve.

PROVEN TEAM

The Atlas/360 Team will achieve this contract's scheduling and efficiency objectives by working closely with the Agency and contractors performing the work at each well site. The PM will coordinate the application of appropriate specialized personnel based on the phase of the project requiring inspection and monitoring (i.e., pre-plugging, plugging, post-plugging). The Atlas/360 Team will have specialized personnel available for work being performed at multiple locations throughout the project life cycle.

BEN STAUD, PE Project Manager

West Virginia-based Project Manager with 23 years of experience in environmental remediation and civil engineering. His expertise includes gas field operations across West Virginia and Pennsylvania.

SCOTT MCCREADY, LEED AP, PG Program Manager

A Supplemental QA compliance project corporate resource with 42 years of experience in the environmental and engineering consulting field with specializations in regulatory compliance assurance, assessment and remediation.

JEFF ROSSI Contract Manager

Contract Manager with environmental consulting expertise in the client management cycle of activities from contracting through budgeting and invoicing.



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.



SABRINA MOORE, P.ENG QA Officer

She has overseen operations in remote and environmentally sensitive areas and built a team of project coordinators and administrators, crucial for this project regarding management, document control, and cost management.



KEN PASTERAK, LRS, PG (WV REGION) Technical Advisor/QA Officer

Ken has significant experience designing and delivering site reclamation, restoration and remediation solutions. He has prepared and implemented US EPA-conforming Quality Assurance Project Plans for a wide range of sites to ensure data and construction quality objectives are met.

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.



PLUGGING AND
ABANDONMENT
COMPLIANCE



WOB

CULTURAL
RESOURCES
COMPLIANCE



Thornton Acoustics & Vibrations
CONSULTING ENGINEERS

VOSB

NOISE AND ACOUSTICAL
COMPLIANCE



CLIENT COMMUNICATIONS AND REPORTING
INTERFACE DATABASE

WOB COMMITMENT

Atlas 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.



COMMITMENT TO QUALITY

Our team is dedicated to delivering top-quality, State and DOI-compliant well and well site closure services. We take pride in doing the job right the first time and never cutting corners. Our commitment to excellence ensures that every project meets the highest standards of safety, environmental protection, and regulatory compliance. In order to accomplish our quality goals a Quality Assurance (QA) and Quality Control (QC) approach is tailored to meet project requirements. Our team employs these QA/QC practices, processes, and techniques to establish objectives prior to performing work, followed by monitoring and verification of the quality of products, materials, equipment, and deliverables at various stages of the project life cycle.

2 | PROJECT GOALS AND OBJECTIVES (4.2)

As leading nationwide providers of environmental and engineering services, the Atlas/360 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.

SUPPORTING YOUR MISSION

The State of West Virginia's goal to safely plug 250 orphaned wells in compliance with State and Federal requirements over the one year life cycle of the project is supported by the most experienced team.

The Atlas team is dedicated to:

- ✓ Support simultaneous P&As at multiple well locations.
- ✓ Support State and Federal compliance goals with multiple SQA officers as needed to cover each well location.
- ✓ Assure each well location is monitored for compliance during each phase of the project (Pre-Plugging site preparations, Plugging & Abandonment and Post-Plugging site restoration).
- ✓ Providing the quality management you need to promote safety and compliance with State and Federal requirements.



MANAGEMENT APPROACH

A scientifically based approach to this project offers the greatest potential risk reduction per dollar spent and maximizes the return on this critical investment. To accomplish this objective, the Atlas/360 Team consists of in-house personnel and other service providers necessary to support the program from planning through execution. The Atlas/360 Team composition and experience is tailored to facilitate project management, streamline work reviews and work implementation, and cost-effectively complete all project tasks.

Program Health and Safety Plan, Job Hazard Analysis, Emergency Response Plan

The Atlas/360 Team develops a comprehensive, site-specific Health and Safety Plan (HSP) for every project before beginning fieldwork. The HSP is our primary mechanism to increase employee, environmental, and public safety at the project site. All individuals working under the contract are required to review and sign the HSP to acknowledge their understanding of the information contained within. The HSP is both site and task specific.

Quality Assurance/Quality Control

Quality Assurance (QA) and Quality Control (QC) refer to the practices, processes, and techniques used to establish objectives prior to performing work, followed by monitoring and verification of the quality of products, materials, equipment, and deliverables at various stages of the project life cycle. While QA addresses the systematic processes and procedures designed to ensure attainment of quality standards, the QC complement

identifies non-conformances so that appropriate corrective actions can be taken. For this project, Atlas will prepare a Quality Assurance Project Plan (QAPP) describing in comprehensive detail the practices and procedures and confirm conformance with requirements and technical standards through planning, implementation, confirmation, and documentation phases. The QAPP will describe and define details regarding required personnel qualifications and certifications, data quality objectives, sample design for environmental and engineering testing, data management, and reporting.

Safety Meetings

We conduct mandatory daily morning "tailgate" safety meetings with all crew members and subcontractors. The meetings include input from crew members who are encouraged to bring potential safety concerns to light and shared learning from current and past projects, as well as discussion of standard protocols such as safe driving, emergency procedures, evacuation areas, and various

other 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.



Communication and Reporting

The Atlas/360 team emphasizes clear and consistent communication. We take great pride in making ourselves available and being highly responsive in order to

solve problems and resolve issues as they arise. The key to our success on projects is maintaining open channels of communication with Agency representatives and the team. 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. These meetings are led by the Atlas and 360 Project Managers; additional participants may include other Atlas/360 team members, subcontractors, and subject matter experts as necessary to solicit input, provide feedback, and confirm corrective actions.

Examples of other routine communication and reporting tools include formal project schedule updates (baseline to actual), project accounting (spend relative to budget, percent complete, earned value).

Project management will include coordination of SQA site visits which will meet the minimum requirements of site visit documentation including the following:

- Maintaining a daily log.
- The date/time work is being performed.
- A list of all personnel on location for that day.
- A general description of work being performed.
- A detailed description of any problems or issues encountered (particularly those that necessitate authorized deviations from issued permits).
- Pictures that are date/time/location stamped to document work performance.

PROJECT MANAGEMENT



The Atlas/360 team will establish and maintain an appropriate, productive, and effective on-site presence (i.e. frequency and duration of site visits) throughout the duration of field activities through a well-coordinated approach to scheduling. Scheduling of site visits for our competent Supplemental Quality Assurance Officers (SQAOs) to observe and document will be coordinated with the Agency as packages of wells are identified for closure over the entire scope of project work to be executed by the SQA Officer. The Atlas/360 team will achieve

the scheduling and efficiency objectives for this contract by working closely with the Agency and contractors performing the work at each well site. The PM will coordinate the application of appropriate specialized personnel based on the phase of the project requiring inspection and monitoring (i.e., Pre-Plugging, Plugging, Post-Plugging). The Atlas/360 team plans to have specialized personnel available for work being performed at multiple locations throughout the life cycle of the project.



PROJECT APPROACH (4.2.1)

Based on a WVDEP well count, there are more than 4,000 orphaned wells in West Virginia and WVDEP's goal is to target 250 orphaned wells under this program. To support your goal, the Atlas/360 Team proposes a three-phased approach.

PHASE 1

PRE-PLUGGING QUALITY ASSURANCE PLAN (4.2.1.1)

The Atlas/360 team will prepare a Pre-Plugging Quality Assurance Plan in collaboration with the Agency and the plan will include the following critical elements:

- Determination of the status of site-construction and development.
- Confirmation that the site is prepared in accordance with the West Virginia Erosion and Sediment Control Field Manual – May 2012.
- Submittal of any Agency-generated forms or paperwork developed in association with oversight of pre-plugging activities.
- Assist the Agency as needed to field-verify compliance with Endangered Species Act (ESA) and National Historic Preservation Act (NHPA) requirements of

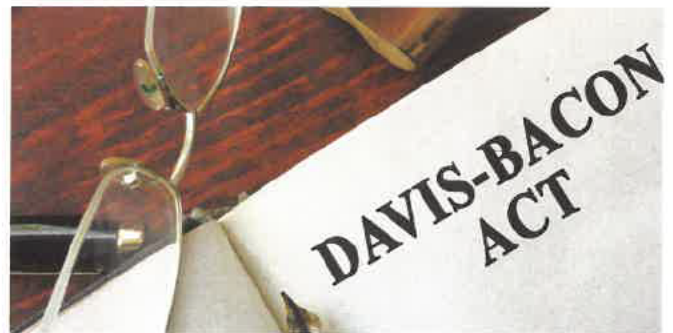
the State formula grant. The Atlas/360 team have included the necessary subject matter experts in our staffing plan to assist with ESA and NHPA verifications if needed to assure compliance with the State formula grant requirements. The Atlas/360 team understands that in accordance with the Orphaned Wells Program Office (OWPO) of the U.S. Department of the Interior compliance requirements State formula grants are subject to Section 7 of the Endangered Species Act (ESA) and Section 106 of the National Historic Preservation Act (NHPA).

QUALITY ASSURANCE PLAN GRANT REQUIREMENTS (4.2.1.5)

The Atlas/360 team will prepare a Grant Requirements Quality Assurance Plan in collaboration with the Agency and the plan will include the following critical elements. The plan will describe how we intend to provide on-site contractor oversight of the following key grant requirements:

PREVAILING WAGE COMPLIANCE

Atlas team members will monitor and provide daily documentation of working contractor and subcontractor staff while also performing regular contractor and subcontractor interviews for compliance verification with the Davis Bacon Act.



BUY AMERICA COMPLIANCE

During the monitoring and inspection, the compliance officer may also verify any qualifying raw materials brought onto location to ensure they comply with Build America, Buy America requirements.

PLUGGING QUALITY ASSURANCE PLAN (4.2.1.2)

The Atlas/360 team will prepare a Plugging Quality Assurance Plan in collaboration with the Agency and the plan will include the following critical elements:

- Well site activities
- Identification of any deviations from the approved permits
- Communication with the appropriate inspector to authorize or deny such deviations
- Specifically verifying that all raw materials brought on location (i.e., cement, stone, pipe) meet the necessary specifications
- Verification of cement and/or gel density and volume
- Recordation of cement plug depth and cure time
- Recordation of all pipe cut depths and detailed notes concerning the quantity and size of pipe left in the hole
- The observation and recording of well depth, pipe size and footage pulled vs. left in hole
- Verification of cement type, density, and amounts used for plugs, tagged depths
- Verification of gel density and amount used for spacers
- Confirmation that the installed monument is set correctly and meets all statutory rules and requirements
- Submittal of any Agency-generated forms or paperwork developed in association with the oversight of plugging activities

Sample reports for projects similar in scope are provided in Appendix E.

Other experienced-based elements to be included are as follows. The Atlas/360 team will provide competent SQAOs to observe and document well operations. SQAOs will meet the following minimum requirements:

- 10 years of downhole oil and gas experience including plug and abandonment operations
- Well blowout prevention training (IWCF, Wellsharp, Wild Well Control, SECUREWELL)
- H2S training (3 hours of course content required)
- First Aid training (American Heart Association, American Red Cross, or National Safety Council-NSC)
- OSHA 10-hr General Safety
- HazCom OR RIGPASS OR SAFELAND
- HazMat OR RIGPASS OR SAFELAND



Atlas' Think 12 safety mantra means that you must always be aware of what is 12 feet in front of you, 12 feet behind you, 12 feet to each side, 12 feet above you, and 12 feet below you. We are committed to safety and work to strengthen our culture around it. The health of our employees, the prevention of incidents, and the protection of the environment are mandates incorporated into every aspect of our company, surpassing all other considerations. Our clients expect it, and we require it of ourselves.

SUPPLEMENTAL QUALITY ASSURANCE OFFICER (SQAQ) (4.2.1.4)

The SQAQ will be on site for all P&A activities (plugging activities are assumed to average 2 full days) and will be responsible for:

- 1 Possessing a hard copy of WVDEP approved Well Abandonment Program on site and sharing the copy with all sub-contractors on site.
- 2 Documenting well operations in a Daily Report and submitting to WVDEP by 07:00 each day for previous days' operations. Daily reports to include the following:
 - Detailed hourly activity performed by all contractors on site
 - Confirmation of appropriate blow out prevention equipment being function tested, pressure tested and installed on the well prior to pulling or running tubing
 - Well depth
 - Tubing and casing sizes
 - Well equipment recovered
 - Well equipment left in the well
 - Cement type, density and volumes used for plugging
 - Tag depths and any required pressure tests of all cement plugs
 - Gel density and volume used for spacers
 - Confirmation of monument installation (documented with photos)
- 3 Submittal of all agency-related forms or documentation developed in association with the oversight of plugging activities.
- 4 Notifying WVDEP field inspectors, inspector supervisors and/or inspector specialists if variances to WVDEP approved Well Abandonment Program are required.
- 5 Collaborating with P&A contractors, 360 engineers and WVDEP field inspectors to provide recommendations on program optimization.
- 6 Documenting tail gate meetings with all contractors on location to identify all personnel on site, review work plans, identify hazards and implement hazard controls.
- 7 Cost tracking of all related sub-contractors performing work on the site.
- 8 Confirm and document prevailing wage requirements of all sub-contractors under the Davis Bacon Act.
- 9 Confirm and document all materials and manufactured products on site meet Build America Buy America criteria.



Sample reports for projects similar in scope are provided in Appendix E.

POST-PLUGGING SITE RECLAMATION QUALITY ASSURANCE PLAN (4.2.1.3)

The Atlas/360 team will prepare a Post-Plugging Site Reclamation Quality Assurance Plan in collaboration with the Agency and the plan will include the following critical elements:

- Verification of reclamation material and placement, and ensuring that reclamation meets permit standards prior to inspector validation.
- Documentation of materials (i.e., seed, lime, fertilizer, mulch) used for revegetation.
- Removal of all erosion and sediment controls,
- Re-grading and re-contouring of site location in accordance with the West Virginia Erosion and Sediment Control Field Manual – May 2012.
- Submittal of any Agency-generated forms or paperwork developed in association with the oversight of post-plugging activities.



COMPREHENSIVE DATABASE AND DATA MANAGEMENT

The Atlas/360 Team will work with WVDEP on integration of project information with the WVDEP database. Our team offers experience with comprehensive electronic databases that could help WVDEP achieve its goals for a database to better handle data collection and analysis, streamline operations and processes, and adhere to requirements in state and federal law.

➤ **A VALUABLE CONSIDERATION:** Incorporating the **Well Done Well Intel Platform GIS Database**

into the project scope would provide an efficient client interface for tracking progress at all well locations under this contract. The database would streamline monitoring and management by consolidating key data such as plans, daily reports, meetings, and communications. The true value of this platform increases and additional efficiencies can be realized if the Atlas/Well Done team is selected for both the Methane Emissions Quantification work and this contract. Pre-loading wells into the Well Intel database would reduce duplication of efforts, enhance cross-program data accessibility, and ultimately lower overall project costs. This integrated approach would not only improve operational efficiency but also support more informed decision-making across both programs. **An example of a checklist designed to streamline the data acquisition process can be found in Appendix F.**





MANDATORY PROJECT REQUIREMENTS (4.2.2)

The Atlas/360 team respects and appreciates the mandatory requirements identified by the Agency. As described below, SQAOs will implement and exceed these requirements on a routine basis throughout this project's life cycle.

	Mandatory Project Requirements	Exceeding Mandatory Requirements
 <p>Personal Safety for SQAOs (4.2.2.1)</p>	<p>SQAQ will be provided with:</p> <p>The appropriate personal protective equipment including the following which will also be called out in our Program-Specific HSP:</p> <ul style="list-style-type: none"> ▶ A handheld gas detector capable of detecting methane and H2S ▶ An OSHA compliant hard hat ▶ Steel-toed safety boots 	<p>SQAQs will also be provided with:</p> <ul style="list-style-type: none"> ▶ A handheld gas detector capable of detecting methane, H2S, carbon monoxide and oxygen (4-head monitor) ▶ OSHA compliant safety glasses ▶ Crush resistant hand protection ▶ Fire Retardant coveralls
 <p>Transportation (4.2.2.2)</p>	<p>The Atlas/360 team will provide our own transportation to SQAOs for travel to the job sites to perform contract services.</p>	<p>Commitment to Sustainability:</p> <ul style="list-style-type: none"> ▶ Under Atlas' company-wide office supply program, approximately 45% of supplies are considered "green." The company continually evaluates opportunities to increase "green" spending on office supplies with the goal of at least 60%. To execute on Atlas' hybrid or electric fleet goal, the company has ordered several new-generation, electric light-duty trucks and will continue to work with our suppliers to meet our 2030 targets. ▶ 360 consistently embeds environmental responsibility in its business operations. 360 commits to carbon footprint reduction, both for business operations and through collaborative solutions and innovation technology.
 <p>Communication (4.2.2.3)</p>	<p>The Atlas/360 team realizes that SQAOs will interface daily with Agency program staff, field inspectors, inspector supervisors, inspector specialists, environmental resources specialists and analysts, program managers and others as needed to meet the day-to-day project goals and requirements. We understand and fully appreciate the Agency's expectation to maintain professionalism at all times, be reasonably available for discussions on project progress and proactively contact the appropriate Agency representative when issues arise.</p>	<p>The Atlas/360 team emphasizes clear and consistent communication. We take great pride in making ourselves available and being highly responsive in order to solve problems and resolve issues as they arise. The key to our success on projects is maintaining open communication channels with Agency representatives and the team. 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. These meetings are led by the Atlas and 360 Project Managers; additional participants may include other Atlas/360 team members, subcontractors, and subject matter experts as necessary to solicit input, provide feedback, and confirm corrective actions.</p> <p>Examples of other routine communication and reporting tools include formal project schedule updates (baseline to actual), project accounting (spend relative to budget, percent complete, earned value).</p>

3 | QUALIFICATIONS AND EXPERIENCE (4.3)



PURPOSE-BUILT TEAM

The Atlas 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 250 technical and professional staff and 48 offices in the greater West Virginia region.** Our deep local and regional presence enables our team to quickly respond with the right resources to any need that may arise.

Teaming Partners



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.



360 Engineering & Environmental Consulting provides engineering, environmental, and site closure projects across the Western Hemisphere in a diverse range of sectors and industries. The 360 engineering team has executed thousands of well plugging and surface infrastructure decommissioning projects across North America and specializes in program design, operations management, and field execution for P&A and decommissioning. To date, 360 has abandoned 5,700+ wells, executed 29,000 environmental site closure activities, and assessed \$23+ billion in asset retirement obligations totaling over 150,000 wells across the US, Canada, and Argentina.



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.



Thornton Acoustics & Vibrations CONSULTING ENGINEERS

Thorton Acoustics & Vibrations (VOSB) provides highly focused

professional engineering Thornton is a firm of highly qualified and experienced mechanical engineers providing a unique team using cutting edge technology, a large inventory of state-of-the-art instruments, and tried and true engineering principles to solve complex problems efficiently with innovative solutions in a cost effective manner.

To maximize efficiency across Agency programs, the Atlas/360 team could perform the post-plugging methane measurements required by RFP NO. CRFP 0313 DEP2500000001. By integrating this scope of work into the existing contract for Supplemental QA, we can combine the return visits to each well site by the SQAQ, ensuring that site restoration and reclamation meet performance standards. This approach would streamline operations, optimize the use of time and resources, and result in significant budget savings for the Methane Emission Quantification contract.

TEAM ORGANIZATION



PROGRAM MANAGER

Scott McCready, LEED AP, PG*

CONTRACT MANAGER

Jeff Rossi

PROJECT MANAGER

Ben Staud, PE

SITE PREPARATION & RECLAMATION

TECHNICAL ADVISOR/QA OFFICER

Ken Pasterak, LRS, PG

SUPPLEMENTAL QA OFFICERS

Atlas will provide competent Supplemental Quality Assurance Officers (SQA) to observe and document **pre-plugging and post-plugging well site activities**. SQAOs will meet the following minimum requirements:

First Aid training (American Heart Association, American Red Cross, or National Safety Council-NSC)

OSHA 10-hr General Safety

HazCom OR RIGPASS OR SAFELAND

USACE trained

Stormwater/Steam Manual Proficient

**Registered Out of State*

PLUGGING & ABANDONMENT COMPLIANCE

TECHNICAL ADVISOR

Adam Derry, P.Eng* (360)

QA OFFICER

Sabrina Moore, P.Eng* (360)

SUPPLEMENTAL QA OFFICERS

360 will provide competent SQAOs to observe and document all well operations. SQAOs will meet the following minimum requirements:

10 years of downhole oil and gas experience including plug and abandonment operations

Well blowout prevention training (IWCF, Wellsharp, Wild Well Control, SECUREWELL)

H2S training (3 hours of course content required)

First Aid training (American Heart Association, American Red Cross, or National Safety Council-NSC)

OSHA 10-hr General Safety

HazCom OR RIGPASS OR SAFELAND



TECHNICAL RESOURCES

Available as requested by the Agency on an optional/as-needed basis. These services are not included in the unit price budget.

NOISE/ACOUSTICAL SPECIALIST

Thornton Acoustics and Vibrations (VOSB)

CULTURAL RESOURCES/ ARCHAEOLOGIST

Aurora (WBE)

AIR QUALITY SPECIALIST

Zac Grayson

WATER RESOURCES/ WETLANDS

SPECIALIST/BIOLOGIST/ ENDANGERED SPECIES

Kyle Helal (USACE cert)

Jim Kooser

PUBLIC COMMUNICATION OFFICER

Jeff Rossi

EMERGENCY RESPONSE/ H&S OFFICERS

Zac Grayson

Chuck Kisamore, CSP

POST-PLUGGING METHANE, MEASUREMENT, AND WELL INTEL DATABASE MANAGEMENT

Well Done Foundation

Key Personnel

The Atlas/360 team will fully engage with the Department's staff during the planning phase of the project and assure we are in alignment on the scope of the SQA plans for each phase of work. Ben Staud will provide the PM coordination necessary to assure communications are at the level necessary to assure plans are complete and the team is ready for project implementation. Ben will also assure that the level of SQA officer support is sufficient to meet the P&A schedule required by the Agency.

Ben Staud, PE Project Manager

Ben brings **23 years of regional experience** in environmental remediation, civil engineering, and gas field operations across West Virginia and Pennsylvania. Throughout his career, Ben has successfully managed a diverse array of projects, ranging from **oil and gas permitting to soil and groundwater remediation**, as well as stream restoration efforts. His deep expertise and **strong relationships with regulatory agencies** will be invaluable in navigating compliance challenges and ensuring the project's smooth progress.



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

Scott McCready, LEED AP, PG Program Manager

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 Department of Energy (DOE) requirements. Scott has **experience with oil and gas well site assessment, plugging, and restoration** in Ohio and has **extensive experience in various 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.

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 experience with the application of prevailing wage requirements on projects as well as purchased materials sourcing requirements. Jeff also 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.

Ken Pasterak, LRS, PG

QA Officer/Technical Advisor: Site Reclamation

Skilled in preparation and implementation of QAPPs conforming to US EPA Guidelines for Quality Assurance Project Plans (EPA QA/G-5)

With **30+ years of experience designing and delivering site reclamation, restoration, and remediation solutions**, Ken has **prepared and implemented US EPA-conforming QAPPs** for a wide range of sites to ensure data and construction quality objectives are met. A graduate of West Virginia University, his roles have included **quality assurance oversight for construction activities at a Superfund site** requiring documentation of material quantities and restoration operations specifications, and **preparation and implementation of QAPPs for West Virginia sites undergoing site investigation and/or remediation and restoration (including Lenox China) as the WV Licensed Remediation Specialist (LRS) of record**. Prior to joining Atlas, he supported brownfield assessment and cleanup efforts, was responsible for quality assurance for remediation efforts at CSX Transportation sites in West Virginia, and was employed by Eastern American Energy Corporation where he was responsible for various field wellhead and pipeline maintenance tasks in Barbour and Upshur Counties, West Virginia.

Adam Derry, P.Eng

Technical Advisor: P&A Compliance

Proven ability to supervise all well operations, communicate/collaborate with the PM, and serve as Technical Operations Chief

Adam brings 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**. Starting as a drilling rig floorhand, Adam 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**. He actively contributes to industry groups, including the Well Integrity and Abandonment Society, and **leads teams in large-scale well abandonment campaigns, consistently delivering projects below standard industry costs**. Adam is a Professional Engineer with Association of Professional Engineers and Geoscientists of Alberta (APEGA) and Professional Engineers of Ontario (PEO) and currently serves as Co-Chair of IRP-30 – Temporary Wellbore Suspensions on the Drilling and Completions Committee of Energy Safety Canada.

Sabrina Moore, P.Eng

QA Officer: P&A Compliance

Project managed hundreds of well abandonments, including winter-access only projects and non-routine remedial operations, often requiring timely government approvals

Sabrina brings extensive experience across all facets of closure, including **downhole abandonment, pipeline and facility decommissioning, and environmental site assessments**. Her holistic approach equips her with a versatile skill set applicable to various closure projects. Sabrina **specializes in both routine and non-routine well abandonments, having managed hundreds of such projects across North America**, including those requiring winter access and complex remedial operations with prompt government approvals. Her work with orphaned well groups has heightened her focus on project efficiency and cost accountability. Sabrina has overseen operations in both remote and environmentally sensitive areas and has built a team of adept project coordinators and administrators, crucial for document control and cost management on short-term remote projects. Her strong organizational and time management skills ensure that large abandonment programs are consistently completed on time and under budget. Sabrina is actively involved with industry groups like the Well Abandonment and Integrity Society and is a Professional Engineer in good standing with APEGA.



PROVEN EXPERIENCE (4.3.1.2)

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 is providing 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.



▶ **Well P&A Location in Bakersfield, CA**
Sign reads "No drilling here. We're plugging. The work at this site is to seal old hazardous oil wells, part of a statewide project to protect public health, safety, and the environment."

Thus far, the project has involved assessment, well plugging, and abandonment of 25 high-risk wells located in dense commercial and residential areas in the City of Bakersfield. The project has required extensive work with stakeholders and risk management, along with technical expertise in managing numerous downhole issues. The scope of work includes regulatory submissions to the state, issuance of detailed work plans, on-site HSE management, daily reporting, and logistics planning.

SUPPLEMENTAL QA OFFICERS

3

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

State and DOI guidelines-based program to provide full program management support to the Agency from pre-planning, stakeholder engagement, site assessment, through plugging, decommissioning, and site restoration.

HOW MET

The multidisciplinary Atlas team, which includes 360, has implemented a comprehensive program that features pre-planning sessions with the Agency and development of project QA plans for all aspects of the work. The execution of detailed plans and QA/QC procedures has fostered routine and productive communication among the Agency, PM, and field project staff. This collaborative approach has led to the efficient use of time and resources, ultimately reducing program implementation costs and enhancing overall project success.

CONOCOPhillips LOWER 48 RISK MANAGEMENT AND REMEDIATION Southern California

Since the early 2000s, Atlas has been the primary supplier for the ConocoPhillips Lower 48 (L48) Risk Management and Remediation (RM&R) group, tasked with investigating and remediating historical oil well sites on the West Coast. This voluntary remedial program encompasses a diverse range of sites, including residential, commercial, public, and agricultural areas throughout Southern California. Each site has posed unique challenges that Atlas has successfully navigated, thanks to our extensive experience. Below are two highlighted projects from this contract that are highly relevant to the anticipated work under the WVDEP procurement.

KEY CHALLENGES AND ISSUES

- ▶ Accurately locating historical features such as sumps, tanks, lease roads, and pipelines. Many of these features are no longer visible and historical aerial imagery must be used to overlay onto present-day imagery to ensure investigation activities are performed in the correct locations. Accurate desktop review helps ensure costs savings during field investigation activities.
- ▶ Conducting positive stakeholder interactions during site investigation and remediation, especially on residential and commercial/industrial sites, being extra sensitive to nuisance odor avoidance and mitigation.
- ▶ Adequate vertical and lateral delineation of oilfield features so that cost estimation is accurate.
- ▶ Proper characterization of waste streams to comply with local, regional, and state regulations.
- ▶ Coordinating with lead agency for site inspections and investigation/verification sampling.
- ▶ Securing permits and compliance with requirements (e.g., grading plans, air monitoring, haul permits, land use, waste profiles, wildlife, endangered species).

RESIDENTIAL: REMBUSCH LEASE



▶ Remediating wells in a residential community

Located in an upscale residential neighborhood in Santa Maria, the Rembusch oil lease historically contained four wells that produced oil between the 1930s and 1960s. Atlas conducted thorough research of historical records, reports, and aerial photographs to identify the oilfield features beneath the neighborhood. Coordination with the City, CalGEM, Santa Barbara County Environmental Health Services (EHS), local schools, and other County permitting agencies was crucial.

SUPPLEMENTAL QA OFFICERS

1

PROJECT MANAGER

Alex Harting, PE
Alex.Harting@oneatlas.com

TYPE OF PROJECT

Investigation and remediation of historical oil well sites

CLIENT REFERENCE

Bill Borgh
ConocoPhillips RM&R
Program Manager
832.486.2701
bill.borgh@conocophillips.com

GOAL

Complete desktop review; locate historical features, such as sumps, tanks, lease roads, and pipelines; delineate extent of contamination; characterize impacted soils; assure compliance with all requirements (e.g., grading plans, air monitoring, haul permits, land use, waste profiles, wildlife, endangered species)

HOW MET

Successfully completed assessments, implemented remediation plans, and completed remediation, off-site disposal, and site restoration

RELEVANCE TO WVDEP

- Site investigation
- Site and/or lease restoration plan
- Orphaned well plugging and abandonment for state agency
- Facilities decommissioning and site and/or lease remediation

CONOCOPHILLIPS LOWER 48 RISK MANAGEMENT AND REMEDIATION (CONT.)

The work presented challenges typical of residential neighborhoods, such as managing construction traffic, noise, odors, dust, and vibrations. To address residents' concerns and minimize inconvenience, Atlas engaged in proactive door-to-door outreach weeks before the project began. Subcontractors and truck drivers were trained to drive slowly and interact politely with neighbors, while working hours were strictly controlled. Noise, dust, and odors were carefully mitigated and monitored using County-approved suppression sprays and real-time data. Vibration sensors were also strategically placed and monitored in real-time.

Atlas successfully investigated and remediated all of the oilfield features within the Rembusch Lease and is now seeking full lease closure from the County.

Atlas conducted the following work associated with the Rembusch Lease:

INVESTIGATION OF

- ▶ 75 residential properties
- ▶ 6 public streets, including two cul-de-sacs.

DIRECTLY MANAGED

- ▶ Demolition of 17 residential structures to allow the remedial excavation of sumps, tank battery impacts, and lease roads
 - ▶ Location and investigation of 4 oil wells
 - ▶ Re-abandonment of 1 oil well
-

PUBLIC/RECREATIONAL: KITTIE BAILARD

The Kittie Bailard oil seep remediation and well abandonment project presented several challenges, including its location adjacent to a beach in the California Coastal Zone, within a nature preserve and public park. This high-profile site near a seal rookery, popular beach access points, hiking trails, and a railroad required extensive negotiations and multiple permits, including one from the California Coastal Commission. A narrow dirt road provided the only access to the site.

Atlas developed the well abandonment plan with input from state, county, and local agencies, and performed special assessments to ensure the work would not harm sensitive biological or cultural resources. During the well abandonment, the work footprint was expanded and trails were temporarily closed to the public to safely handle explosive charges used in well casing perforation.

Atlas excavated and disposed of approximately 500 cubic yards of hydrocarbon-impacted soil, with Native American cultural monitors present during the excavation. The site was backfilled with clean fill soil and replanted with native grasses. Throughout the project, Atlas managed interactions among the client, subcontractors, the City, CalGEM, and various stakeholders, ensuring that public access was controlled and that inquiries from the public and media were handled according to client protocols.



▶ Successful P&A of the Kittie Bailard oil well

ORPHANED WELL SITE ABANDONMENT, REMEDIATION, AND RESTORATION

Statewide Arizona



► Orphan well being GPS located and screened for methane emissions

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 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.

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.

Key challenges and issues

- Difficulty identifying and contacting well owners. Initial outreach resulted in a 70% success rate.
- Physically locating each well in unpopulated and undeveloped areas.
- Atlas used 4-wheel drive vehicles equipped with GPS units, a satellite phone, and emergency equipment to locate wells.
- Due to vehicle use limitations, the field team often had to hike over a mile through rugged terrain to reach the well locations. They relied on handheld GPS units to navigate and track their way to these remote sites on foot.
- Some wells had been cut flush with or below the ground surface. To locate these wells, the field team used metal detectors, allowing them to identify the buried wellheads despite their lack of visibility.

SUPPLEMENTAL QA OFFICERS

2

PROJECT MANAGER

Keli Vandergrift
Keli.Vandegrift@oneatlas.com

TYPE OF PROJECT

Orphaned well program services

CLIENT REFERENCE

Wendy Flood
ADEQ
flood.wendy@azdeq.gov

GOAL

State and DOI guidelines-based program to provide full program management support to the Agency from pre-planning, stakeholder engagement, site assessment, through plugging, decommissioning, and site restoration

HOW MET

The Atlas team, which includes 360, has implemented a multifaceted program that includes pre-planning sessions with the Agency and development of QA plans for all aspects of the work. Implementation of detailed plans and QA/QC procedures has resulted in routine and productive communications among Agency, PM, and field project staff. Success has been demonstrated by efficient use of time and resources and has resulted in reduced program implementation costs.

RELEVANCE TO WVDEP

- Site investigation
- Site and/or lease restoration plan
- Orphaned well plugging and abandonment for state agency
- Facilities decommissioning and site and/or lease remediation

OIL AND GAS WELL CLOSURE AND SITE RESTORATION

Cuyahoga County, Ohio

Atlas conducted a Phase I ESA in accordance with ASTM 1527-13 and identified an abandoned oil and gas well and two domestic water wells on the property. Primary activities included:

Historical Research. Before site reconnaissance, Atlas researched historical documents included in the Phase I ESA report and additional records from the Ohio Department of Natural Resources Division of Oil and Gas.

Ownership Transfer and Permitting. Atlas facilitated the transfer of ownership of the oil and gas well to the new property owners and obtained the necessary permits, including a plugging plan, for well abandonment.

Well Abandonment. A specialized drilling contractor was mobilized to the site to perform the well abandonment. This involved advancing drilling equipment to a depth of 2,673 feet and sealing the well according to the approved permit and plugging plan.

Integrity Assurance. To ensure the well's integrity, Atlas implemented the use of a cast iron bridge plug, set 100 feet below the well's top. This precaution prevented gas bubbles from interfering with the installation of the 100-foot-thick surface plug, which was essential for maintaining a secure and reliable seal.

Product Line Removal. The product lines connected to the oil and gas well were located, drained, and removed. Impacted soil and contaminated water were properly disposed of, while steel product lines, wellhead, and tubing components were drained and sent for recycling.

Confirmation and Restoration. Successful well plugging was confirmed by an inspector from the local Division of Oil and Gas. Restoration was completed by regrading the area around the well and access route, followed by seeding with a mix of native grasses and mulching to promote environmental recovery.

PROJECT MANAGER

Scott McCready
Scott.McCready@oneatlas.com

TYPE OF PROJECT

Orphaned well P&A and well site restoration

CLIENT REFERENCE

Confidential client

GOAL

Provide full turn-key support to the client from pre-planning, site assessment, through plugging, decommissioning, and site restoration

HOW MET

Atlas implemented a multifaceted program that included pre-planning, well ownership transfer, development of a plugging plan, permitting, and development of a site HSP for all aspects of the work for Atlas and subcontractor personnel. Implementation of approved plans resulted in efficient use of time and resources and on-budget project completion.



► Regrading after successfully plugging the well

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

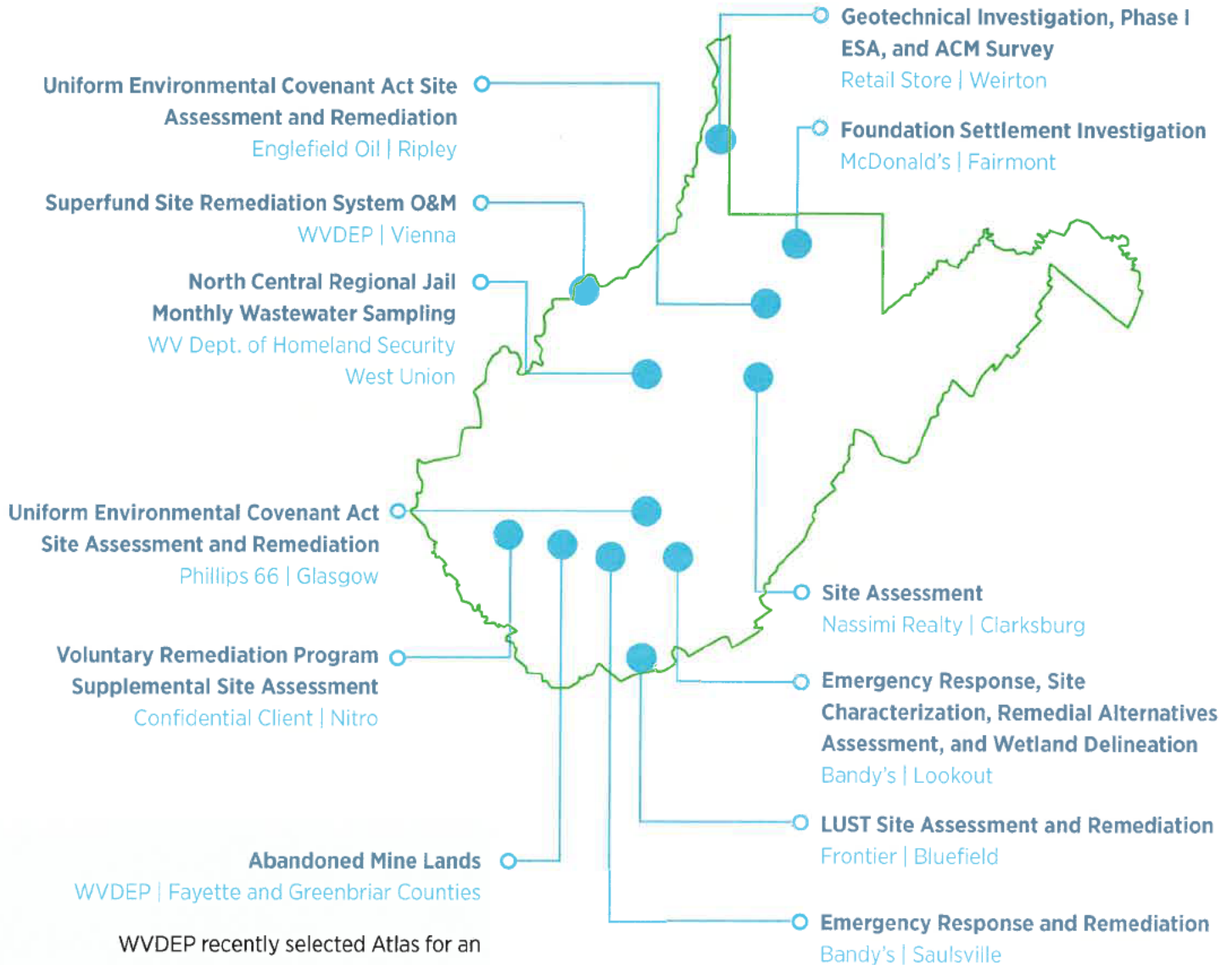
To plug and abandon 10 wells on behalf of Well Done Foundation

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 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 map below depicts a representative sampling of our work through the state.

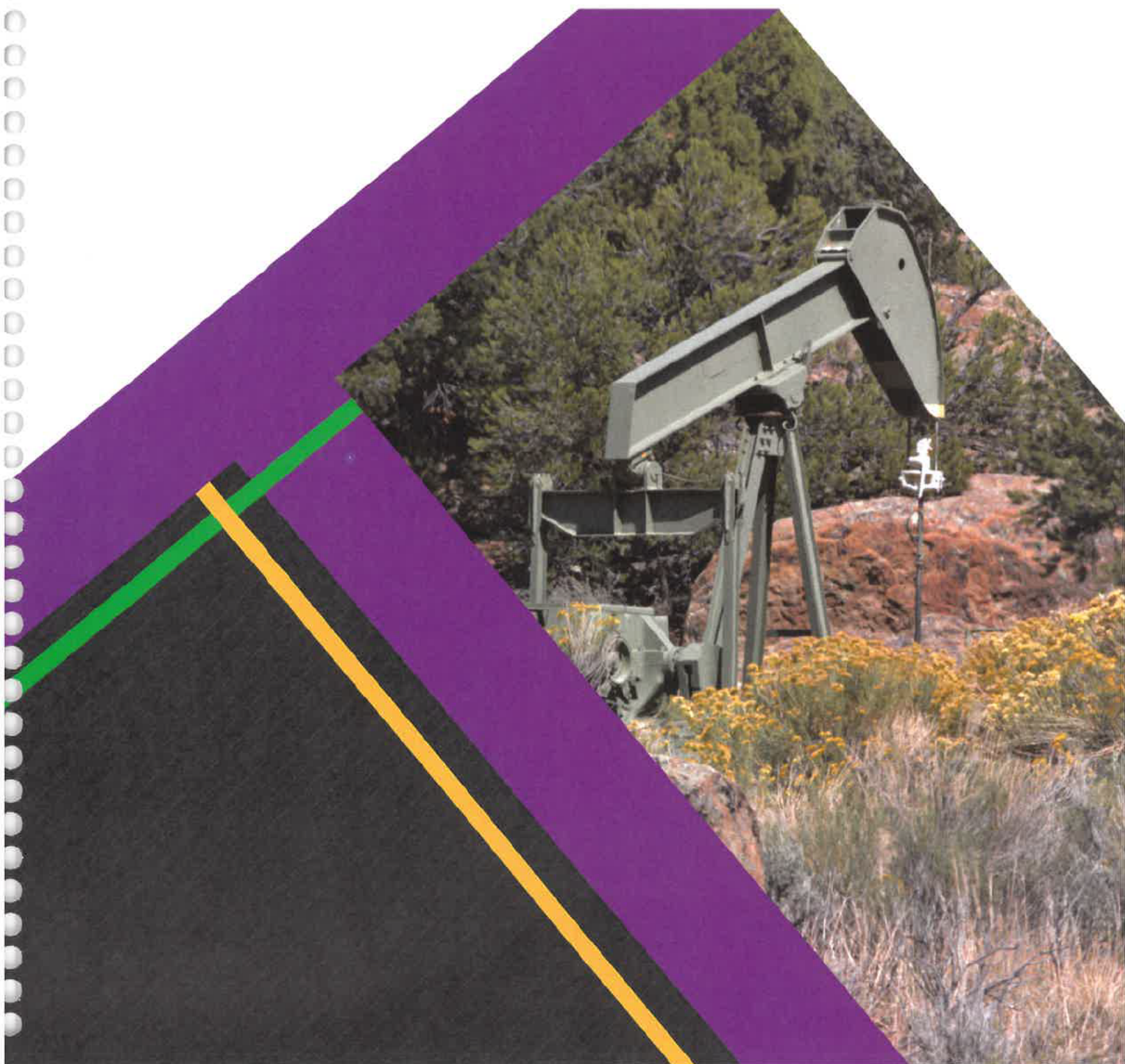


WVDEP recently selected Atlas for an AML reclamation and remediation management contract on 14 sites throughout southern West Virginia. **This award was the largest of eight competitive AML contracts issued by the WVDEP in 2023.**

APPENDIX



A. REQUIRED FORMS



ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: CRFP 25*02

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:

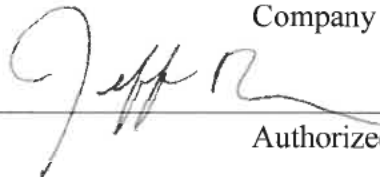
(Check the box next to each addendum received)

<input checked="" type="checkbox"/> Addendum No. 1	<input type="checkbox"/> Addendum No. 6
<input checked="" 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

09/10/2024

Date

NOTE: This addendum acknowledgment should be submitted with the bid to expedite document processing.

Revised 6/8/2012



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
Consulting

Proc Folder: 1476296

Doc Description: DEP OOG - Supplemental Quality Assurance

Reason for Modification:

Addendum #2 issued to publish agency responses to vendor submitted questions and extend bid close da..... See Page 2 for complete info

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2024-08-28	2024-09-11 13:30	CRFP 0313 DEP2500000002	3

BID RECEIVING LOCATION

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

VENDOR

Vendor Customer Code: 000000189555

Vendor Name : ATC Group Services, LLC dba Atlas Technical Consultants 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 09/10/2024

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

Reason for Modification:

Addendum #2 issued to publish agency responses to vendor submitted questions and extend bid close date until 9/11/2024 @ 1:30 PM

ADDITIONAL INFORMATION

The West Virginia Department of Administration, Purchasing Division (hereinafter referred to as the "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 (hereinafter referred to as the "Agency") to support compliance with applicable grant and contract terms on well plugging projects funded by Section 40601 of the Bipartisan Infrastructure Law. To ensure adherence to the terms of the grant and the most appropriate use of funds, a supplemental quality assurance ("SQA") contract is necessary per the 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
	Supplemental Quality Assurance Per Well	250.00000	EA		

Comm Code	Manufacturer	Specification	Model #
03151507			

Extended Description:

Supplemental Quality Assurance Per Well. Quantities are estimated and for bid purposes only.

SCHEDULE OF EVENTS

Line	Event	Event Date
------	-------	------------

SOLICITATION NUMBER: CRFP 0313 DEP2500000002

Addendum Number:

No.02

The purpose of this addendum is to modify the solicitation identified as ("Solicitation") to reflect the change(s) identified and described below.

Applicable Addendum Category:

- ☒ Modify bid opening date and time
- ☐ Modify specifications of product or service being sought
- ☒ Attachment of vendor questions and responses
- ☐ Attachment of pre-bid sign-in sheet
- ☐ Correction of error
- ☐ Other

Description of Modification to Solicitation:

Addendum issued to publish and distribute the attached documentation to the vendor community.

1. To publish agency responses to all vendor submitted questions
2. To extend bid opening date until 9/11/2024 @ 1:30 PM

Additional Documentation: Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

ATTACHMENT A

RFI: Questions from vendors for CRFP Supplemental Quality Assurance

Q.1. How many rigs will be operating at any given time, and in what regions?

A. The regional contracting mechanism used with the IJJA-Initial Grant is no longer being used. Instead, the Agency will focus on "community level projects" with an emphasis on wells in closer proximity. There may be many factors that impact when contract work will be performed, so it is impossible to predict activity overlap with any accuracy. It is the intention of the Agency to solicit bids for a 15-25 well package every 4-8 weeks throughout the state. Contractor rig schedule will play a large role in project start dates and how many rigs are running concurrently.

Q.2. Can a quality assurance officer cover multiple wells simultaneously?

A. Within the background of the project specifications, the RFP describes a generalized expectation of daily on-site presence at a location where contract work is occurring. Due to the close proximity of wells within a singular region, it is entirely possible that a supplemental quality assurance officer could maintain full coverage of multiple wells within that project area if the plugging vendor elected to deploy more than one rig to service that project. The RFP does not expressly prohibit the use of an individual officer providing oversight services to simultaneous well plugging contracts. If that is the vendor's expectation, the vendor will need to clearly describe in their plan how this officer will successfully meet the requirements of the RFP for multiple, simultaneous projects.

Q.3. What is the breakdown of wells per region?

A. The regional contracting mechanism used with the IJJA-Initial Grant is no longer being used. Well plugging projects will be targeted within small geographic areas containing 15-25 wells.

Q.4. Given the competing efforts on the MEQ proposal and this proposal and the upcoming Holiday immediately prior to the due date, would WVDEP consider providing a 3 week extension to the deadline.

A. DEP is willing to extend the deadline by one week, which provides vendors 9 business days beyond the due date for the co-pending MEQ proposal.

Q.5. Are you assuming that work would be conducted on the weekend or just during the workweek excluding holidays.

A. Pursuant to the standard terms and conditions attached to every well plugging contract, "[The] Contractor shall perform Contract work (i.e., site preparation and permitted well work) during the days of Monday through Friday. Work will not be conducted on weekends or state/national holidays except with Department approval or during emergency situations. A workday is defined as a maximum of ten (10) hours; however, additional hours may be worked with Department approval or during emergency situations."

Q.6. To facilitate efficient proposal development, are electronic signatures acceptable?

A. Yes, Electronic Signatures are Acceptable

Q.7. In regards to the cost proposal, is there a cost spreadsheet to fill out and submit or is a typed cost sheet including quantity, unit of measure, unit price, and total price suffice ?

A. There is a pricing sheet included in the RFP. DEP is requesting a lump-sum per well cost to provide all requested services. In that pricing sheet, DEP estimated 200 wells.

Q.8. During site preparation, does WVDEP require a Supplemental Quality Assurance Officer (SQAQO) on site for the entire duration of site prep operations?

A. Within the background of the project specifications, the RFP describes a generalized expectation of daily on-site presence. However, the vendor should describe the plan they will employ to determine that pre-plugging field activities are adequately monitored with the understanding that quality assurance oversight is a fundamentally field-based activity. The vendor's approach should include details on how much time will be dedicated to field observation. If the vendor plans to focus on critical phases, those should be identified in the vendor's plan.

Q.9. If not, what are the critical operations that WVDEP requires the SQAQO be onsite to witness?

A. The RFP solicitation identifies the critical components of pre-plugging field activities from DEP's perspective.

Q.10. During plugging operations, does WVDEP require the SQAQO onsite for the entire duration of the plugging operation?

A. Within the background of the project specifications, the RFP describes a generalized expectation of daily on-site presence. However, the vendor should describe the plan they will employ to determine that plugging-related field activities are adequately monitored with the understanding that quality assurance oversight is a fundamentally field-based activity. The vendor's approach should include details on how much time will be dedicated to field observation. If the vendor plans to focus on critical phases, those should be identified in the vendor's plan.

Q.11. If not, what are the critical operations that WVDEP requires the SQAQO be onsite to witness?

A. The RFP solicitation identifies the critical components of plugging-related field activities from DEP's perspective.

Q.12. During reclamation operations, does WVDEP require the SQAQ onsite for the entire duration of the reclamation operation?

A. Within the background of the project specifications, the RFP describes a generalized expectation of daily on-site presence. However, the vendor should describe the plan they will employ to determine that post-plugging field activities are adequately monitored with the understanding that quality assurance oversight is a fundamentally field-based activity. The vendor's approach should include details on how much time will be dedicated to field observation. If the vendor plans to focus on critical phases, those should be identified in the vendor's plan.

Q.13. If not, what are the critical operations that WVDEP requires the SQAQ be onsite to witness?

A. The RFP solicitation identifies the critical components of plugging-related field activities from DEP's perspective.

Q.14. How many plugging rigs does WVDEP project will be operating concurrently in this project?

A. There may be many factors that impact when contract work will be performed, so it is impossible to predict with any accuracy the number of simultaneous active projects. It is the intention of the Agency to solicit bids for a 15-25 well package every 4-8 weeks. Contractor rig schedule will play a large role in project start dates and how many rigs are running concurrently.

Q.15. How many plugging rigs were ran concurrently last year?

A. During the IJIA-Initial Grant performance period, weekly plugging rig counts dedicated to federal well plugging ranged between 1 and 16 per week, with an average of 8. It probably bears mentioning that the IJIA-Initial Grant may not serve as an analog for future well-plugging efforts. The short timeline associated with the regional contracts necessitated the use of several rigs within one region in order to meet contract deadlines. A more evenly distributed contractual scheme may be able to accomplish the same number of wells plugged per year without the intense activity in the last two months of the program.

Q.16. How many wells were plugged in this program last year?

A. 202 wells were plugged using the IJIA-Initial Grant funds through January 2024.

Q.17. Does WVDEP require all 35 pages of the RFP (including signature pages) returned with the proposal, or does WVDEP only require the signed pages- 1, 25, 26, & 35 be returned with the proposal documents?

A. All RFP Pages including the signature pages should be returned.

Q.18. Where does WVDEP prefer the signed contract pages (and RFP document) be attached in the Proposal (e.g. the cost proposal, technical proposal, or separate within the package)?

A. The signed contract pages should be in the Technical proposal.

Q.19. During field operations, what will be the work schedule? Would DEP expect or anticipate crews to work 7 days per week except for Holidays? If this scenario is expected or anticipated would the DEP expect crews to work (for example) a number of consecutive weeks and then take some time off until the work is done?

A. Pursuant to the standard terms and conditions attached to every well plugging contract, "[The] Contractor shall perform Contract work (i.e., site preparation and permitted well work) during the days of Monday through Friday. Work will not be conducted on weekends or state/national holidays except with Department approval or during emergency situations. A workday is defined as a maximum of ten (10) hours; however, additional hours may be worked with Department approval or during emergency situations."

Q.20. Would DEP expect or anticipate crews to work 5 days per week (normal work week Monday through Friday) and not weekend or holidays? If this scenario is expected or anticipated would the DEP expect crews to work this type of schedule until the work is done?

A. Pursuant to the standard terms and conditions attached to every well plugging contract, "[The] Contractor shall perform Contract work (i.e., site preparation and permitted well work) during the days of Monday through Friday. Work will not be conducted on weekends or state/national holidays except with Department approval or during emergency situations. A workday is defined as a maximum of ten (10) hours; however, additional hours may be worked with Department approval or during emergency situations."

Q.21. Is the agency open to negotiation of the contract terms given the broad indemnification and no limitation and waiver of consequential damages.

A. Your submitted proposal should note the terms that you wish to mark through and/or negotiate.



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
Consulting

Proc Folder: 1476296

Doc Description: DEP OOG - Supplemental Quality Assurance

Reason for Modification:

Addendum #1 issued to include notification that online responses to RFP's are prohibited. Please fol..... See Page 2 for complete info

Proc Type: Central Master Agreement

Date Issued

Solicitation Closes

Solicitation No

Version

2024-08-12

2024-09-04 13:30

CRFP 0313 DEP2500000002

2

BID RECEIVING LOCATION

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON WV 25305

JS

VENDOR

Vendor Customer Code: 000000189555

Vendor Name : ATC Group Services, LLC dba Atlas Technical Consultants 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 09/10/2024

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

Reason for Modification:

Addendum #1 issued to include notification that online responses to RFP's are prohibited. Please follow bid submission instructions located in the RFP Documents attached.

ADDITIONAL INFORMATION

The West Virginia Department of Administration, Purchasing Division (hereinafter referred to as the "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 (hereinafter referred to as the "Agency") to support compliance with applicable grant and contract terms on well plugging projects funded by Section 40601 of the Bipartisan Infrastructure Law. To ensure adherence to the terms of the grant and the most appropriate use of funds, a supplemental quality assurance ("SQA") contract is necessary per the specifications and terms and conditions.

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
	Supplemental Quality Assurance Per Well	250.00000	EA		

Comm Code	Manufacturer	Specification	Model #
03151507			

Extended Description:

Supplemental Quality Assurance Per Well. Quantities are estimated and for bid purposes only.

SCHEDULE OF EVENTS

Line	Event	Event Date
------	-------	------------

	Document Phase	Document Description	Page 3
DEP2500000002	Final	DEP OOG - Supplemental Quality Assurance	

ADDITIONAL TERMS AND CONDITIONS

See attached document(s) for additional Terms and Conditions



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
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CRFP 0313 DEP2500000002

2

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BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON WV 25305

JS

VENDOR

Vendor Customer Code: 000000189555

Vendor Name : ATC Group Services, LLC dba Atlas Technical Consultants 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

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(304) 558-2306

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Line	Comm Ln Desc	Qty	Unit of Measure	Unit Price	Total Price
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Comm Code	Manufacturer	Specification	Model #
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Extended Description:

Supplemental Quality Assurance Per Well. Quantities are estimated and for bid purposes only.

SCHEDULE OF EVENTS

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State of West Virginia
Centralized Request for Proposals
Consulting

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Date Issued	Solicitation Closes	Solicitation No	Version
2024-08-07	2024-09-04 13:30	CRFP 0313 DEP2500000002	1

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 :** USA **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 09/10/2024

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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

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Comm Code	Manufacturer	Specification	Model #
93151507			

Extended Description:

Supplemental Quality Assurance Per Well. Quantities are estimated and for bid purposes only.

SCHEDULE OF EVENTS

Line	Event	Event Date
------	-------	------------

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 09/10/2024

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

304-533-0367

(Phone Number) (Fax Number)

jeff.rossi@oneatlas.com

(Email Address)

REQUEST FOR PROPOSAL

(DEP CRFP 25*02)

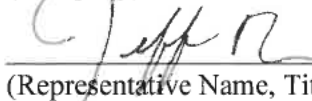
Proposal 1: Step 1 – $\$1,000,000 / \$1,000,000 = \text{Cost Score Percentage of } 1 \text{ (100\%)}$
Step 2 – $1 \times 30 = \text{Total Cost Score of } 30$

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

- 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 Consultants, LLC (formerly ATC Group Services LLC)
(Company)

 Jeff Rossi, Contract Manager
(Representative Name, Title)

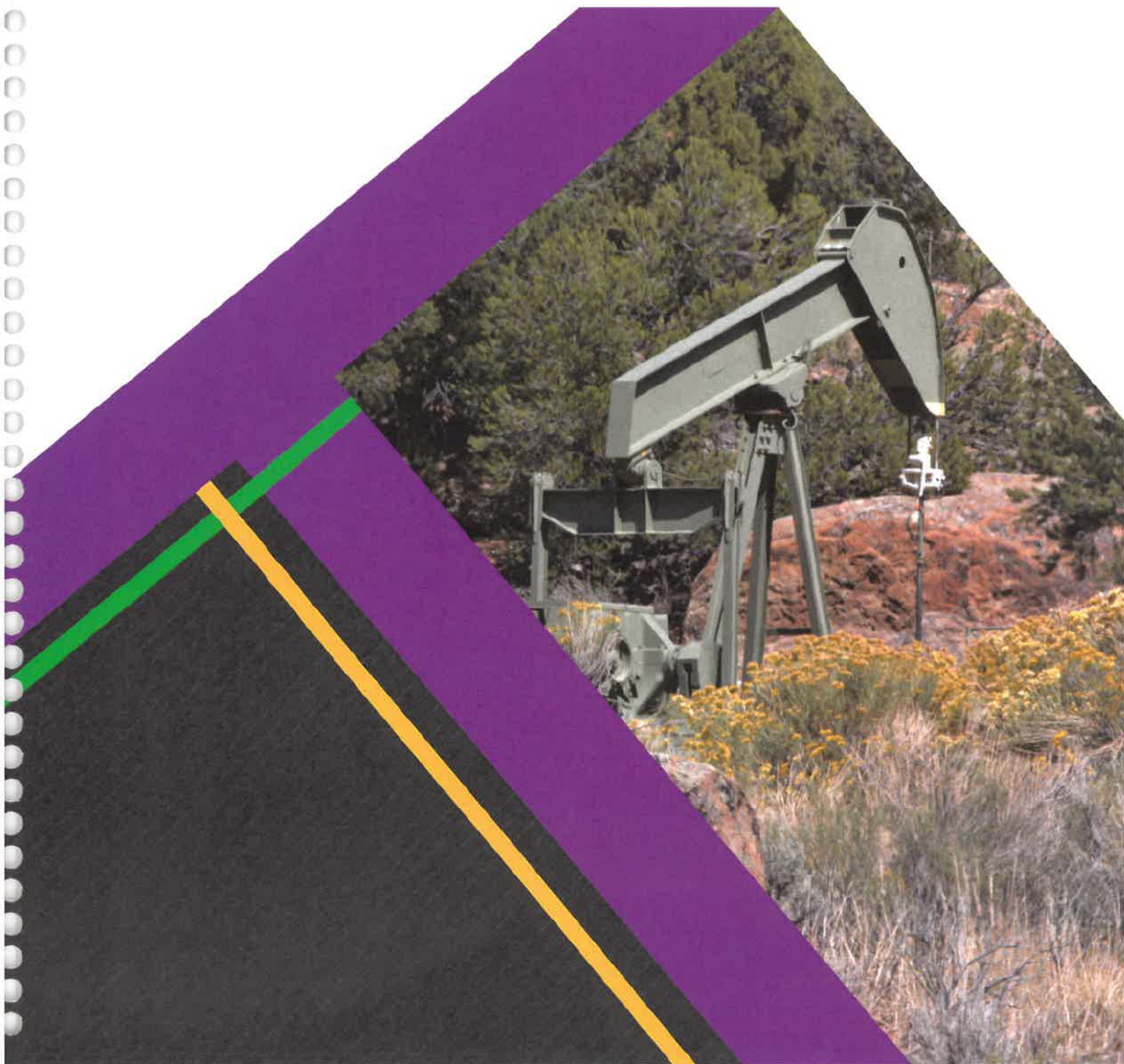
304-533-0367
(Contact Phone/Fax Number)

09/10/2024
(Date)

APPENDIX



B. RESUMES



BEN STAUD, PE

PROJECT MANAGER

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.

SCOTT McCREADY, LEED AP, PG

PROGRAM MANAGER

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 facets of our business and 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.
- ▶ Development and Implementation of audit programs for environmental and safety regulatory compliance. Mr. McCready has extensive environmental and safety audit experience on a range of compliance assessments of OSHA, Clean Air Act and Clean Water Act regulatory compliance.
- ▶ 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

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

SITE RECLAMATION - TECHNICAL ADVISOR/QA OFFICER

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 experience and is a recognized site assessment and remediation leader. Ken 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. 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. 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.

With CORE Environmental, he served as Senior Hydrogeologist supporting assessment activities for the 2014 Freedom Industries MCHM Elk River (WV) chemical release spill response under contract to WVDEP. This effort included data collection in accordance with standard operating procedures and Quality Assurance Project Plans. He also has experience supporting Superfund Site Remedial Investigation and Feasibility Study activities, and RCRA Facility Investigation and Corrective Action for multiple sites, including field construction oversight and quality assurance supervisor for soil solidification activities at a china manufacturing site with metals-impacted soil.

He achieved the first Chapter 245 site closure in PA using enhanced bioremediation carbon injectate technology, pioneered the use of surface geophysical methods to quickly identify contaminant migration pathways associated with a leaking 250-acre wastewater pond, remediated/closed out a comingled, multi-release gasoline plume site in Indiana PA on behalf of two major petroleum companies, and performed field support successfully demonstrating the capability of ground penetrating radar technology to map an ancient Minoan town in Greece buried in 1600 BCE by over 10 meters of pumice and ash in one of the largest volcanic events in human history.

He has successfully achieved regulatory closure for dozens of sites through State voluntary clean-up and storage tank/RCRA corrective action programs, negotiated cost-effective assessment and remediation strategies for property owners and industrial concerns, has provided litigation support for potentially responsible party disputes, and developed creative liability transfer solutions to support property transactions and land development projects. He has designed and operated remedial technologies for soil and groundwater including ozone sparge in situ chemical oxidation, dual phase extraction, multi-phase extraction, soil vapor extraction, ex situ chemical oxidation, and enhanced in situ biodegradation, including activated carbon and electron acceptor injection (over 100 injection locations) at multiple sites. He has designed and implemented vapor intrusion to indoor air mitigation using sub-slab depressurization, passive barrier, and hybrid technologies at residential and commercial facilities, including challenging installations at multiple existing manufacturing properties.

He has crafted unique solutions to overcome environmental obstacles to industrial real estate redevelopment in southwest PA. He has provided hydrology and contaminant (solute) transport subject matter expert testimony in Federal district court, including jury trial testimony, on behalf of a Kansas mining company defendant faced with agricultural salt pollution and financial loss claims from multiple plaintiffs, and has assisted in resolving comingled groundwater plume responsible party disputes at multiple sites. He has managed multi-site portfolios, including assessment/remediation efforts for Chevron, CSX, and other Fortune 500 companies. He has led vapor (and methane) intrusion assessment and mitigation design and construction oversight for multiple clients, including sub-slab depressurization system design for new and existing buildings, as well as crawl space ventilation, and vapor barrier vapor intrusion mitigation design. He has completed risk-based cleanup and obtained PADEP liability relief for property owners through the PA Act 2 Land Recycling Program (voluntary cleanup program), including Act 2 closure of the first multi-parcel industrial site bisected by a public roadway in PA, significantly reducing cleanup costs and expediting land development.

He has served as technical speaker on vapor intrusion to indoor air and RCRA topics, and provided RCRA training to military environmental practitioners at six DOD facilities from NC to Hawaii as part of a DOD contract.

As a seasoned industry veteran, he has supported over 100 UST closure efforts, over 500 Phase I/II ESAs, has performed human health risk assessment and solute transport modelling for multiple sites, and has successfully managed and closed out retail petroleum and railroad sites using both innovative and traditional remedial technologies including dual phase extraction, enhanced bioremediation (including powdered carbon and electron acceptor injection), ozone injection, and bioventing. He has experience supporting environmental efforts and/or delivering environmental solutions to clients for properties in over 20 US states from New York to California and Hawaii, as well as outside the US (bauxite mine groundwater impact) in Jamaica.

He currently directs site characterization and remediation activities at PA Chapter 245 storage tanks, vapor intrusion assessment/mitigation, water supply permitting, and spill response activities for multiple clients. He also currently provides support, mentoring, and direction

to environmental staff providing wetland delineation, ecological, NPDES and stream/wetland permitting, due diligence, and assessment/remediation services.

PROJECT EXPERIENCE

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

LRS responsible for site assessment, quality assurance, 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.

Fuel Spill Restoration, at Multiple Sites: Lookout, Saulsville, Pax, and other Sites, Confidential Insurance Carrier, WV

Project Manager responsible for site assessment, sampling, emergency response, and remediation at multiple fuel tanker spill sites, including data collection in accordance with quality assurance project plans, and site restoration activities.

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, including data collection in accordance with quality assurance project plans, and site restoration activities.

Retail Petroleum Release Site Assessment, Pilot Travel Centers, Nitro, WV

LRS responsible for supplemental site assessment of a petroleum release at a retail petroleum site, and development/implementation of a Quality Assurance Project Plan.

Soil and Groundwater Assessment,, Bulk Petroleum Storage Facility; Chevron Environmental Management; Allegheny County, Pennsylvania

PG responsible for operation and maintenance of a soil vapour extraction system to address chlorinated solvents in the subsurface.



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.

EDUCATION & QUALIFICATIONS

- Professional Engineer (APEGA and PEO)
- University of Calgary, B.Sc. – Mechanical Engineering
- 12 years of downhole oil and gas experience including plug and abandonment operations
- Well blowout prevention training
- H2S training
- First Aid training
- Safeland Training

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

California Geologic Energy Management Division (CalGEM) – Bakersfield, California

Adam is the lead technical engineer on this project, in which Atlas and 360 partnered to execute well plug and abandonment of 25 high risk wells located in dense commercial and residential areas in the city of Bakersfield. The project has required extensive work with stakeholders and risk management, along with technical expertise in managing numerous downhole issues. The scope of work includes regulatory submissions to the state, issuance of detailed work plans, on-site HSE management, daily reporting, and logistics planning.

Alberta Site Rehabilitation Program, British Columbia Dormant Site Reclamation Program and Saskatchewan Accelerated Site Closure Program

This project work included a variety of activities on over 4,000 sites including well abandonment, Phase I environmental site assessment, Phase II environmental site assessment, remediation of contaminated work sites, and reclamation of work sites. During these programs, 360 was successful in receiving funding due to their industry leading expertise in systematic and automated accounting practices, allowing them to provide auditable financial reporting and accountability to shareholders. Adam was the lead Plug & Abandonment Engineer on all operations for this program.

Montana Orphan Well Plugging Program for Montana Board of Oil & Gas Conservation, Land Owners and Tribal Authorities

Adam led the team of 360 and Well Done, who came together with a service rig partner in Northern Montana to deliver the plugging and abandonment of ten orphan wells for carbon credit generation. This project will generate more than 200,000 carbon offsets through the ACR Orphan Well Methodology that then ultimately finance the work and acts as a multiplying effect of nearly 1:1.

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
- Co-Chair of DACC IRP-30: Temporary Wellbore Suspension



Sabrina Moore, P.Eng.
Engineering Supervisor

INTRODUCTION

Sabrina began her career in the closure space in 2017 with 360. Sabrina has experience in all facets of closure from downhole abandonment, pipeline and facility decommissioning to environmental site assessments. This holistic approach has developed an adaptable skillset to all types of closure projects. Within the Engineering group, she focuses her experience on both routine and non-routine well abandonments. She has project managed hundreds of well abandonments across North America including winter-access only projects and non-routine remedial operations, often requiring timely government approvals. Her work with orphan well groups has created a heightened awareness to project efficiency and cost accountability. She has provided oversight for operations taking place in remote areas as well as environmentally sensitive locations. In addition to her execution experience, Sabrina has built a team of efficient project coordinators and administrators to assist in document control and cost management that have proven critical for short-term remote projects. She utilizes her organization and time management skills to execute on large abandonment programs that are consistently completed on time and under budget.

EDUCATION & QUALIFICATIONS

- Professional Engineer (APEGA)
- University of British Columbia, B.A.Sc. – Civil Engineering
- 7 years of downhole oil and gas experience including plug and abandonment operations
- Well blowout prevention training
- H2S training
- First Aid training
- Safeland Training

PROFESSIONAL EXPERIENCE

- 360 Engineering & Environmental Consulting Ltd., Abandonment Engineering Supervisor, 2017 – Present
- ORLEN Upstream Canada Ltd., Exploitation Engineering Summer Student, 2014-2016
- Blaze Energy Ltd., Engineering Summer Student, 2012

PROJECT EXPERIENCE

California Geologic Energy Management Division (CalGEM) – Bakersfield, California

Sabrina is an engineering supervisor on this project, in which Atlas and 360 partnered to execute well plug and abandonment of 25 high risk wells located in dense commercial and residential areas in the city of Bakersfield. The project has required extensive work with stakeholders and risk management, along with technical expertise in managing numerous downhole issues. The scope of work includes regulatory submissions to the state, issuance of detailed work plans, on-site HSE management, daily reporting, and logistics planning.

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RELEVANT COURSEWORK

- Project Management
- Pipeline Integrity Management
- Construction Management
- Law and Ethics for Engineers
- Environmental Engineering
- Fluid Mechanics
- Hydrology
- Rehabilitation of Concrete Structures
- Design of Wastewater Conveyance Systems
- Engineering Economics
- Reinforced Concrete Design I and II
- Open Channel Flow
- Optimization and Decision Analysis
- Solid Waste Engineering
- Surveying and GIS Analysis
- Heat and Mass Transfer
- Thermodynamics
- Structural Analysis

TRAINING

- AccuMap, SCADA, GeoScout, SolidWorks, MS Word, MS Excel, SAP200, Mathworks MATLAB, Qbyte, Adobe Software

ZAC GRAYSON

AIR QUALITY SPECIALIST / EMERGENCY RESPONSE / HEALTH & SAFETY OFFICER

EDUCATION

BS, Environmental Science,
Bethany College, 2011

CERTIFICATIONS

Method 9 certification
RSO (Radiation Safety Officer)
8-Hour Hazwoper Supervisor
ISO 9001/14001 auditor
RCRA DOT/Hazmat
Mobile Equipment Certifications
CPR certification
OSHA 10
LOTO
Class K Wastewater Operator
License (in progress)

EXPERIENCE & RESPONSIBILITIES

Zac Grayson specializes in environmental compliance, regulatory analysis, and development. Mr. Grayson has 12 years of experience overseeing regulatory and compliance in various industries. His experience centers around Title V air permitting, hazardous waste, stormwater, wastewater, above-ground storage tank programs, and Health, Safety, and Environmental (HSE) compliance.

PROJECT EXPERIENCE

Water Compliance Program Support; United States Postal Service, Nationwide

Completed environmental compliance reviews of SPCC Plans, SWPPP, and No Exposure Certificate (NEC) certifications in various states involving assessment of both processing and distribution centers and vehicle maintenance facilities.

Environmental Compliance Program Support; Various Companies, Nationwide

Assisted with environmental audits, SPCC/SWPPP site visits, and various aspects of environmental compliance. Contributed to numerous NPDES/NEC permit renewals and Title V/SMOP air permit renewals. Developed a Potential to Emit (PTE) database for multiple facilities and created SPCC/SWPPP training programs and plans, and supported daily facility compliance activities in the water, waste, and air sectors.

Environmental Compliance Management; Asphalt Emulsion, Nationwide

Conducts annual air compliance evaluations for 11 facilities across the United States. Performs SPCC/SWPPP updates for all facilities and supports environmental compliance reporting for air, water, waste, and chemical management. Completes environmental permitting for air, water, and waste at all locations. Manages daily compliance of storage tanks and oversees all aspects of environmental compliance for each facility.

Environmental and Safety Program Support; Remediation, Ohio

Assists with environmental compliance through site audits, hazardous waste contingency plans, lock-out/tag-out procedures, environmental inspections, and the facility's HASP. Developed and implemented an Electronic Inspection Program to enhance facility compliance.

Other Environmental and Safety Experience; Various Industries, Nationwide

As an Environmental and HSE Manager, managed programs for a Title V air permitting facility and Ohio's largest hazardous waste generator. Oversaw HSE/ North American Electric Reliability Corporation (NERC) programs at a natural gas power plant in Illinois. Ensured compliance with hazardous waste, storm water, wastewater, and storage tank regulations, including permit adherence and regulatory reporting for chemical, aluminum smelting, and R&D operations. Supervised on-site personnel and contractors, conducted inspections, managed SPCC/SWPPP plans, and coordinated with agencies during audits and remediation efforts. Served as the Radiation Safety Officer, supporting health and safety programs, providing training, managing plant environmental projects, and leading sustainability initiatives. Additionally, handled

small minor operating permit (SMOP) permit renewal, Air Information Management System (AIMS) reporting, Request for Determination (RFD) submissions, semi-annual emissions reporting, National Emission Standards for Hazardous Air Pollutants (NESHAP) compliance, air emissions inventory, and potential to emit calculations. Managed wastewater treatment, storm water, drinking water sampling, and permit renewals; conducted Superfund Amendments and Reauthorization Act (SARA) reporting, Pennsylvania hazardous substance form submissions, storage tank compliance, chemical release prevention, and PCB management.

KYLE HELAL

WATER RESOURCES/WETLANDS SPECIALIST

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.

JIM KOOSER

WATER RESOURCES/WETLANDS SPECIALIST

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 Kooser 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. Kooser 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

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. Kooser 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. Koozer 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.

CHUCK KISAMORE, CSP

EMERGENCY RESPONSE / HEALTH & SAFETY OFFICER

EDUCATION

BS, Science, Safety Management,
Slippery Rock University, 2015

CERTIFICATIONS

Certified Safety Professional
(CSP) Certification, #CSP39383

Pennsylvania Asbestos Building
Inspector, #056086

Pennsylvania Radon Employee,
#9011

NRSB Radon Measurement
Specialist, #22SS030

Pennsylvania Lead Inspector,
#007051

West Virginia Asbestos Inspector,
#A1010836

Ohio Hazard Evaluation
Specialist, ES547641

EXPERIENCE & RESPONSIBILITIES

Chuck Kisamore is an Industrial Hygienist whose responsibilities include asbestos surveys, mold assessments, radon surveys, assisting with ventilation surveys, lead paint surveys, quantitative and qualitative respirator fit testing and industrial hygiene surveys for various hazards, including noise, hexavalent chromium, crystalline silica, and arsenic. He also is the acting Branch Health and Safety Officer. His duties include training, holding monthly meetings, incident investigations, and performing site audits.

PROJECT EXPERIENCE

Radon Sampling; Arkansas Public Housing, Little Rock, AR

Mr. Kisamore conducted radon sampling for 200 apartments in a public housing facility. Duties included setting liquid scintillation vials, taking notes, and picking the vials up when sampling was complete.

Asbestos Surveys; City of Pittsburgh, PA

Mr. Kisamore conducted multiple pre-demolition asbestos surveys. The surveys consisted of collecting asbestos samples of the suspect building material and reporting for the projects.

Asbestos Surveys; Confidential Retail Client

Mr. Kisamore conducted several asbestos surveys for a large retail client. Duties included sampling suspect building materials and uploading documents and photos.

Asbestos and Lead Paint Surveys; Confidential Petroleum Client

Mr. Kisamore conducted a small asbestos and lead paint survey for an oil gas client. Survey consisted of a limited asbestos survey and lead samples to one small building.

Health and Safety Specialist; Various Locations Nationwide

Prior to joining Atlas, Mr. Kisamore traveled extensively throughout the United States while working as a Safety Specialist. His job functions included on-site program management, daily audit, exposure monitoring, regulated material surveys, and reporting. These sites included active and future demolition and remediation sites. Mr. Kisamore also maintained client relations while on site. During his tenure, he conducted a very large regulated material survey in Louisiana. Mr. Kisamore's duties on-site included serving as the Field Team Lead and Licensed Louisiana Asbestos Inspector, and collecting lead paint samples. This survey included eight buildings on the property that consisted of two laboratories, one production area, and five warehouse-style buildings with offices.

APPENDIX



C. PERSONNEL CERTIFICATIONS



Ben Staud, PE | Project Manager

Search: Details

Name: BENJAMIN T. STAUD

WV Professional Engineer: PE License Number: [REDACTED]

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 [REDACTED]

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

Scott McCready, LEEP AP, PG | Program Manager**Scott McCready****LPG Number:**

741

Date Licensed:

12/11/1987

License Expires:

12/31/2025

License Status:

Current

Specialty:

Environmental Geology,
Hydrogeology,
Remediation

Company:

ATC Group Services, LLC

Address:

8100 Snowville Road
Brecksville OH 44141

Phone:

440-262-1292

Email Address:scott.mccready@atcgs.com**Web Address:**www.atcgroupservices.com

Ken Pasterak, LRS, PG | Environmental Specialist



west virginia department of environmental protection

Division of Land Restoration
601 57th 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 environment



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

Chuck Kisamore, CSP | Emergency Response/Health & Safety Officer

Board of Certified Safety Professionals

upon the recommendation of the Board of Certified Safety Professionals,
by virtue of the authority vested in it, has conferred on

Charles Kisamore

the credential of

Certified Safety Professional

and has granted the title as evidence of meeting the qualifications and passing
the required examination so long as this credential is not suspended or revoked
and is renewed annually and meets all recertification requirements.

Leslie Stachel

Board President

Christy Uden

Board Secretary



March 26, 2021

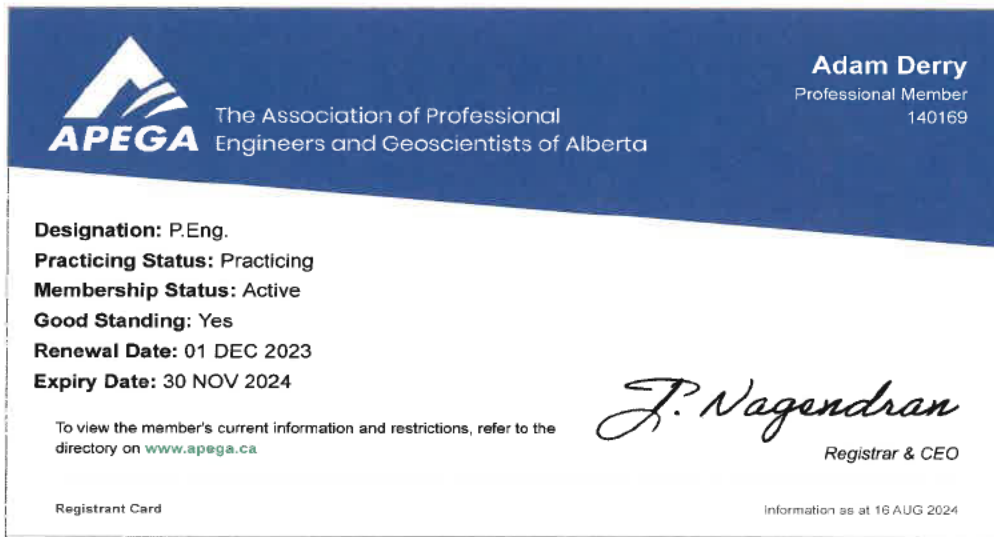
Date Issued

Credential Number



The digital badge is the official documentation of the certificate.

Adam Derry, P. Eng | Technical Advisor



Sabrina Moore, P. Eng | Supplemental Quality Assurance Officer



Sabrina Moore
Professional Member
248179

Designation: P.Eng.
Practicing Status: Practicing
Membership Status: Active
Good Standing: Yes
Renewal Date: 01 JUN 2024
Expiry Date: 31 MAY 2025

To view the member's current information and restrictions, refer to the directory on www.apega.ca


J. Nagendran
 Registrar & CEO

Registrant Card

Information as at 22 AUG 2024

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 # [REDACTED]

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 [REDACTED]. 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. 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.

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

A participant of the AmericanJobCenter® network



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

Chair, 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

Legal Name: ATC GROUP SERVICES, LLC

WV Company COA: COA Number: [REDACTED]

COA Status: Active

COA Issue Date: 02/13/2003

COA Expiration Date: 12/31/2025

Primary Address of Record: 5750 JOHNSTON STREET
SUITE 400
LAFAYETTE, LA 70503

Engineer In Responsible Charge: CHAD JOHN HARRISON

PE License Number: 023116

PE License Status: Active

PE License Expiration: 12/31/2024

Search: Details

Legal Name: ATLAS TECHNICAL CONSULTANTS LLC

WV Company COA: COA Number: [REDACTED]

COA Status: Active

COA Issue Date: 06/28/2021

COA Expiration Date: 12/31/2025

Primary Address of Record: 13215 BEE CAVE PKWY, BLDG B
SUITE 230
AUSTIN, TX 78738

Engineer In Responsible Charge: 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: [REDACTED]

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

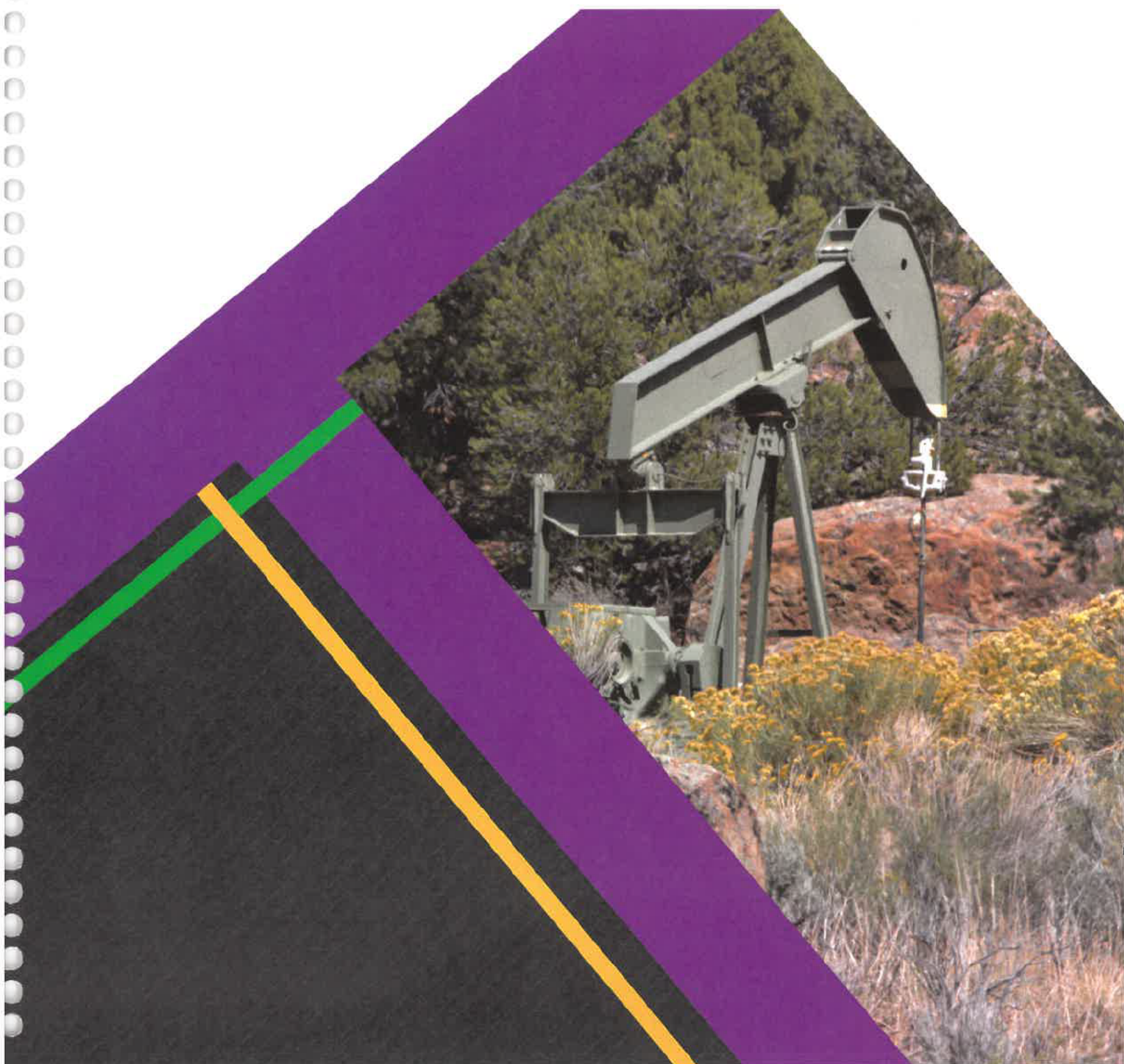
Secretary of State

578822

APPENDIX



E. DOCUMENTATION FROM PREVIOUS PROJECTS - 360



DAILY ABANDONMENT REPORT - Day 6

COMPANY			DAY	6	DATE	2024-08-27
UWI			AFE EST. COST	TBD	DAILY HRS	11.0
WELL NAME			DAILY COST		PREVIOUS HRS	52.0
LICENCE			PREV. COST		CUMM. HRS	63.0
AFE NUMBER			CUMM. COST		DAILY KM	
SUPERVISOR			WEATHER	Sun	PREVIOUS KM	0
SUPERVISOR PH.			TEMPERATURE	100	CUMM. KM	0
CASING / TUBING	SIZE (mm)	WEIGHT (kg/m)	GRADE	TOP (mKB)	BOTTOM (mKB)	CEMENT RETURNS
Surface	12.8	45.0	H40	Surface	148.0	
Intermediate	N/A	N/A	N/A		N/A	
Production	7.0	20/23	J-55	Surface	4017.0	
Liner	5.5	15.5/17	J-55	3777.0	4219.0	
Tubing	2.9	6.5	J-55		TBD	
PERFORATIONS			WELLBORE DATA			
FORMATION	DEPTH (mKB)	STATUS	GL-ELEV (m)	400.0	KB-GL (m)	11.0
WSO	4027.0	Open	KB-ELEV (m)	411.0	KB-THF (m)	10.0
Slotted liner	4036.0 - 4219.0	Open	TD (mKB)	4220.0	KOP (mKB)	N/A
			TVD (mKB)	4220.0	PBTD (mKB)	TBD
			FLUIDS SUMMARY			
				WATER	OIL	OTHER
			Previous Load			
			Daily to Well			
			Daily from Well			
			Total Load Fluid	0.0	0.0	0.0
NEXT DAY'S PLANNED OPERATIONS						
Finish RIH with Overshot, latch fish, pull test. RIH with Eline, sinker bar and gauge ring, tag cement top, confirm solid tag, Rig out Key 135, MIRU Key 1.5" coil unit. RIH, begin to mill out cement inside tubing						
DAILY OPERATIONS						
05:30am	Met on loc with Key Energy rig crew, Atlas tech hand. Swept lease and perimeter for LEL, H2S, None to report. Held pre-job safety and procedural meeting reviewing permit, 360 program, discussing all hazards and job procedures involved with daily operations. (things to note: highly populated area, high traffic, congested lease, slips/trips, high pressure, pinch points, overhead hazards.					
06:00am	Took SICP - 0 psi, SITP - 0 psi. No LEL present.					
06:30am	Continued to POOH with the remaing 44jnts of 2.875" work string. Recovered all tubing on surface. Laid out the two 4.75" drill collars, broke down and laid out skirted mill, inspected once on surface. Did see good wear on the carbides to show we were dressing on the fish top.					
08:00am	Made up Select Overshot BHA as follows: - Cutlip overshot c/w 2.875" grapple (OD - 5.75", ID 2.875", length - 2.37 ft) - Drive sub (OD - 5.75", ID - 2.875", length - 1.09 ft) - Bumper sub (OD - 4.75", ID - 2.375", length - 4.75 ft) BHA overall length - 8.21 ft Lowered BHA in the hole, started in hole with BHA & 2.875 N-80 work string.					
10:00am	Tagged fish top with 31 ft in on jnt #69 @ 2208 ft-KB. Set down 3000 lbs. Ensured good latch. String weight - 15,000 lbs. Picked up to 20,000 lbs, 25,000 lbs, 30,000 lbs, 40,000 lbs to ensure solid latch on fish.					
10:30am	Titan Eline arrived on loc. Held safety and procedural meeting with E-line crew reviewing program, task at hand and all safety hazards and procedures. Spotted and rigged up Titan Eline:					

DAILY ABANDONMENT REPORT - Day 6

DAILY OPERATIONS - CONTINUED

11:00am Once Eline was rigged up. Made up 2.1" gauge ring (jet cutter is 2.08". RIH with gauge ring. Tagged solid at fish top at 2204 ft (wireline depth). Could not work tools through. POOH with gauge ring. Made up and ran in hole with 1.70" gauge ring. No problems getting through the fish top. Continued to RIH, tagged solid at 2848.00 ft-KB. Worked tools several times, tagged same place each time.
rep Kevin on loc to witness the tag, also hard copy of the Eline log was printed out and received by Kevin.

13:00pm POOH with gauge ring. Rigged out and released Titan.

13:30pm Filled annulus with fresh water, pressure tested annulus to 300 psi for 10min. Solid test recorded.

14:00pm Operation change due to tagging cement high in tubing. Came off the fish with overhot by rotating to the right. POOH and stand the 69jnts of 2.875" tubing. Removed Bumper sub and overshot. Tore down and rebuilt overshot c/w with O-ring seals.

15:00pm Made up new Select 2.875" overshot BHA as follows:
Made up Select Overshot BHA as follows:
- Cutlip overshot c/w 2.875" grapple (OD - 5.75", ID 2.875", length - 2.37 ft)
- Drive sub (OD - 5.75", ID - 2.875", length - 1.09 ft)
Total BHA length - 3.46 ft
Started in hole with overshot and 2.875" N-80 work string.

16:00pm Ran BHA and 20jnts in the hole tonight. Landed overshot @ 633.46 ft for the night.

16:30pm Secured the well, SDFN

Waste hauled to disposal today: 0 bbls
Cumulative waste hauled to disposal: 75 bbls
Cumulative cement volume used: 11.5 bbls





WELL DATA ENTRY

Date	20-Aug-24		Formation	WSD
Oil Company			Perforations	4027
Wellsite Supervisor			Status	Open
Well Sup Phone			Formation	Slotted liner
Rig Company	Key Energy		Perforations	4036.0 - 4219.0
Rig Number	135		Status	Open
Rig Manager	Dave Wallace		Formation	
Rig Manager Phone	1-661-481-1375		Perforations	
Well Number	K.C.L A78-4		Status	
Surface Location	Sec 24, T29S, R27E, MD		Formation	
Well Name	K.C.L A78-4		Perforations	
API Number	402908259		Status	
AFE #	TBD		Formation	
AFE Amount	TBD		Perforations	
Area	Fuirvale		Status	
KB Elevation	411	ft	Formation	
GL Elevation	400	ft	Perforations	
TD	4220	ft-KB	Status	
PBTD	TBD	ft-KB	Formation	
KOP	N/A	ft-KB	Perforations	
TVD	4220	ft-KB	Status	
BGWP	N/A	ft-KB	Formation	
KB - THF	10	ft	Perforations	
KB - SCF	9	ft	Status	
Spud Date	N/A		Formation	
Rig Release Date	N/A		Perforations	
On Prod Date	N/A		Status	
Surf Csg Size	12.75	in	Surface casing cement details	
Surf Csg Weight	45	lbs/ft	160 sacks of Type C permanent cement, No cement returns	
Surf Csg Grade	H40			
Surf Csg Depth	148	ft		
Int Csg Size	N/A	mm	Intermediate casing cement details	
Int Csg Weight	N/A	kg/m		
Int Csg Grade	N/A			
Int Csg Depth	N/A	mKB		
Prod Csg Size	7	in	Production casing cement details	
Prod Csg Weight	20/23	lbs/ft	250 sacks Victor cement	
Prod Csg Grade	J-55		100 sacks Victor cement	
Prod Csg Depth	4017	ft-KB	No cement returns	
Liner Size	5.5	in	Liner casing cement details	
Liner Weight	15.5/17	lbs/ft		
Liner Grade	J-55			
Liner Top Depth	3777	ft-KB		
Liner Bottom Depth	4219	ft-KB		
Tubing Size	2 7/8	in	Tubing and BHA details	
Tubing Weight	6.5	lbs/ft		
Tubing Grade	J-55			
Tubing Depth	TBD	ft		
Tubing Thread	EUE			



SURFACE CASING VENT FLOW / GAS MIGRATION REPORT

The information captured on this sheet will be used to ensure that vent flows and/or gas migration information is reported in accordance with EUB ID 2003-01

1: WELL INFORMATION

WELL LICENSE NO.: _____ UNIQUE IDENTIFIER: _____ DATE TESTED: _____

2: SURFACE CASING VENT FLOW DETAILS

VENT FLOW EXISTS: No Yes If YES, complete the rest of this section

DETECTION METHOD: Test Odour Visual

TEST TYPE: Vent Flow / Bubble test gas migration, vent flow or ventflow/gas migration

FLOW SUBSTANCE: Gas Oil Condensate Salt Water Other: _____

FLOW RATE: _____ m³/d TOO SMALL TO MEASURE:

STABILIZED SHUT-IN PRESSURE: _____ kPa

H₂S PRESENT: No Yes PUBLIC/ENVIRONMENTAL HAZARD: No Yes

VENT POSITION: Open Closed

GROUNDWATER BASE: _____ mKB DOMESTIC WATER WELL WITHIN 1KM RADIUS: No Yes

CLASSIFICATION: Serious Non-Serious

3: GAS MIGRATION DETAILS

GAS MIGRATION EXISTS: No Yes N/A

LEL READING WITHIN 6 m OF WELL: _____ % At vent opening

4: CASING INFORMATION

CEMENT TO SURFACE: Yes No

CEMENT TOP: _____ mKB LOGGED: Yes No
ESTIMATED: Yes No

SURFACE CASING:	148 mKB	Size 12.75	Grade H40	Weight 45 kg/m
INTERMEDIATE CASING:	N/A mKB	Size N/A	Grade N/A	Weight N/A kg/m
PRODUCTION CASING:	4017 mKB	Size 7	Grade J-55	Weight 20/23 kg/m
LINER CASING:	4219 mKB	Size 5.5	Grade J-55	Weight 15.5/17 kg/m

COMMENTS:

By: _____
PLEASE PRINT NAME

SIGNATURE



OPERATIONAL OCCURRENCE (KICK/BLOW-OUT/LOST CIRCULATION)

This form must be filled out for every drilling and completion job.

Information captured on this sheet will be used for all Directive 059 electronic submissions.

Water flows or artesian flows are considered blowouts, except in cases where a blowout preventer (BOP) is present. Enter the water flow as a "Kick" if encountered with a BOP on the well. Check off "Blowout" in the absence of a BOP.

1: WELL INFORMATION:

LICENSE NO.: _____ BOTTOMHOLE LOCATION: _____ REPORT DATE: 2024-08-20

2: OCCURRENCE TYPE:

Describe the occurrence you are reporting:

Kick
Blowout
Lost Circulation
No Incident Encountered

If no incident encountered, check box, and return form to Calgary. If incident encountered, continue filling out this form and return to Calgary.

3: OPERATION IN PROGRESS:

Drilling
Circulating
Coring
Logging

Tripping in
Tripping out
Running casing
Testing

Occurrence Date (enter date the incident began): _____

Occurrence Depth (enter total depth the well was at when incident began): _____ m KB

Occurrence Mud Density (enter the density of fluid in the wellbore when incident began): _____ kg/m³

Controlled Date (enter date the incident was controlled): _____

Controlled Depth (enter total depth the well was at when incident was controlled): _____ m KB

Controlled Mud Density (enter the density of the fluid in the wellbore when incident was controlled): _____ kg/m³

Lost Circulation Total Fluid (if recording a lost circulation, enter an estimate of volume of fluid lost): _____ m³

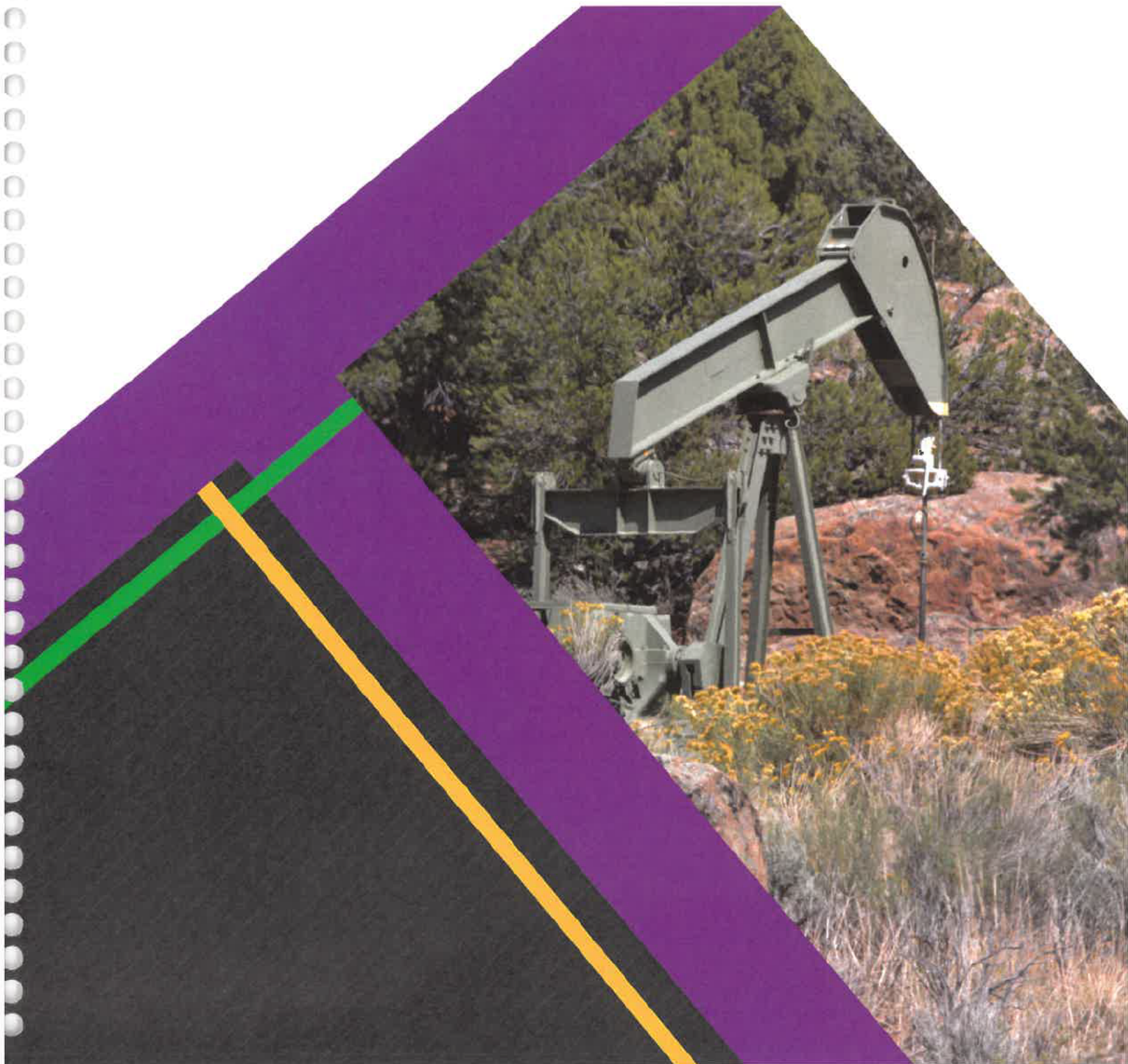
By: _____
FIRST AND LAST NAME (PRINT)

COMPANY NAME

APPENDIX



F. DOCUMENTATION FROM PREVIOUS PROJECTS - WELL DONE



TO: West Virginia Department of Environmental Quality (WVDEP)

FROM: Curtis Shuck, Well Done Foundation

DATE: August 7, 2024

RE: Proposed Pre and Post Plugging Orphan Well Methane Quantification Protocols for
DEP OOG - Methane Emission Quantification Solicitation No.: CRFP0313 DEP2500000001

MEMORANDUM

Formed in 2019, the Well Done Foundation, Inc. a Montana based 501(c)(3) has been at the forefront of orphan and marginal well methane measurement and monitoring. In 2020, Well Done entered into an agreement with the American Carbon Registry (ACR) as the original sponsor of the METHODOLOGY FOR THE QUANTIFICATION, MONITORING, REPORTING AND VERIFICATION OF GREENHOUSE GAS EMISSIONS REDUCTIONS AND REMOVALS FROM PLUGGING ORPHAN OIL AND GAS WELLS IN THE U.S. AND CANADA. To date, Well Done has plugged more than 45 orphan wells in 5 States.

The Well Done Foundation, Inc. and Well Done New Mexico LLC (Well Done) have been performing pre and post plugging methane measurement and monitoring (emissions quantification) for the State of New Mexico (NMOCD) since August 2022. Presently, Well Done has conducted pre plugging methane quantification on more than >1,600 orphan and marginal conventional wells nationwide under the DOI's BIL/IIJA Program, giving Well Done the largest orphan and marginal conventional well methane quantification database in the United States.

Additionally, Well Done has performed pre and post plugging methane quantifications on more than 1,000 orphan wells nationwide under the ACR's METHODOLOGY FOR THE QUANTIFICATION, MONITORING, REPORTING AND VERIFICATION OF GREENHOUSE GAS EMISSIONS AND REMOVALS FROM PLUGGING ORPHAN OIL AND GAS WELLS IN THE U.S. AND CANADA, VERSION 1.0 May 2023 (sponsored by the Well Done Foundation).

Measurements proposed for this project are to be performed consistent with the U.S. Department of Energy (DOE) Methane Measurement Guidelines for Marginal Conventional Wells – Version 1.0 dated April 17, 2024 and the U.S. Department of Interior (DOI) Orphaned Wells Program Office Assessing Methane Emissions from Orphaned Wells to Meet Reporting Requirements of the 2021 Infrastructure Investment and Jobs Act: Methane Measurement Guidelines July 2023 Version.

Pre and Post Plugging Point-Source Methane Quantification Techniques – Explained


Performed by Qualified Measurement Specialists (QMS)¹, the Well Done Team uses hand-held natural gas detectors, high-flow samplers and Ventbuster Instruments, that are industry proven and DOE/DOI approved direct-emission, point source measurement techniques and equipment that require an individual to be present at the well site². These techniques and equipment are capable of detecting and quantifying methane

¹ QMS defined by the DOE April 2024 Methane Measurement Guidelines, Section 4.1 and DOI July 2023 Methane Guidance, pg.15-16.

² Instrumentation used to measure methane, defined by the DOI July 2023 Methane Guidance, pg. 7-8.

emissions at leak rates of *<1 gram per hour or lower*, making them suitable for orphaned well sites and are the same techniques and equipment currently being used by Well Done Team members for DOI/IJA orphan well

emissions reporting³ The following is the Well Done Pre-Plugging Methane Screening & Measurement Protocol, shown in Image 2.1⁴:



Well Done
FOUNDATION

333 Main Street Shelby, MT 59474 | P.O. Box 10640 Bozeman, Montana 59719 | (406) 460-0903

TO: WDF Measure 1 Qualified Measurement Specialists (QMS) for CalGEM Projects

FROM: Curtis Shuck, Chairman

DATE: May 6, 2024

RE: Orphan Well Methane Screening & Measurement Protocol – Rig Up Checklist

MEMORANDUM

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 Wellsite Arrival
4. Position vehicles and equipment in a safe location with a clear egress
5. Record Qualified Measurement Specialist (QMS) conducting the Orphan Well Pre Plug Monitoring
6. Rig up Wind Directional Indicator
7. Record on-site weather conditions
8. Position Fire Safety Equipment
9. Perform Job Hazard Analysis (JHA)
10. Ensure proper PPE is in place and conduct a Wellsite Walk
11. Take Well and Site Photos (North Facing, East Facing, South Facing, West Facing, Wellhead, Tanks, etc.)
12. Record Well Class: (not detected, detected, or detected + may be high)
13. Perform Field Gas Analysis using the project specified methane screening/detection device(s)
14. Take Photo of Gas Analysis Results from screening/detection devices
15. Record Methane Background Concentration Levels
16. Record: highest concentration of methane in ppm; leak location(s); gas smell; gas audible; gas venting can be observed or felt; gas venting through surface waters; methane concentrations detected > 1,000 ppm anywhere in the well vicinity
17. Collect Gas Sample(s) in Tedlar Bag(s) for laboratory analysis, marking date, time, Well Name, Well Number
18. Take Photo of Gas Sample in Tedlar Bag @ well sign, wellhead
19. Secure Gas Sample(s) in a designated storage device (locker) and complete Chain of Custody Form
20. Rig up Ventbuster™ Unit, or SEMTECH Hi-FLOW2 to the orphan well using one of three (3) configurations, zero the device flow and concentration according to the manufacturer's guidelines
21. Prepare "Start Test" with complete metadata in ALL Fields, using well name, UWI and Correct Contract ID
22. Start Ventbuster or SEMTECH HiFLOW2 Test on High Flow (monitor flow results and prepare to zero and restart VB Test in Low Flow)
23. Rig up other methane quantification devices as may be required/specified for the project
24. Phone/Text Joint Well Operations Center (JWOC) for VB Test Start Confirmation
25. Write Field Notes in Personal Journal
26. Record Field Notes in the WDF Well Intel™ Site
27. Upload all Photos into WDF Well Intel™ Site
28. Place "Test Well" informational signage and other project required information at the Well Site
29. Secure Test Location
30. Record Wellsite departure time in Personal Journal

Image 2.1 – Well Done's Pre Plugging Orphan and Marginal Conventional Well Methane Screening & Measurement Protocol – Rig Up Checklist, that covers the recording requirements as set forth in the DOI July 2023 Methane Guidance, pg.21.

Pre Plugging Methane Emissions Quantification and Reporting: Flow Rate and Concentration

It is important to differentiate between detecting the presence of methane gas and being able to accurately determine gas types, concentrations and quantify their emission rates⁵. Handheld devices, such as gas sniffers and OGI cameras should be utilized to detect/estimate the presence and concentrations of gases

³ Well Done Foundation/Well Done New Mexico LLC have performed pre and post methane measurement and monitoring for the State of New Mexico, State of Kentucky, State of Pennsylvania and State of Colorado since August 2022 on >300 orphan wells.

⁴ Image 2.1 - WDF Orphan Well Screening & Measurement Protocol – Rig Up, attached.

⁵ "Screening" defined in the DOI July 2023 Methane Guidance, pg.14.

only. Methane emissions quantification requires precision instrumentation and testing protocols, specifically designed, and calibrated to measure micro and macro flows and concentrations of methane gas and can differentiate the “other” greenhouse⁶ gasses that are typically present in orphan oil & gas wells.

Additionally, collecting background methane levels for each well, or in the case of dense well spacings, a representative background test is to be performed by Well Done using a SEMTECH® Hi-Flow2 and running an ACR Leak Background Test and generating Leak Background Report⁷, as show below in Image 3.1:

ACR Leak Background Report for ACR Leak Background [2024-07-22T18:26:32] - KCL A78-4 (04-029-08259) Pre Plug (West Corner of Well Pad)					
Statistics					
		Minimum	Average	Maximum	
Stable CH4 Final Concentration		-1 PPM	-0 PPM	0 PPM	
Stable Standard Volume Flow		0 SLPM	0 SLPM	0 SLPM	
Stable CH4 Standard Volume Leak Rate		0.00000 SLPM	0.00000 SLPM	0.00000 SLPM	
Calibrations					
	Preceding Calibration Date	Following Calibration Date	Preceding Calibration Value	Following Calibration Value	Calibration Variance
Zero Offset	7/23/2024, 12:27:08 AM		-2.187		
Span Factor	7/23/2024, 12:27:08 AM		1.005		

Image 3.1: Leak Background Test Report



Image 3.2: Pre Plug Leak Background



Image 3.3: Leak Background During Plugging



Image 3.4: Pre Plug Leak Background

⁶ Other Gasses” defined in the DOI July 2023 Methane Guidance, pg. 8.
⁷ ACR Leak Background Report using a SEMTECH® Hi-Flow2

Accurately determining the methane emissions rate requires both a methane gas concentration analysis, and a methane gas flow measurement, that reflects a minimum 2-hour period of normalized flow⁸, as seen in the following Image 3.1 and 3.2, attached. A simple equation is shown below and in the following Test Report from the CalGEM DOI I/JA/BIL Project: **Needham Bloemer #001 (04-029-85759) – Pre Plug Methane Quantification**:

Methane Calculation: 717 grams CH₄ per cubic meter (717 g/m³ x 0.1564 m³/day = 112.14 g/day total /24 = 4.67 g/hour x 0.71014 (methane concentration) = **3.32 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/m³; 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/ft³], or 0.0004144 ounce per cubic inch [oz/inch³].

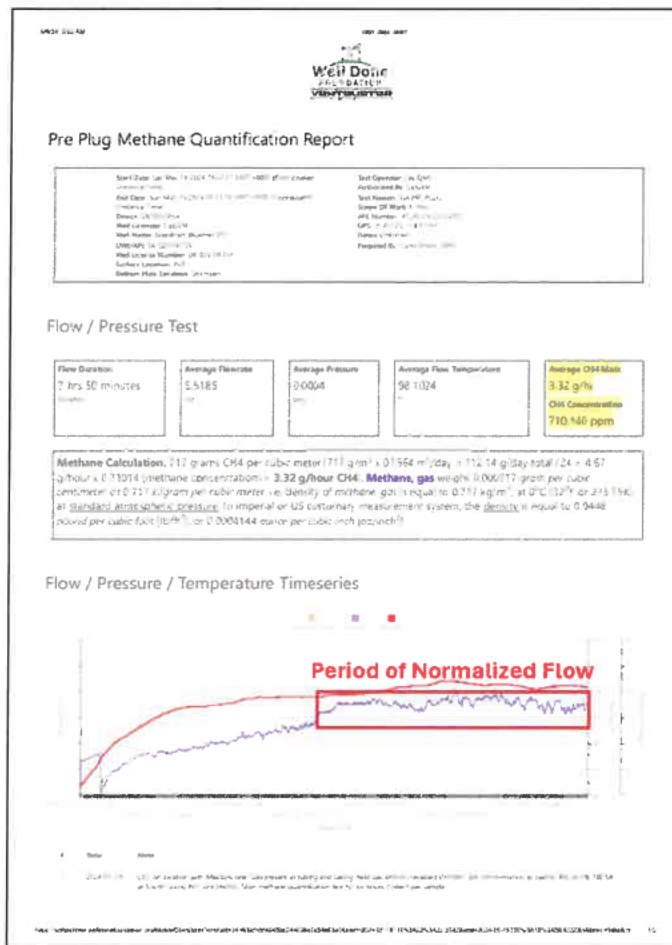


Image 4.1 – Needham Bloemer #001 Orphan Well Pre Plug Methane Quantification Report, pg. 1.

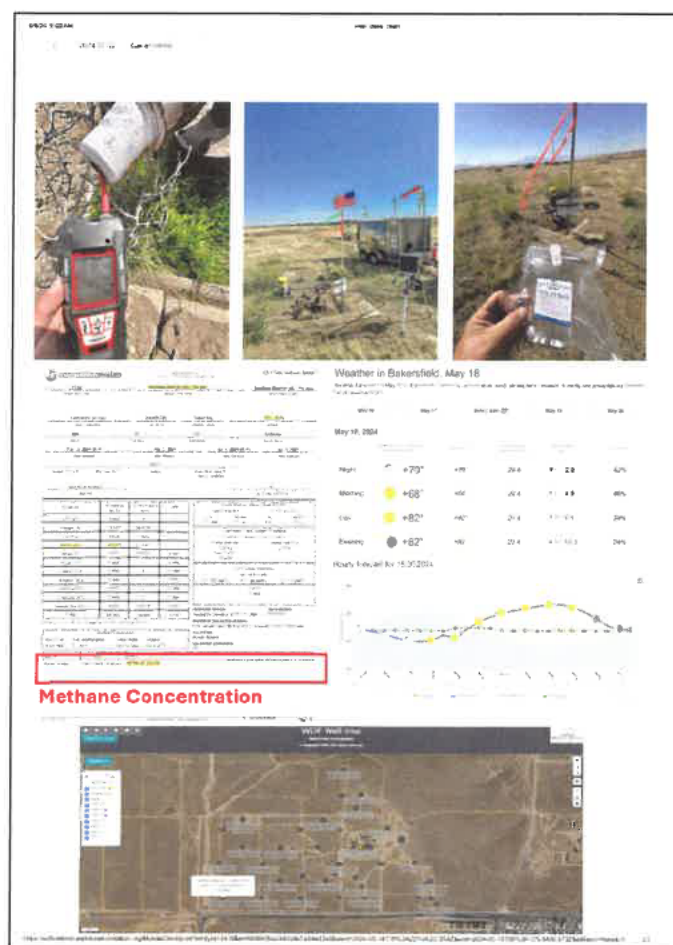


Image 4.2 – Needham Bloemer #001 Orphan Well Pre Plug Methane Quantification Report, pg. 2.

As mentioned in the July 2023 DOI guidance document, these flow and methane concentration measurements are being done for orphan wells with intact ports where the sensors can be plugged in by the Well Done group using the Ventbuster instrumentation⁹.

⁸ "Normalized Flow" is required by the ACR's METHODOLOGY FOR THE QUANTIFICATION, MONITORING, REPORTING AND VERIFICATION OF GREENHOUSE GAS EMISSIONS AND REMOVALS FROM PLUGGING ORPHAN OIL AND GAS WELLS IN THE U.S. AND CANADA, VERSION 1.0 May 2023 (sponsored by the Well Done Foundation).

⁹ Ventbuster Instruments White Paper on Methane Emissions Monitoring & Measurements, attached.

Well Done has three (3) ACR/DOE/DOI/BIL approved pre plugging methane testing protocols¹⁰:

1. Open Hole¹¹
2. Casing¹²
3. Production Tubing¹³

Each Pre Plugging Point Source Methane Quantification Test is conducted for a minimum of 6-hours, unless otherwise specified by WVDEP. This provides adequate time for the orphan well to achieve a “normalized flow” level or reveal a flow characteristic unique to the subject well.

Methane Quantification tests are immediately visible as “Live Data” to WVDEP through the Well Done “Well Intel© IoT Platform” and the completed tests are also cached as reports in Well Intel© for review prior to formal submission to WVDEP. Additionally, the Well Intel© platform acts as a real time Project Management Site that is shared by the WVDEP, the Plugging Contractor and the Well Done and contains photo images, field notes, well data and other useful project information.

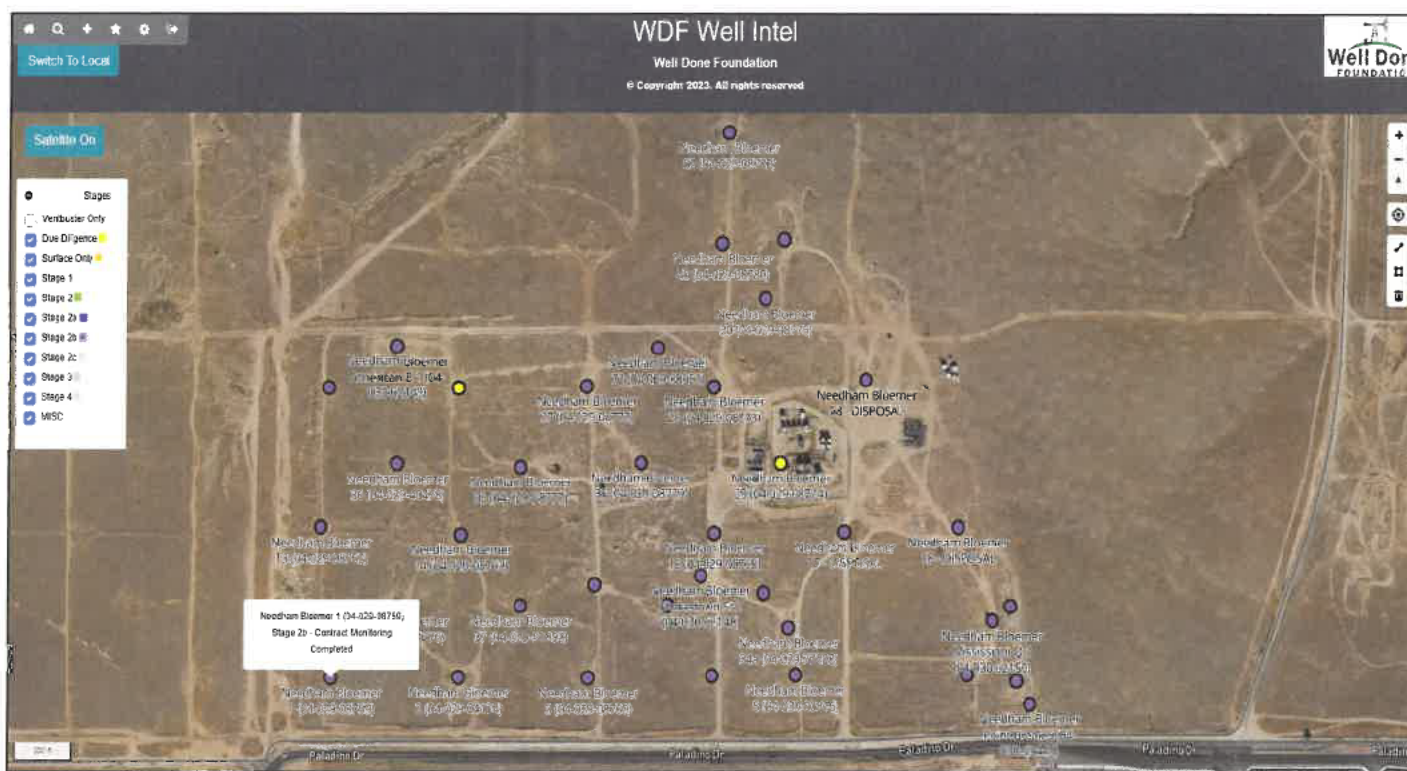


Image 5.1 – Screen Shot of Well Intel© IoT Platform Screen with Needham Bloemer #001 (04-020-8759) selected.

Measurement equipment certifications are provided to ensure compliance with DOI’s guidance and all data is recorded in accordance with the DOE April 17, 2024 Methane Measurement Guidelines for Marginal Conventional Wells and the DOI July 2023 Methane Guidelines, pg. 24-28 and ATLAS will provide the required QA/QC results.

¹⁰ Well Done methane quantification protocols area, attached.

¹¹ ACR Open Hole PPT, attached.

¹² ACR Casing PPT, attached.

¹³ ACR Production Casing, attached.

Well Done summarizes the pre plugging methane quantification results as reports on an individual orphan well basis¹⁴ and performs field/project averaging analysis¹⁵ periodically at the request of WVDEP:

CSAU Orphan Well CH4 Averaging - Applied to the 2 Wells Outside Sample Set - CES										
Prepared:	10.22.2023									
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
CSAU	97	30-005-10567	Chaves	52100-72995		48,847		7.31	44.97	0
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	0.0625	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
CSAU	847	30-005-29030	Chaves	52100-72998		48,847		7.31	44.97	0
CSAU	544	30-005-27986	Chaves	52100-72998	24-Feb	5,770	45,250	0.0296	0.01	0
CSAU	822	30-005-29027	Chaves	52100-72998	2-Jan	47,190	85,930	0.0014	0.000	0
CSAU	568	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
Total CSAU Wells		CSAU Well Sample Set		% of Total CSAU Wells		Total CH4 PPM	Total Explosive Gas PPM	Total Flow m3/day	Total CH4 Emission g/hour	
28		26		92.85		1,270,030	3,230,788	190.0554	1,169.25	
						Avg CH4 PPM		Average Flow m3/day	Total Avg CH4 Emission g/hour	
						48,847.31		7.31	44.97	

Image 6.1 – Field Averaging Report Summary – Cato San Andres Unit, Chaves County, NM.

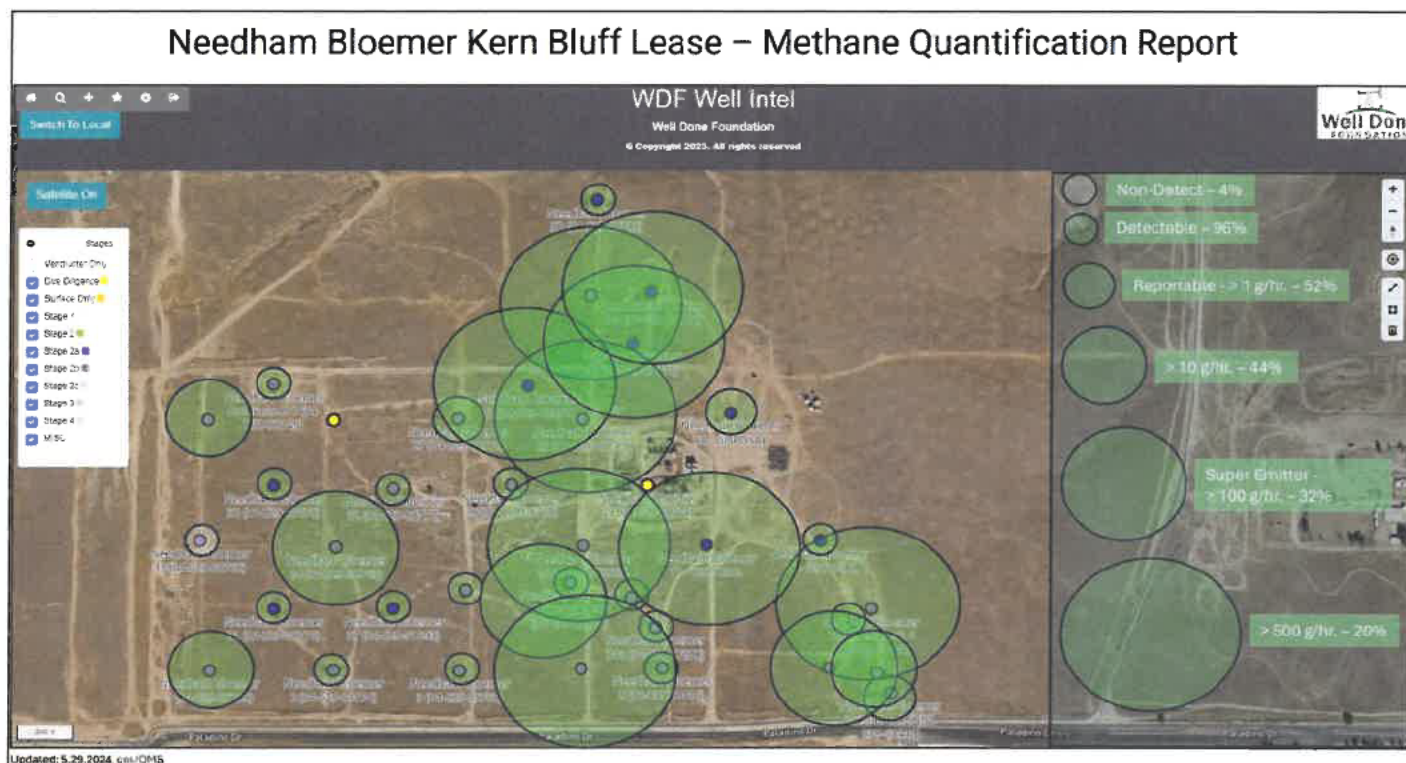


Image 6.2 – Field Methane Emission Impact Report Summary – Kern Bluff Field, Kern County, CA.

¹⁴ Needham Bloemer #001 (04-029-08759) Pre Plug Report, attached.

¹⁵ CSAU Field Averaging Report Summary, attached.

Post Plugging Methane Measurement and Reporting

Once an orphan well has been plugged, the Well Done Team begins the process of post plugging methane measurement. Typically, the test is taken after 48+ hours the final cementing operations have been completed, to allow the dispersion of any ambient emissions from the well plugging.

The Post Plugging Test consists of taking field gas readings using handheld methane detection devices at the plugged wellbore and in the immediately adjacent areas. Air/Gas samples are collected for laboratory analysis. Water testing may be employed for visual signs of any leakage.

A SEMTECH® Hi-Flow2 gas analyzer is used to perform an ACR Method, 5-Minute continuous Post Plug Test:



Image 7.1: Post Plug Sampling



Image 7.2: Post Plug sampling after cutoff



Image 7.3: Field Verification – Post Plug

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

Statistics

	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

Image 7.4: SEMTECH® Hi-Flow2 Post Plug Report

Post plugging methane test results¹⁶ and emissions reduction reports¹⁷, along with photo images of the process, are made immediately available to the Utah Team upon completion and are uploaded to the Well Done Well Intel© platform.

C6+ Gas Analysis Report

186746 CSAU #587 Post Plug CSAU #587

Sample Point Code Sample Point Name Sample Point Location

Laboratory Services 2023076537 BAG CES - Spot

Source Laboratory Lab No Container Identity Sampler

USA USA USA New Mexico

District Area Name Public Name Facility Name

Sep 30, 2023 19:05 Sep 30, 2023 19:05 Oct 2, 2023 15:11 Oct 10, 2023

Date Sampled Date Effective Date Received Date Reported

System Administrator

Ambient Temp (°F) Pipe Risk (RIS) Analyst Press PSI @ Temp °F Source Comments

Well Done Foundation Operator

Lab Source Description

Component	Normalized Mol %	Un-Normalized Mol %	GRM
H2S (H2S)	0.0000	0	
Nitrogen (N2)	99.3410	99.341	
CO2 (CO2)	0.0630	0.063	
Methane (C1)	0.0000	0	
Ethane (C2)	0.2630	0.263	0.0700
Propane (C3)	0.1950	0.195	0.0540
i-Butane (iC4)	0.0410	0.041	0.0130
n-Butane (nC4)	0.0670	0.067	0.0210
i-Pentane (iC5)	0.0000	0	0.0000
n-Pentane (nC5)	0.0000	0	0.0000
Hexanes Plus (C6+)	0.0000	0	0.0000
TOTAL	100.0000	100.0000	0.1480

Gross Heating Values (Btu, BTU/lb)

14,204 PSI @ 60.00°F 14,733 PSI @ 60.00°F

Dry Column Dry Saturated

14.1 14.8 14.1 14.8

Calculated Total Sample Properties

GRAMS PER LITRE * Calculated at Standard Conditions

Relative Density (air)

0.9701

Relative Density (air)

0.9702

Molecular Weight

28.1010

C6+ Group Properties

Assigned Compositions

C6 - 60.000% C7 - 30.000% C8 - 10.000%

PROFRIEND STATUS:

Passed By Validator on Oct 10, 2023

DATA SOURCE:

Imported

PAIRED BY VALIDATOR REASON:

First sample taken @ this point, composition looks reasonable

VALIDATOR:

Luis Cano

VALIDATOR COMMENTS:

OK

Analyzer Information

Device Type: Device Make: Last Cal Date:

Source Date Notes

Luis Cano Oct 10, 2023 3:58 pm METHANE=0

Image 8.1 – CSAU #587 Post Plug Gas Analysis.

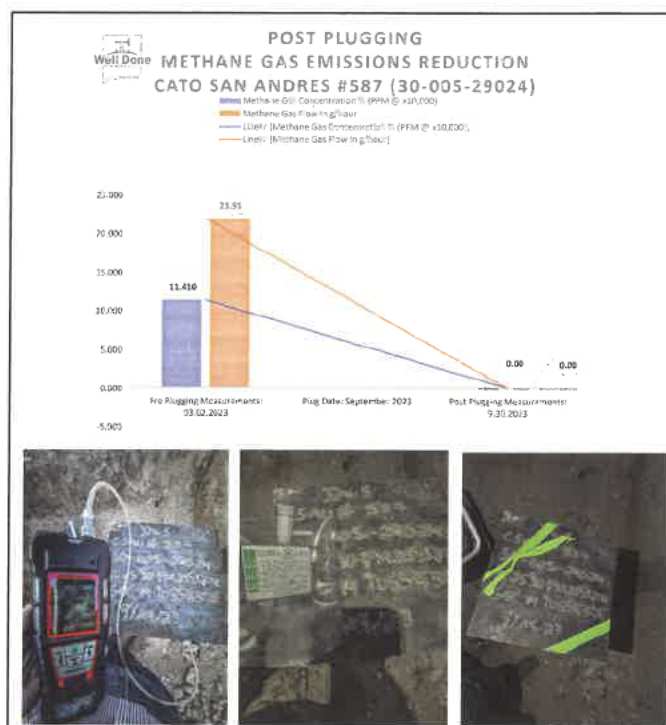


Image 8.2 – CSAU #587 Post Plug Methane Emissions Reduction Report.

During the Post Plug Methane Testing process, if any Methane is detected, the protocol is to re-test and immediately rig up a Ventbuster® to the well casing to calculate a Methane flow rate and notify WVDEP.

Conclusion

The Well Done Team leads the way in orphan and marginal conventional well Methane Quantification. Well Done has developed the preceding processes and procedures over the past Five (5) + years, and thousands of wells tested to safely, efficiently and economically execute the work, using the WDF Well Intel© IoT Platform as a reporting and project management tool that is fully accessible to our customers and their stakeholders.

¹⁶ CSAU #587 Post Plugging Gas Analysis, attached.

¹⁷ CSAU #587 Post Plugging Methane Emissions Reduction Report, attached.

**Well Done Foundation Pre & Post Plugging Procedure Compliance Checklist:
WVDEP Pre and Post Plugging Measurement of Methane Emissions and Other Gasses Review
to U.S. Department of Interior's Methane Measurement Guidelines dated July 2023**

July 2024

Bipartisan Infrastructure Law (BIL) or IJA Requirement		Well Done Methods
Ground Based Technology w/ <1 gram per hour capability		Yes – Included in Standard WDF Well Report & WDF Well Intel© IoT
Qualified Measurement Specialist Requirement		Yes – QMS Certification Required and Provided
Method of Measurement & Calculation for methane quantification specifically requires a QMS to measure Concentration and Flow: (WDF & VBI pg. 8 – Footnote 1)		Yes – QMS Certification Required and Provided
Database & Database Interface (pg. 16)		Yes – WDF Well Intel© IoT + Agency Spreadsheet
Well Screening & Gas Detection Equipment (pg.19)		Yes – RKI GX600 Detector + Laboratory Gas Analysis for any well with CH4 detection
Background Screening (pg.20)		Yes – Using Hi Flow Sampler
Reporting (pg.21)		Yes – WDF Pre Plug Methane Quantification Reports & WDF Well Intel© IoT
Pre Plug Methane Quantification methods conform with ACR (pg. 22)		Yes – 6 hour minimum period of measurement to establish a 2-hour normalized flow, per ACR
Pre Approval of instrumentation and approach (pg.22)		Yes – WDF DOI Approved (pg.8 – Footnote 1) of Ventbuster® and SEMTECH® Hi-Flow2
Qualified Measurement Specialist Requirement (pg.22)		Yes – Required and Documented in Standard WDF Well Report & WDF Well Intel© IoT and confirmed by QMS
Operating Conditions (pg.23)		Yes – Equipment is Certified for Hazardous Area Use by Manufacturer and confirmed by QMS
Minimum Detection Limits (pg.23)		Yes – Equipment Meets/Exceeds DOI Requirement and confirmed by QMS

Bipartisan Infrastructure Law (BIL) or IIJA Requirement		Well Done Methods
Precision (pg.23)		Yes – Equipment Meets/Exceeds Requirement, as confirmed by QMS
Accuracy (pg.23)		Yes – Equipment Meets/Exceeds Requirement, as confirmed by QMS
Documentation (pg.23)		Yes – Equipment Meets/Exceeds Requirement, as confirmed by QMS
QA/QC (pg.23)		Yes – ATLAS performs the QA/QC Function
Units of Measure – grams/hour (pg.24)		Yes – As confirmed by QMS
Reporting Non-Detects (pg.24)		Yes – Included in Standard WDF Well Report & Well Intel© IoT and confirmed by QMS
Preferred protocol when infrastructure is present (pg.24)		Yes – WDF Includes three (3) standard protocols, approved by ACR, recognized by DOI: a. Open Hole b. Production Tubing c. Casing
Recording multiple leaks (pg. 24)		Yes – Included in Standard WDF Well Report & WDF Well Intel© IoT
Selecting measurement equipment and methods (pg.24)	Yes – HiFlow Sampler (not Hazardous Area Certified)	Yes – Ventbuster (Hazardous Area Certified)
Data Collection (pg.24)		Yes – Included in Standard WDF Well Report & WDF Well Intel© IoT
QA/QC: Demonstrating precision(pg.24)		Yes – There is a 5% additional sampling required and confirmed by QMS
QA/QC: Demonstrating accuracy (pg. 25)		Yes – Laboratory Precisions and Calibrations are documented
Exceptional Circumstances (pg.25)		Yes – Included in Standard WDF Well Report & WDF Well Intel© IoT and confirmed by QMS
What to Record (pg.27)		Yes – Included in Standard WDF Well Report & WDF Well Intel© IoT and confirmed by QMS

Bipartisan Infrastructure Law (BIL) or IIJA Requirement		Well Done Methods
Field Reports (pg.27)		Yes – Included in Standard WDF Well Report & WDF Well Intel© IoT prepared by QMS
Audits (pg. 28)		Yes - Available Upon Request and confirmed by ATLAS