
REQUEST FOR PROPOSAL (RFP)

Drone-Based Magnetometer Survey, GIS Mapping, and Field Verification of Abandoned Oil and Gas Well Assets

Kiowa Tribal Land Jurisdiction

RFP Number: **KT-26-015-NR**

Issue Date: 8/25/2026

Proposal Due Date: **9/18/2026**

Issuing Organization: Kiowa Tribe [Kiowa Orphan Oil and Gas wells program]

Project Location: Kiowa Tribal Jurisdictional Lands

1. INTRODUCTION AND PURPOSE

The Kiowa Tribe (“Kiowa”) is seeking qualified contractors to provide unmanned aerial vehicle (UAV/drone)-based magnetometer survey services to identify, locate, and characterize abandoned, orphaned, undocumented, or otherwise unknown oil and gas well assets located within Kiowa’s land jurisdiction.

The purpose of this project is to develop an accurate inventory of potential abandoned oil and gas infrastructure through advanced aerial geophysical detection methods, integrate findings into Kiowa’s Geographic Information System (GIS) database, verify assets through targeted field investigations, and evaluate potential environmental risks associated with identified well sites.

The selected contractor shall provide a comprehensive technical approach utilizing drone-mounted magnetometer technology, GIS mapping, historical well record correlation, field verification, and environmental impact assessment.

2. PROJECT OBJECTIVES

The primary objectives of this RFP are to:

1. Identify undocumented or abandoned oil and gas well locations within Kiowa jurisdictional lands.

2. Detect buried or obscured well casings and associated metallic well infrastructure using drone-based magnetometer technology.
 3. Correlate detected assets with known oil and gas records, including:
 - API well identification numbers
 - State and federal databases
 - Historical production records
 - Existing tribal records
 4. Develop accurate GIS mapping products compatible with Kiowa's existing GIS systems.
 5. Conduct field verification of detected anomalies through ground truthing, including excavation where appropriate and authorized.
 6. Assess asset integrity and potential environmental impacts associated with identified wells.
 7. Provide Kiowa with a comprehensive digital and written final report documenting all findings.
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3. SCOPE OF WORK

Task 1 – Project Planning and Data Review

The selected contractor shall:

- Conduct a project kickoff meeting with Kiowa representatives.
- Review available existing well records, historical documents, GIS layers, and known API databases.
- Identify survey areas and establish flight priorities.
- Develop a detailed survey plan, including:
 - Drone flight paths
 - Survey grid spacing
 - Magnetometer collection methodology
 - Safety protocols
 - Data processing procedures

The contractor shall coordinate with Kiowa personnel to ensure all required access permissions and flight clearances are obtained prior to field activities.

Task 2 – Drone-Based Magnetometer Survey

The contractor shall perform aerial geophysical surveys utilizing drone-mounted magnetometer equipment capable of detecting subsurface metallic features associated with oil and gas wells.

Survey activities shall include:

- UAV-based magnetic anomaly detection.
- Identification of potential:
 - Well casings
 - Buried wellheads
 - Plugged wells
 - Abandoned well infrastructure
 - Associated metallic components
- High-resolution positioning using GPS/RTK-enabled systems.
- Complete documentation of:
 - Flight paths
 - Survey boundaries
 - Data collection parameters
 - Weather and operational conditions

The contractor shall provide processed magnetic survey data and interpretation of detected anomalies.

Task 3 – GIS Mapping and Data Integration

The contractor shall develop GIS-compatible deliverables suitable for direct integration into Kiowa's tribal GIS platform.

GIS deliverables shall include:

- Location coordinates for all detected assets.
- Spatial database files compatible with Kiowa systems.
- ESRI-compatible formats, including:
 - Shapefile (.shp)
 - GeoJSON
 - File Geodatabase (.gdb), if applicable
 - KMZ/KML files
- Metadata documentation.
- Survey coverage maps.
- Accuracy estimates for all identified locations.

Each identified asset shall include attribute information including, but not limited to:

- Latitude/Longitude coordinates.
- Elevation data.
- Detection confidence rating.
- Associated API number (where available).

- Historical ownership/operator information.
 - Well status (active, plugged, abandoned, unknown).
 - Survey date.
 - Field verification status.
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Task 4 – API Number Correlation and Historical Research

The contractor shall compare identified locations against available records, including:

- State oil and gas regulatory databases.
- Federal well databases.
- Historical lease records.
- Existing tribal records.
- Previous environmental studies.

For each identified asset, the contractor shall provide:

- API number correlation.
 - Record verification status.
 - Historical well information.
 - Discrepancies between recorded and observed conditions.
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Task 5 – Field Verification and Ground Truthing

Following aerial survey analysis, the contractor shall conduct targeted field investigations to verify identified anomalies.

Field verification shall include:

- Site visits to priority locations.
- Visual confirmation of surface indicators.
- GPS confirmation.
- Photographic documentation.
- Assessment of existing conditions.

Where authorized by Kiowa, verification may include:

- Limited excavation to confirm well casing presence.
- Exposure of buried well infrastructure.
- Confirmation of wellhead location.
- Documentation of casing condition.

All excavation activities shall comply with applicable safety, cultural resource, environmental, and land access requirements.

Task 6 – Asset Integrity Assessment

The contractor shall evaluate identified assets for integrity concerns, including:

- Visible wellhead condition.
- Signs of corrosion or failure.
- Evidence of improper abandonment.
- Surface leakage indicators.
- Potential methane emissions pathways.
- Soil disturbance.
- Environmental hazards.

Each asset shall receive an integrity rating:

- High Risk
 - Moderate Risk
 - Low Risk
 - No Immediate Concern
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Task 7 – Environmental Impact Assessment

The contractor shall provide an environmental assessment of identified well sites, including:

- Potential methane emissions concerns.
- Hydrocarbon contamination indicators.
- Surface impacts.
- Vegetation impacts.
- Soil impacts.
- Water resource concerns.
- Wildlife habitat considerations.

The contractor shall identify recommended actions, including:

- Additional investigation.
 - Monitoring.
 - Remediation.
 - Plugging and abandonment activities.
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4. DELIVERABLES

The selected contractor shall provide:

Technical Report

A final report including:

- Executive summary.
 - Project methodology.
 - Survey area description.
 - Drone survey results.
 - Magnetometer findings.
 - GIS mapping results.
 - API correlation results.
 - Field verification results.
 - Asset integrity assessments.
 - Environmental impact evaluations.
 - Recommendations and prioritization.
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GIS Deliverables

Digital GIS database containing:

- All identified assets.
 - Verified well locations.
 - Unverified anomalies.
 - Survey boundaries.
 - Flight paths.
 - Supporting metadata.
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Field Documentation

Including:

- Photographs.
 - GPS points.
 - Excavation records (where applicable).
 - Field notes.
 - Verification forms.
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Final Presentation

The contractor shall provide a presentation to Kiowa leadership and technical staff summarizing:

- Findings.
 - High-risk locations.
 - Recommended next steps.
 - Potential remediation priorities.
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5. CONTRACTOR QUALIFICATIONS

Interested contractors shall demonstrate:

- Experience conducting UAV-based geophysical surveys.
 - Experience using drone magnetometer systems.
 - Oil and gas well identification experience.
 - GIS database development experience.
 - Knowledge of orphan well programs.
 - Environmental assessment experience.
 - Experience working with tribal, federal, or protected lands.
 - Appropriate FAA UAV certifications.
 - Qualified personnel for field verification and excavation activities.
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6. SAFETY, ACCESS, AND COMPLIANCE REQUIREMENTS

The contractor shall:

- Obtain and maintain all required drone flight approvals.

- Coordinate all flight operations with Kiowa.
 - Follow FAA Part 107 requirements or applicable regulations.
 - Maintain appropriate insurance coverage.
 - Follow tribal land access requirements.
 - Protect cultural resources and sensitive areas.
 - Provide site safety plans prior to field activities.
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7. PROPOSAL REQUIREMENTS

Proposals shall include:

1. Company qualifications.
 2. Relevant project experience.
 3. Proposed technical approach.
 4. Drone and magnetometer equipment specifications.
 5. GIS capabilities.
 6. Field verification methodology.
 7. Project schedule.
 8. Staffing plan.
 9. Quality assurance procedures.
 10. Cost proposal.
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8. TERO REQUIREMENTS

Section 3-201(a) of the 2025 Tribal Employment Rights Office Ordinance Act (KL-CY-2025-011), Indian Preference in Contracting, requires the Tribe and all Government Commercial Enterprises, when awarding contracts or subcontracts for supplies, services, labor and materials in an amount of \$5,000 or more where the majority of the work will occur within the jurisdiction of the Tribe, to give preference to Entities certified by the TERO Director as 51% or more Indian-owned.

Section 2-201(a), Employment Rights Fee, requires every Entity or department with a construction or professional services contract in the amount of \$1,000 or more to pay the Commission a TERO Fee of three percent (3%) of the total contract amount. The TERO Fee is built into the contractor's bid total and is due in full prior to commencement of work. For good cause shown, the TERO Director may authorize payment in installments over the course of the contract.

9. EVALUATION CRITERIA

Proposals will be evaluated based on:

Criteria	Weight
Relevant experience	25%
Technical approach and methodology	25%
GIS and data integration capability	15%
Experience with oil and gas assets	15%
Cost proposal	10%
Tribal/federal land experience	10%

10. PROJECT SCHEDULE

Anticipated Schedule:

Milestone	Date
RFP Issued	8/26/2026
Proposal Deadline	9/18/2026
Contractor Selection	TBD
Project Kickoff	TBD
Drone Survey Completion	TBD
Field Verification	TBD
Final Report Submission	TBD

11. CONTACT INFORMATION

Proposals must be submitted to the Kiowa Tribe Oil and Gas / Orphan Wells Program (Burke Thompson) via email at bthompson@kiowatribe.org, no later than September 18, 2026, by 4:00 PM CST.

Kiowa Tribe

Kiowa Tribe Oil and Gas / Orphan Wells Program

Burke Thompson

bthompson@kiowatribe.org

580-375-8420