
REQUEST FOR PROPOSAL

RFP NUMBER: CSP904016
INDEX NUMBER: MAC110
UNSPSC CATEGORY: 71141100

The State of Ohio, through the Department of Administrative Services, Office of Procurement Services, on behalf of the Ohio Department of Natural Resources (ODNR), Division of Oil and Gas Resource Management (DOGRM), is requesting Proposals for:

ORPHAN WELL – OIL AND GAS WELL PLUGGING PROJECTS

OBJECTIVE: The State is seeking to prequalify Contractors who are interested in providing the Ohio Department of Natural Resources, Division of Oil & Gas Resources Management, services for plugging, and restoration in connection with orphan well plugging projects. As used herein, “plugging” and “plugging projects” include the plugging of wells and the restoration of the land surface disturbed by plugging.

RFP ISSUED: April 25, 2016
INQUIRY PERIOD BEGINS: April 25, 2016
MANDATORY PRE-PROPOSAL MEETING: May 02, 2016 at 11:00 AM
INQUIRY PERIOD ENDS: May 16, 2016 at 8:00 AM
PROPOSAL DUE DATE: May 25, 2016 by 1:00 PM

Proposals received after the due date and time will not be evaluated.

Submit Sealed Proposals to:

Department of Administrative Services
Office of Procurement Services
CSP904016 MAC110
Attn: Bid Desk
4200 Surface Road
Columbus, OH 43228-1395

Note: Please review the [Proposal Instructions](#) on our Web site.

The Offeror must submit this cover page (signed) with its Technical Proposal.

Offeror Name and Address: _____ _____ _____ _____ E-Mail Address: _____ Phone Number: () _____ - _____ Ext. _____	Name/Title: _____ _____ Signature: _____ By submitting a response to this RFP, and signing above, Offeror acknowledges, understands and agrees to comply with the RFP requirements and confirms all the instructions and links have been read and understood.
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RFP GLOSSARY OF TERMS

AA:	Affirmative Action
Contractor:	Vendor after Award
CSP:	Competitive Sealed Proposal
DAS:	Department of Administrative Services
DOGRM	Division of Oil and Gas Resource Management
EOD:	Equal Opportunity Division
FEI:	Federal Employer Identification
Mandatory:	Must, Will, Shall
OAC:	Ohio Administrative Code
OAKS:	Ohio Administrative Knowledge System (Ohio's Accounting System)
OBG:	Ohio Business Gateway
Offeror:	Vendor Submitting Proposal
ODNR	Ohio Department of Natural Resources
OPS:	Office of Procurement Services
ORC:	Ohio Revised Code
RFP:	Request for Proposal
SOS:	Secretary of State
UNSPSC:	The United Nations Standard Products and Services Code

CALENDAR OF EVENTS.

This RFP gives the dates on page 1 for the various events in the submission process. While these dates are subject to change, prospective Offerors must be prepared to meet them as they currently stand. Detailed instructions regarding dates are as follows:

Firm Dates

RFP Issued:	April 25, 2016
Inquiry Period Begins:	April 25, 2016
Mandatory Pre-Proposal Meeting	May 02, 2016 at 11:00 AM
Inquiry Period Ends:	May 16, 2016 at 8:00 AM
Proposal Due Date:	May 25, 2016 by 1:00 PM

Estimated Dates

Contract Award Notification: To be determined

There are references in this RFP to the Proposal due date. Prospective Offerors must assume, unless it is clearly stated to the contrary, that any such reference means the date and time (Columbus, OH local time) that the Proposals are due. Proposals received after 1:00 p.m. on the due date will not be evaluated.

MANDATORY PRE-PROPOSAL MEETING.

A Pre-Proposal meeting will be held on May 2, 2016 at 11:00 AM at the ODAS/General Service Division Building at 4200 Surface Road, Columbus, OH 43228. All prospective Offerors are required to attend and encouraged to bring any subcontractors or other personnel required for assessing with the proposal.

The purpose of the Pre-Proposal meeting is to discuss the RFP and Project with prospective Offerors and to allow questions arising from initial review of this RFP. Attendance at the Pre-Proposal meeting is a prerequisite to submitting a Proposal. The State will answer questions as possible during the meeting but, reserves the right to take questions under advisement and respond through the inquiry process, afterwards. Offerors are responsible for any and all information exchanged at the meeting and via the Internet inquiry process.

To facilitate accuracy of the Pre-Proposal meeting attendance, please provide the names, organization(s) and telephone numbers of representatives that will attend. Provide this information to: Geraldine Berry, Ohio Department of Administrative Services, no later than 4:00 PM, April 28, 2016 by email to: geraldine.berry@das.ohio.gov or by phone at 614-644-1790.

1.0 EXECUTIVE SUMMARY

- 1.1 INTRODUCTION This is a Request for Competitive Sealed Proposals (RFP) under Section 125.071 of the Ohio Revised Code (ORC) and Section 123:5-1-08 of the Ohio Administrative Code (OAC). The Department of Administrative Services (DAS), Office of Procurement Services, on behalf of the Ohio Department of Natural Resources (the Agency), is soliciting competitive sealed proposals (Proposals) for Orphan Well – Oil and Gas Plugging Projects. If a suitable offer is made in response to this RFP, the state of Ohio (State), through DAS, may enter into a contract (the Contract) which will enable the selected Contractors to be eligible to bid on all or part of plugging projects (the Work). This RFP provides details on what is required to submit a Proposal to qualify as a Contractor for the Work.

This RFP gives the dates on page 1 for the various events in the submission process. While these dates are subject to change, prospective Offerors must be prepared to meet them as they currently stand.

- 1.2 CONTRACT PERIOD Once awarded, the term of the Contract will be from the award date through December 31, 2019. The State may solely renew all or part of this Contract at the discretion of DAS for a period of one month and subject to the satisfactory performance of the Contractor and the needs of the Agency. Any other renewals will be by mutual agreement between the Contractor and DAS for any number of times and for any period of time. The cumulative time of all mutual renewals may not exceed forty-eight (48) months and are subject to and contingent upon the discretionary decision of the Ohio General Assembly to appropriate funds for this Contract in each new biennium.
- 1.3 MULTIPLE AWARD CONTRACT This RFP is issued to establish a Multiple Award Contract (MAC). A MAC is a contract made with more than one supplier of the same or similar types of supplies or services at varying prices for delivery within the same geographic area. The state's obligations under a MAC are subject to the Ohio Controlling Board's continuing authorization to use the MAC program authorizing the use of Multiple Award Contracts.
- 1.4 BACKGROUND The Agency is responsible for regulating Ohio's oil and natural gas industry and for the protection of all Ohioans and our environment while ensuring the state's abundant natural resources are managed properly. "Idle and orphaned well" means a well for which a bond has been forfeited or an abandoned well for which no money is available to plug the well in accordance with ORC 1509 and rules adopted under it. The plugging projects on which selected Contractors may be requested to submit bids will involve oil and gas wells which have been deemed by the Agency to be idle and orphaned wells ("Orphan Wells"), and that will be plugged with monies from bonds that have been forfeited and/or monies from the Oil and Gas Well Fund. These Orphan Wells will vary in geographical area, depth and condition. A site specific Scope of Work, listing the Agency's plugging requirements for each Orphan Well will be provided to the prequalified Contractors for each plugging project.
- 1.5 OFFEROR QUALIFICATIONS The State will prequalify contractors with experience plugging oil and gas wells in the State of Ohio and neighboring states. The prequalified contractors will be notified of the bid opportunities of new site specific well projects by the Agency representative(s) detailing well specifications and plugging requirements. The State may limit bidding on projects to bidders who have performed plugging services on similar types of wells in similar geographic areas and have the equipment and personnel necessary to successfully complete the Work.

The Contractor shall furnish all labor, materials, utilities, equipment, permits, tools, services and operations required to complete the plugging of orphan wells throughout Ohio. The Agency will establish property titles to all orphan wells listed in the project. The Contractor shall complete all activities requested by the Agency's requirements in a professional manner and as described in the Contractor's work plan. A Contractor shall maintain the quality of workmanship at a high standard while meeting schedule timelines.

All Contractors must have an in-depth knowledge and the proper equipment to perform the procedures that are applicable to plugging wells within the State of Ohio, including, but not limited to knowledge of the following:

1. Oil/gas well site evaluation in order to concisely and accurately determine the costs of the Work;
2. Oil/gas well site construction in order to prepare the well site for plugging, including safe and proper welding, excavating and grading methods;
3. Oil/gas well construction, including casing and production equipment, oil and brine storage equipment and equipment related to natural gas production and sales;

4. Oil/gas well plugging methods, including the different types of equipment and/or materials that were historically used to plug oil and gas wells such as tapered plugs, steel or granite balls, brush and stone plugs, and clay. Additionally, extensive knowledge of the methods to remove these and other obstructions from the well bore including drilling/milling/fishing procedures;
5. Oil/gas well casing installation and cementing procedures including the use of bridge plugs, packers, centralizers and cement baskets.
6. Oil/gas well plugging procedures, including an extensive knowledge of current plugging methods and equipment involving the use of grout, cement and /or clay;
7. Oil/gas well equipment decommissioning and salvage involving pumping equipment, oil and brine storage tanks, separators, flow and sales lines and well casing, tubing, rods and associated equipment.
8. Oil/ gas well site restoration procedures, including proper grading, sedimentation control, seeding and mulching methods;
9. Oil/gas well site remediation due to petroleum releases at the site including the proper storage, transportation and disposal of petroleum impacted soil and fluid caused by a release at the well site;

All work must be performed in accordance with ORC Chap. 1509, OAC Chap. 1501:9 and contracts with the Agency. The Contractor and/or subcontractors will obtain, and keep in effect, all permits, licenses and certifications required to perform the Work.

Subject to the Contractor's compliance with the site specific Scope of Work, the Contractor will be solely responsible for and will have control over all plugging and construction means, methods, manners, techniques, sequences, procedures, safety precautions and programs. The general scope of work for all plugging projects is attached hereto as Supplement One (1).

- 1.6 CONFIDENTIAL, PROPRIETARY OR TRADE SECRET INFORMATION DAS procures goods and services through a RFP in a transparent manner and in accordance with the laws of the state of Ohio. All proposals provided to DAS in response to this RFP become records of DAS and as such, will be open to inspection by the public after award unless exempt from disclosure under the Ohio Revised Code or another provision of law. Refer to section 5.1.6 in the Instructions.
- 1.7 REGISTRY OF OFFERORS DAS will prepare a registry of Proposals containing the name and address of each Offeror. The registry will be on the Office of Procurement Services Web site and available for public inspection after the Proposals are received.
- 1.8 PROPOSAL SUBMITTAL Offeror must submit a "Technical Proposal" (see 2.5 Table 3) as a part of its Proposal package. The technical proposal shall be submitted in a sealed envelopes/packages, clearly identified on the exterior as a "Technical Proposal" with CSP904016 and due date on each. Offeror must submit this signed cover page with its Technical Proposal. Offeror shall mark the correct CSP ("Competitive Sealed Proposal") number on all envelopes/packages. Refer to section 5.1.5 in the Instructions for further detail.
- 1.9 NUMBER OF PROPOSALS TO SUBMIT Offeror must submit one (1) original, completed and signed in blue ink, and four (4) copies for a total of five (5) Proposal packages. Additionally, Offeror shall submit two (2) electronic copies of the Proposal package on USB memory sticks.

2.0 EVALUATION OF PROPOSALS

- 2.1 MANDATORY REQUIREMENTS The following table contains items that are Mandatory Requirements for this RFP.

Determining the Offeror's ability to meet the Mandatory Requirements is the first step of the DAS evaluation process. The Offeror's response must be clearly labeled "Mandatory Requirements" and collectively contained in Tab 2 of the Offeror's Proposal in the "Offeror Required Information and Certification" section.

DAS will evaluate Tab 2 alone to determine whether the Proposal meets all Mandatory Requirements (accept/reject). If the information contained in Tab 2 does not clearly meet every Mandatory Requirement, the Proposal may be disqualified by DAS from further consideration.

TABLE 1 - MANDATORY PROPOSAL REQUIREMENTS

Mandatory Requirements	Accept	Reject
1. The Offeror must have at least five (5) years of experience in the drilling, completion, production and/or plugging of oil and gas wells.		
2. The Offeror must have sufficient personnel employed or through subcontractors to perform all tasks essential for the plugging of oil and gas wells.		
3. The Offeror must provide references for at least five (5) oil/gas well plugging jobs they have successfully completed in Ohio and/or neighboring states within the past two (2) years.		
4. The Offeror has ready access to the equipment generally utilized in the plugging of oil/gas wells and site restoration.		

If the State receives no Proposals meeting all of the mandatory requirements, the State may elect to cancel this RFP.

2.2 **PROPOSAL EVALUATION CRITERIA** If the Offeror provides sufficient information to DAS in its Proposal, demonstrating it meets the Mandatory Requirements, the Offeror's Proposal will be included in the next step of the evaluation process which involves the scoring of the Proposal Technical Requirements (Table 3). In the Proposal evaluation step, DAS rates the Proposals based on the following listed criteria and the weight assigned to each criterion. The possible points allowed in this RFP are indicated in Table 2 - Scoring Breakdown.

2.3 **TABLE 2 - SCORING BREAKDOWN**

Criteria	Maximum Allowable Points
Proposal Technical Requirements	500 Points
Proposal Cost Requirements	50 Points
Total	550 Points

2.4 **SCORE RATINGS** The scale below (0-5) will be used to rate each proposal on the criteria listed in the Technical Proposal Evaluation table.

DOES NOT MEET 0 POINTS	WEAK 1 POINT	WEAK TO MEETS 2 POINTS	MEETS 3 POINTS	MEETS TO STRONG 4 POINTS	STRONG 5 POINTS
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DAS will score the Proposals by multiplying the score received in each category by its assigned weight and adding all categories together for the Offeror's Total Technical Score in Table 3. Representative numerical values are defined as follows:

DOES NOT MEET (0 pts.): Response does not comply substantially with requirements or is not provided.

WEAK (1 pt.): Response was poor related to meeting the objectives.

WEAK TO MEETS (2 pts.): Response indicates the objectives will not be completely met or at a level that will be below average.

MEETS (3 pts.): Response generally meets the objectives (or expectations).

MEETS TO STRONG (4 pts.): Response indicates the objectives will be exceeded.

STRONG (5 pts.): Response significantly exceeds objectives (or expectations) in ways that provide tangible benefits or meets objectives (or expectations) and contains at least one enhancing feature that provides significant benefits.

2.5 TABLE 3 - TECHNICAL PROPOSAL EVALUATION

Criterion	Weight	Rating (0 to 5)	Extended Score
Offeror Profile /Company Profile (Tab 4 of Proposal)			
<p>1. Offeror Profile – The Offeror must submit a detailed Offeror Profile (Form 5.2.3) that describes the company history, past similar project experience and current capability and capacity to perform the work under this RFP.</p> <p>In addition, please include the following:</p> <ul style="list-style-type: none"> • Number of years of experience in plugging oil/gas wells in the State of Ohio and/or neighboring states. • List the oil/gas wells (minimum of two (2) plugged in the past two (2) years specifying the location and depth of each well and the person or entity with whom the Offeror contracted for the plugging of each well. • List of any unresolved compliance matters initiated by ODNR, the Ohio Environmental Protection Agency, the Ohio Bureau of Workers Compensation, the Ohio Department of Taxation or any other department or agency of the State of Ohio against Offeror. 	25		
Offeror Prior Projects (Tab 5 of Proposal)			
<p>2. For each of the oil/gas well plugging jobs listed in the Offeror Profile, the Offeror must complete SUPPLEMENT ONE - TABLE S1.1 COMPLIANCE WITH GENERAL SCOPE REQUIREMENTS IN REFERENCE WELLS, indicating the level of compliance with each of the General Scope of Work requirements. Additionally, the Offeror shall submit an Offeror's Reference form (Form 5.2.5) for at least three of the persons or entities for whom Offeror performed well plugging services, as listed in Form 5.2.3.</p>	25		
Personnel Profile(s)/Offeror's Candidate Profiles(s) (Tab 6 of Proposal)			
<p>3. The Offeror must submit a list of the key, qualified personnel, including a supervisor / project manager / rig operator, which would be involved in the Work. The key staff must have experience with projects of a similar size, scope and nature to this RFP's requirements. The list of key personnel must include a brief description of each key person's experience in plugging wells and performing restoration work, and licenses which may relate to the plugging of wells and/or performing restoration work.</p>	25		
Offerors Qualifications (Tab 7 of Proposal)			
<p>4. The Offeror must fully list:</p> <ul style="list-style-type: none"> • Those items of equipment generally used in the plugging of wells and site restoration to which the Offeror has immediate and exclusive access. (Please indicate for each item of equipment whether it is owned, leased or subcontracted.) • All subcontractors generally utilized in performing oil/gas well plugging and/or well site restoration. The list of generally utilized subcontractors should include their name, tax identification number, phone number, email address and mailing address. A brief description of the work that the subcontractor generally performs, and the subcontractor's experience in performing such work should be provided. 	25		

Total Technical Score: _____

- 2.6 COST PROPOSAL POINTS DAS will use the information the Offeror submits on the Cost Summary Form to calculate Cost Proposal Points. DAS will calculate the Offeror's Cost Proposal points after the Offeror's total technical points are determined, using the following method:

Cost points = (lowest Offeror's cost/Offeror's cost) x Maximum Allowable Cost Points as indicated in the "Scoring Breakdown" table. "Cost" = (analyst to complete, such as Total Not-to-Exceed) identified in the Cost Summary section of Offeror's Proposal. In this method, the lowest cost proposed will receive the maximum allowable points.

The number of points assigned to the cost evaluation will be prorated, with the lowest accepted Cost Proposal given the maximum number of points possible for this criterion. Other acceptable Cost Proposals will be scored as the ratio of the lowest Cost Proposal to the Proposal being scored, multiplied by the maximum number of points possible for this criterion.

An example for calculating cost points, where Maximum Allowable Cost Points Value = 60 points, is the scenario where Offeror X has proposed a cost of \$100.00. Offeror Y has proposed a cost of \$110.00 and Offeror Z has proposed a cost of \$120.00. Offeror X, having the lowest cost, would get the maximum 60 cost points. Offeror Y's cost points would be calculated as \$100.00 (Offeror X's cost) divided by \$110.00 (Offeror Y's cost) equals 0.909 times 60 maximum points, or a total of 54.5 points. Offeror Z's cost points would be calculated as \$100.00 (Offeror X's cost) divided by \$120.00 (Offeror Z's cost) equals 0.833 times 60 maximum points, or a total of 50 points.

Cost Score: _____

- 2.7 FINAL STAGES OF EVALUATION The Offeror with the highest point total from all phases of the evaluation (Technical Points + Cost Points) will be recommended for the next phase of the evaluation.

Technical Score: _____ + Cost Score: _____ = Total Score: _____

If DAS finds that one or more Proposals should be given further consideration, DAS may select one or more of the highest-ranking Proposals to move to the next phase. DAS may alternatively choose to bypass any or all subsequent phases and make an award based solely on the Proposal evaluation phase.

- 2.8 DISCRETIONARY INTERVIEWS Upon the sole and exclusive discretion of DAS, DAS may conduct interviews of Offerors. Any such interviews will be used in determining scores given to the Offeror.

- 2.9 REJECTION OF PROPOSALS DAS may reject any Proposal that is not in the required format, does not address all the requirements of this RFP, or otherwise not in the interest of the State to consider or to accept. In addition, DAS may cancel this RFP, reject all the Proposals, and seek to do the Work through a new RFP or by other means.

3.0 COST SUMMARY

- 3.1 SUBMISSION The Cost Summary shall be submitted with the Proposal (under separate cover labeled as the Cost Proposal). All prices, costs, and conditions outlined in the Proposal shall remain fixed and valid for acceptance for 120 days, starting on the due date for Proposals. No price change shall be effective without prior written consent from DAS, Office of Procurement Services.
- 3.2 HYPOTHETICAL ORPHAN WELL SITE SPECIFIC SCOPE OF WORK COST PROPOSAL The State will prequalify contractors with experience plugging oil and gas wells. The prequalified contractors will be notified when there is a bid opportunity of a new site specific well project which will detail the well specifications and plugging requirements. The State may limit bidding on the site specific projects to all of the prequalified contractors who have experience on similar types of wells in similar geographic areas and have the equipment and personnel necessary to successfully complete the Work.

The state is providing the conditions at a hypothetical site asking the Offerors to review the site specific material and provide a cost estimate for this hypothetical site. The fictitious orphan well is intended to represent conditions which are likely to be present in a site specific site. The information you will provide in the cost estimate is solely intended for the purpose of evaluation of the cost proposal and assist in contractor selection.

HYPOTHETICAL SITE SCOPE OF WORK
DETAILED WELL SPECIFICATIONS AND PLUGGING REQUIREMENTS

John Smith #1
34-000-6-0000
Any County, Any Township
GPS: 41.000000, -81.000000

Background:

The John Smith #1 is situated on commercial property owned by Smith Mobile Homes, LLC at address: 123 Any Road in Anyville, Any Township, Any County, Ohio. The well is located 180' south of Any Road and 1280' west of Some Road. This former mobile home park has recently had all of the homes removed and is currently vacant property.

Division records on this well date back to a sketch of this well location dated 1973. In 1986, a complaint was filed by a tenant of the mobile home park with the Anyville Fire Department in regard to natural gas odors. This complaint mentions a vented natural gas well located near the complainants' residence, with the vent pipe strapped to the awning on that residence. On April 12, 1999, the Anyville Fire Department was called to assist Bolivia Gas locate the source of natural gas odors in the mobile home park. On April 13, 1999, Mr. Smith filed a complaint of an abandoned gas well with the Division and notified the Division of the work that had been conducted onsite by Bolivia Gas and that the well would be excavated and exposed on April 15, 1999. On April 15th, the area around the vent line was excavated and steel casing was found at a depth of 6'. Gas was seen bubbling outside of this casing. A temporary vault was constructed out of a 55 gallon steel drum and this was installed over the well casing. The vault was equipped with a 2" diameter PVC vent line. In 2007, a permit number was assigned to this well. In June of 2015, the Division was notified by the current property owner that the mobile homes were being removed in order to prepare the property for sale and since the property was vacant, they felt it would be the best time to plug the well. In August of 2015, the Division Orphan Well inspector witnessed the well being exposed by OnTime Well Service, who was contracted by the property owner. The vent line and vault were permanently removed from the well and the exposed casing measured 7" in diameter. A faint odor of natural gas was detected. A weighted line was put into the well and stopped at a depth of 90'. Upon completion of activities, the excavation was left open and the area secured with fencing.

There are no known records for the Smith #1. However, the Ohio Fuel Gas map for this township shows a Clinton well spotted in the approximate location of the Smith #1. This map also shows that numerous other Clinton wells and several Newburg wells have also been drilled in the area. A search of the Division database found drilling records for one well in the area. The records for permit #60001, located 1150' southeast of the Smith #1, show that it was drilled in 1949 to a depth of 2548, in the Clinton formation. Records indicate that this well was deemed dry and abandoned (no data given). Drilling records show the following key formation depths and thicknesses:

- Berea: "No Berea"
- Big Lime: 1030' – 2390'
- 1st Water: 1320' - 1369'
- Salt: 1580'-1682'
- Newburg: 2215'-2310'
- 2nd Water: 2345'
- Clinton: 2498'-2503'
- Total Depth: 2548'

There are no casing or cementing records available for #60001. **For the purposes of this scope of work we will assume that the Smith #1 was drilled to a total depth of 2550' in the Clinton Formation.**

The deepest Underground Source of Drinking Water (USDW) in this area is not mapped. Available data shows that there are numerous private water wells in this area. However, they are not being used due to availability of a municipal water system. These water wells are approximately 70' deep, are cased to approximately 10' and produce water from the black shale at depths. Ranging from 50' to 70'.

Site Preparation:

- 1) The Contractor will access the well site south off of Any Road, at GPS: 41.000001, -81.000001, and onto the paved access to the former trailer park. Follow this access road 150' southeast and then turn southwest (right) and go 200' to the well location on the right.
- 2) The Contractor will provide and install barriers around the work area to prevent unauthorized access. The Contractor will install erosion and sediment controls and is expected to prevent and, if necessary, contain and remediate any spills at the site. The Contractor will have oil sorbent pads and booms on location.
- 3) The Contractor will supply and use steel tanks to collect and store the fluids and cuttings generated from plugging activities. The Contractor will be responsible for the proper transportation to and disposal of all other residual fluid at a Class II injection

well. All cuttings generated by the plugging operations will also be properly transported to and disposed of at an approved facility. The Contractor will provide the Division with documentation of disposal.

- 4) The Contractor will excavate around the existing 7" diameter casing to evaluate its condition. If competent casing is found, the Contractor will install enough casing, of similar diameter, to bring the top of the existing casing to ground level or a suitable working height. Gravel and/or mats may be used in the well area as a base to stabilize the rig. This material will be left in place upon completion of plugging activities.
- 5) The Contractor will install an appropriate well head and an approved method of well control (Flow Diverter) to insure there is control of natural gas and/or fluids generated from the well. The Contractor will establish and maintain well control throughout the entire plugging process. The Contractor will have a minimum of 200 barrels of brine or water-based mud on location to maintain well control.
- 6) The Contractor will provide a portable field toilet on location during plugging operations.

Plugging Procedure:

For the purposes of this scope of work, it is assumed that this well is equipped with a competent string of 7" diameter casing and no other casing or tubing.

- 1) The Contractor will clean out the hole to its total depth (TD) of approximately 2550' or a depth approved by the Division. If an obstruction is encountered in the well bore, the Contractor will identify and/or assess the nature of the obstruction. This assessment may include the use of impression blocks, downhole videography, or other available methods. The Contractor will use milling and/or fishing equipment to remove any obstruction deemed to be an impediment to the plugging operation. Five (5) days (maximum) will be allowed for milling in order to remove obstructions in the hole to achieve TD and payment will be made for services rendered. Five (5) days (maximum) will also be allowed for fishing in order to remove obstructions in the hole to achieve TD and payment will be made for services rendered. Costs for these activities should be included in this bid. The Contractor will evaluate the wellbore conditions and formation depths with the Division inspector throughout the plugging process. Available records show this may be a shot hole and caution should be used in verifying total depth.
- 2) Once total depth has been reached and if the well is static, the Contractor will load the hole and run a Gamma Ray/Caliper/Bond Log to verify total depth of the well, confirm the depth of the 7" diameter casing and the bond behind this casing and confirm formation tops for cementing purposes.
- 3) Once logging is completed and the well is static, the Contractor will run lost circulation material (LCM) and gel prior to plugging to condition the hole. Circulation must be achieved. All free crude oil shall be removed from the wellbore (bailed and/or circulated) prior to setting any plug. All cement plugs will be set through 2" diameter tubing using Class A cement mixed at 15.6 pounds/gallon. The Contractor will use fresh water as a spacer between cement plugs.
- 4) The Contractor will run tubing to as close to TD as possible, set a 500' bottom cement plug and wait on cement to cure a minimum of 12 hours. This cement plug should also cover the Newburg Formation. Several attempts at cementing may be required to achieve a competent bottom plug. Costs for additional cement and LCM should be included in the bid.
- 5) After a competent bottom plug is achieved and the cement has cured, the Contractor will set a 300' plug will be set from 1300' to the Top of the Lime (+/- 1000'). A third plug will be set from a depth of 300' to within 30" of the surface. Actual footages will be based on log data.
- 6) After this surface plug has been allowed to cure, the Contractor will check the cement level and top off with additional cement, if necessary.

Plugged Well Identification:

The Contractor will cut off all casing a minimum of 30" below ground surface and tack-weld a steel plate, a minimum of ¼" thick, to the top of the casing. This plate will have a 3" steel tag with ODNR and the permit number welded onto the plate.

Restoration:

Within 3 working days after the plugging operation is completed, weather permitting, the Contractor will remove all well and plugging-related equipment, fluids, cuttings, and salvaged material from the site and dispose of them properly. The Contractor will provide the Division with documentation of disposal.

Within 15 working days after the completion of plugging operations, weather permitting, the Contractor will rough grade the areas disturbed during the these operations.

Within 30 working days after the completion of plugging operations, weather permitting, the Contractor will finish grade to as close to its original contour as possible and, where applicable, seed and mulch to promote vegetative growth.

COST SUMMARY

RFP TITLE: ORPHAN WELL – OIL AND GAS WELL PLUGGING PROJECTS
 RFP NUMBER: CSP904016
 INDEX NUMBER: MAC110
 UNSPSC CATEGORY: 71141100

Please complete the cost Estimate Document for the Hypothetical Site Specific Work Site Oil and Gas Well Plugging Projects

Cost Estimate
Any County, Any Township
Well Name: John Smith #1
Permit Number: 34-000-0-0000

TD = 2550'- Clinton Formation

Description	Unit Price	Quantity	Unit	Item Total
Mobilization/Demobilization		1	service	\$ -
Safety Services			days	\$ -
Site Construction		1	wellsite	\$ -
Fencing and Protective Barriers		1	service	\$ -
Road Permits		1	service	\$ -
Road Mats			each	\$ -
Trucking - Mats			hours	\$ -
Staging Area Construction			service	\$ -
Well Preparation		1	wellsite	\$ -
Diverter		1	each	\$ -
Rig time			hours	\$ -
Tubing Rental		2550	feet	\$ -
Trucking - Tubing, Collars, Bits			hours	\$ -
Tongs (2"-4.5")		1	service	\$ -
Steel Tank		1	wellsite	\$ -
Frac tank		1	wellsite	\$ -
Trucking - Tanks		6	hours	\$ -
Well Control Fluid		200	bbl.	\$ -
Water truck		16	hrs.	\$ -
Fluid disposal			bbl.	\$ -
Logging (GR/Bond/CCL)		1	wellsite	\$ -
Cement (Class A) - Plugging			sack	\$ -
Cement Mixing/Pumping Charge		2	service	\$ -
Trucking - Soil			hours	\$ -
Contaminated Soil Disposal			ton	\$ -
Contaminated Soil Analysis		1	service	\$ -
Mini Excavator			hours	\$ -
Trucking - Mini			hours	\$ -
Skid Loader			hours	\$ -
Trucking - Skid Loader			hours	\$ -
Welder			hours	\$ -
Additional Labor			hours	\$ -
Vault/Vent Assembly			each	\$ -
Vault/Vent Installation			service	\$ -
Restoration		1	wellsite	\$ -
Sorbent Pads & Booms		1	wellsite	\$ -
Porta john		1	service	\$ -
Total:				\$ -

Description	Unit Price	Quantity	Unit	Item Total
<u>Additional/Contingency Services</u>				
Rig time	_____		hours	\$ -
Mud Pump and Swivel	_____		days	\$ -
Mills	_____	1	service	\$ -
Drill Bit(s)	_____	1	each	\$ -
Collar/Sub Rental	_____		each	\$ -
Fishing Tool Rental	_____	1	service	\$ -
Surface Casing (4.5")	_____		feet	\$ -
Tongs (Surface Casing)	_____		service	\$ -
Cement (Class A)	_____		sack	\$ -
Cement Mixing/Pumping Charge	_____		service	\$ -
Safety Services	_____		days	\$ -
9 Sack Grout	_____		yard	\$ -
Culvert	_____		ft.	\$ -
Stone	_____		ton	\$ -
Topsoil	_____		ton	\$ -
Road Maintenance	_____		hours	\$ -
Driveway Repair	_____		service	\$ -
Safety Services	_____		days	\$ -
Total:				\$ -
TOTAL ENCUMBERANCE:				\$ -

Submitted by: _____

SIGNATURE: _____

DATE: _____

4.0 AWARD OF THE CONTRACT

- 4.1 CONTRACT AWARD DAS intends to award the Contract based on the schedule in the RFP, if DAS decides the Work is in the best interests of the State and has not changed the award date.

DAS expects the Contractor to commence the Work upon receipt of a state issued purchase order. If DAS awards a Contract pursuant to this RFP and the Contractor is unable or unwilling to commence the Work, DAS reserves the right to cancel the Contract and return to the original RFP process and evaluate any remaining Offeror's Proposals reasonably susceptible of being selected for award of the Contract. The evaluation process will resume with the next highest ranking, viable Proposal.

- 4.2 CONTRACT If this RFP results in a Contract award, the Contract will consist of this RFP including the Terms and Conditions, all forms, written addenda to this RFP, the Contractor's accepted Proposal and written authorized addenda to the Contractor's Proposal. It will also include any materials incorporated by reference in the above documents and any purchase orders and amendments issued under the Contract. The general terms and conditions for the Contract are contained in the following link:

<https://procure.ohio.gov/Zip/5.3%20Terms%20and%20Conditions.pdf>

If there are conflicting provisions between the documents that make up the Contract, the order of precedence for the documents is as follows:

1. The one-page Contract Signature Page, Form 5.2.2
2. The RFP, as addended, including the Terms and Conditions;
3. The documents and materials incorporated by reference in the RFP;
4. The Executive Order. EO2011-12K incorporated by reference in the RFP;
5. The Contractor's Proposal, as amended, clarified, and accepted by the State; and
6. The documents and materials incorporated by reference in the Contractor's Proposal.

Notwithstanding the order listed above, amendments issued after the Contract is executed may expressly change the provisions of the Contract. If they do so expressly, then the most recent amendment will take precedence over anything else that is part of the Contract.

5.0 LINKS To be applicable to all Proposals and subsequent award(s), including sections named below.

5.1 Instructions

- 5.1.1 Proposal Instructions
- 5.1.2 Inquiries
- 5.1.3 Protests
- 5.1.4 Addenda to the RFP
- 5.1.5 Proposal Submittal
- 5.1.6 Confidential, Proprietary or Trade Secret Information
- 5.1.7 Waiver of Defects
- 5.1.8 Multiple or Alternate Proposals
- 5.1.9 Addenda to Proposals
- 5.1.10 Proposal Format
- 5.1.11 Evaluation of Proposals
- 5.1.12 Proposal Format and Documentation Required

5.2 Forms

- 5.2.1 Offeror Required Information
- 5.2.2 Contract Signature Page
- 5.2.3 Offeror Profile
- 5.2.4 Offeror Prior Projects
- 5.2.5 Offeror's Candidate References
- 5.2.6 Offeror's Candidate Education, Training, Experience
- 5.2.7 Offeror Performance Form
- 5.2.8 Contractor/Subcontractor Affirmation and Disclosure

5.3 Terms and Conditions

- 5.3.1 Performance and Payment
- 5.3.2 Work and Contract Administration
- 5.3.3 Ownership & Handling of Intellectual Property & Confidential Information
- 5.3.4 Representations, Warranties and Liabilities
- 5.3.5 Acceptance and Maintenance
- 5.3.6 Construction
- 5.3.7 Law & Courts

5.4 ADDITIONAL RESOURCES

EOD Reporting	http://eodreporting.oit.ohio.gov/searchEODReporting.aspx
Office of Budget and Management	http://www.obm.ohio.gov/
Office of Procurement Services	http://procure.ohio.gov/proc/index.asp
Ohio Shared Services	http://www.ohiosharedservices.ohio.gov
Ohio Business Gateway	http://business.ohio.gov/
Ohio Secretary of State	http://www.sos.state.oh.us/SOS/Businesses.aspx

5.5 Adjustments to Instructions

The following provisions of the above-referenced LINKS shall NOT apply to this Request for Proposals:

5.1 Instructions

- 5.1.12 Proposal Format and Documentation Required
 - Item 6 – Staffing Plan (b) (c) (d)
 - Item 7 – Candidate Profile
 - Item 8 – Work Plan
 - Item 9 – Support Requirements
 - Item 11 – Assumptions

5.5 Adjustments to Instructions (contd.)

5.2 Forms

5.2.4 – Offeror Prior Projects

5.2.6 – Offeror's Candidate Education, Training, Experience

All links are subject to change in accordance with state of Ohio laws, Ohio Revised Code, Ohio Administrative Code, Executive Orders or any other updates issued by the state of Ohio, Department of Administrative Services, and the Office of Procurement Services. It is the Offeror's responsibility to read and be aware of any changes, corrections, updates or deletions to any information included in the link(s) above.

- 6.0 Guide for Proposal Submission This guide outlines steps for submission of a Proposal in response to the advertised Request for Proposal. This guide does not contain the complete instructions for preparing and submitting a Proposal and anything stated herein shall not be considered a term or condition of the Contract. The complete instructions can be found in section 5.1.1, Proposal Instructions.
- 6.1 _____ Read the entire document, including all Web site links. Note critical items such as: Mandatory Requirements; goods or services required, submittal date and time; number of copies to submit; contract requirements; reporting requirements; minimum qualifications; read and understand the terms and conditions.
- 6.2 _____ Take advantage of the “question and answer” period specified in the schedule of events. Questions must be submitted on-line in the Inquiry Process as explained in the Instructions.
- 6.3 _____ Follow the format required in the RFP Instructions when preparing the response in chronological order. Provide point-by-point responses to all sections in a clear and concise manner. See section 5.1.3, Proposal Format & Documentation Required.
- 6.4 _____ Use the forms provided; i.e. Signed RFP Cover Page, Offeror Required Information, Contract Signature Page, Offeror Profile and Prior Projects, Key Personnel forms, Disclosure Form, and Cost Summary Form, See section 5.2, Forms.
- 6.5 _____ Provide complete answers/descriptions. Do not assume the State or any evaluation committee member will know what the Offeror’s capabilities are or what items/services the Offeror can provide, even if previously contracted with the State. The Proposals are evaluated based solely on the information and materials provided in the Offeror’s response.
- 6.6 _____ Check the State’s Web site for RFP addenda. It is the responsibility of the Offeror to be aware of additional information posted on the Web.
- 6.7 _____ The following documents may be submitted with the Proposal or within five (5) business days of request from the Office of Procurement Services: Affirmative Action and proof of insurance. No award will be made without this documentation. Offeror’s Proposal may be eliminated from further consideration upon failure to submit within the specified time frame
- 6.8 _____ If not a current vendor of the state of Ohio, the Offeror will download both the W-9 and Vendor Information Form and submit to Ohio Shared Services (OSS) at vendor@ohio.gov. See section 5.4, Additional Resources.
- 6.9 _____ Review and read the RFP Document again to make sure that you have addressed all requirements. Read and understand Supplements, if applicable. Offeror’s original response and the requested copies must be identical and be complete. The copies are provided to the evaluation committee members and used to score the response.
- 6.10 _____ Offeror’s response must be submitted on time. Late Proposals are never accepted. Make sure the response is labeled on the exterior of the envelope/package with the RFP#, due date and Technical Proposal.

SUPPLEMENT ONE

DELIVERABLES

1. Equipment - The Contractor shall provide a work plan with its bid. All equipment listed in the work plan and/or used on State awarded projects will meet or exceed all manufacturer safety requirements and those of local, state, and federal agencies. The manufacturer ratings of all equipment listed in the work plan and/or used on State awarded projects will meet or exceed those required to perform work for each project. The Ohio Department of Natural Resources, Division of Oil & Gas Resources Management ("ODNR") reserves the right to inspect the equipment prior to the Recommendation of Award to assure that the safety and capability requirements have been met.

If a delay in completing the project is caused by a mechanical breakdown of his equipment, the Contractor will repair this equipment in a timely manner. A "mechanical breakdown" means the failure of a part on the equipment due to a defect in the part or faulty workmanship as supplied by the Manufacturer, making the part unable to mechanically perform the function for which it was designed. When a part fails to perform under normal use and within the equipment manufacturer's specified tolerances, a mechanical breakdown will be considered to have occurred. A mechanical breakdown does not include gradual reduction in operating performance as a result of normal wear and usage due to the failure of the Contractor to perform regular maintenance and/or the Contractor exceeding the manufacturer established tolerances defining failure and serviceability of the part.

2. Notifications – The Contractor shall provide the following notifications:
 - a. 48 Hour Notice - Prior to initiating well plugging operations, the Contractor shall give a minimum of 48 hours' notice to the landowner, persons residing within 100 feet of the well, the local fire department, and the responsible oil and gas resources inspector (the "Inspector"). In the event that the Inspector cannot be contacted, the Contractor will contact the appropriate regional office of ODNR. Notice may be either written or oral.
 - b. Two (2) Working Day Notice - In addition, the Contractor, the Contractor's agents, representatives, sub-contractors, or independent Contractors shall contact the Ohio Utilities Protection Service (1-800-362-2764) to mark underground utilities at the access point, along the access route, and within 100' of the well affected by this Agreement at least two (2) working days prior to commencement of work. The Contractor, the Contractor's agents, representatives or sub-contractors shall also contact each utility company which has the aboveground utilities that directly affect access to and/or create safety issues relating to plugging activities at the well location(s) listed in Part 17 of these General Well Plugging and Restoration Specifications.
 - c. Adverse Conditions - Should adverse conditions be encountered during the plugging operations, such as the release of volumes of hydrogen sulfide gas (H₂S), natural gas, crude oil, and/or brine that may threaten human health and safety and/or the environment, the Contractor should immediately notify the Inspector, the local fire department, and the director of the county Emergency Management Agency.
3. Access and Preservation of Site - Costs for the adequate access to the well site for the plugging equipment are to be included in the bid. Unless waived, placement of all tanks and equipment shall be subject to ODNR's approval. If requested by ODNR, access roads will be chained or cabled to prevent unauthorized use.

Special attention shall be given to maintaining trees and other vegetation that have scenic value, provide a natural habitat. No trees three (3) inches or larger in diameter shall be removed without the ODNR's permission. Any alterations to the natural topography required to provide ingress and egress to the well site must be approved before work begins.

4. Circulation of Well Bore - An approved control head and oil saver, in good working condition, must be installed on the surface casing or conductor pipe. Freshwater or approved drilling muds are to be used during clean out or circulation of the wellbore. Brine may only be used with ODNR's approval on a well-by-well basis.

SUPPLEMENT ONE (contd.)

5. Casing - ODNR reserves the right to require the removal and/or placement of any tubing, casing, or liners deemed necessary to properly plug and abandon the well. If a string of casing that would normally be pulled cannot be removed, the Contractor shall log the well and perforate the casing, in accordance with ODNR's instructions, so that cement can be circulated behind the casing.

The Contractor shall run an operational string of casing when caving of the well prevents clean out to contract depth. If the contract depth cannot be reached, an adjustment may be made for materials and labor not required.

6. Water Well or Pit - The Contractor will follow the procedures outlined in the 'Detailed Well Specifications and Plugging Requirements' for cleaning out and plugging any water well or closing any pit associated with the oil or gas well.
7. Cement - The Contractor must notify the Inspector a minimum of 24 hours in advance of the time that cementing will commence.

Cement used for plugging must be API Class A or with prior approval, State Transportation approved ASTM Type I (ASTM C150). All cement, except nine-sack grout ready-mix, must be mixed on location. Air-entraining cements shall not be used for plugging. Cement shall not contain bentonite, fly ash, or other extenders which retard set time or decrease compressive strength without prior approval by the Division. Cement slurry shall be mixed at the API recommended weight, but under no condition shall the average weight be less than 15 pounds per gallon. The Contractor shall be responsible for providing a mud scale for weighing the cement slurry. Water used for cementing shall be free of any impurities that would adversely affect set time and compressive strength. Cement slurry used for plugging must develop a minimum compressive strength of 1,000 PSI after 24 hours at well bore temperature.

Fresh water shall be placed in all portions of the well not filled with cement. Changes in the type of spacer must be approved by the Inspector.

8. Removal of Materials - All salvaged well materials shall be removed from the site when plugging has been completed. ODNR shall be reimbursed for the salvage value of all surface equipment, well casing, and production equipment removed from each site, minus the Contractor costs for transportation and/or disposal.

All fluids, cuttings, and impacted soils generated during the plugging process shall be removed within 72 hours after plugging. The Contractor will be responsible for the proper transportation of this material to, and disposal at approved facilities. The Contractor will provide ODNR with documentation of disposal.

9. Erosion and Sediment Control - The Contractor must install appropriate erosion and sediment control where necessary. If proper control of soil erosion is not being provided by the Contractor, corrective measures may be taken by ODNR and the cost of such services will be deducted from any money which may be due or become due the Contractor.
10. Damage caused by Contractor - All damage caused by the Contractor's negligence in carrying out of this Contract to any public or private property of any nature whatsoever, including trees, shrubs, and crops, shall be corrected to ODNR's satisfaction at the expense of the Contractor. If crops are damaged and the Contractor, landowner, or tenant cannot reach a settlement, the County Cooperative Extension Service shall set a fair price for crop damages and the decision shall be final and binding upon all parties. All subsequent payments due the Contractor shall be withheld until the Contractor provides proof of payment of any such claim.
11. Restoration of Site

- a. Disturbed Areas and Materials - All trees, brush, stones, or other natural materials disturbed during the plugging operation shall be removed from the site or, with the approval of ODNR and the owner of the surface estate of the property on which the well is located, shall be buried to a depth of at least twenty-four (24) inches. All highly compacted areas within the work zone shall be scarified to at least twelve (12) inches.

Final grades will conform to the natural contours of the land and will not pond water within the disturbed areas. Disturbed areas shall be vegetated as soon as possible after plugging. No permanent seeding will be done between November 1st and March 15th.

During the site restoration process, the Contractor will use appropriate backfill material and compaction methods to avoid any settlement in backfilled areas. If the Contractor does not follow this process and settlement occurs, the Contractor will be responsible for any additional restoration costs.

SUPPLEMENT ONE (contd.)

- b. Backfill - Areas to be seeded, which have been excavated, shall be backfilled to within six (6) inches of the original ground elevation. After settlement, the top six (6) inches of backfill shall be made with the original topsoil which has been stockpiled. If there is a deficiency of suitable topsoil, the Contractor shall furnish suitable topsoil as required.
 - c. Re-seeding and Fertilizer - The Contractor shall have the option of seeding or sodding disturbed lawn areas. If an area is seeded, the soil must be worked to a depth of 3 inches, or deeper, and be free of rocks and other foreign material three (3) inches or greater in any dimension. The appropriate type and mixture of grass seed and fertilizer will be applied to promote vegetative cover and proper growth. The seeded areas will be appropriately covered with clean, un-weathered straw. Sodded areas will be rolled and watered after placing. Sod shall be soaked to a depth of four (4) inches and maintained in a moist condition by additional watering for a period of thirty (30) days.
 - d. Maintenance of Sodded and Seeded Areas - Sodded and seeded areas shall be maintained until final inspection which will be performed by the Inspector within thirty (30) days of written notification of completion of seeding by the Contractor. Areas damaged by wind, water, or other causes shall be repaired to the re-established condition and grade prior to seeding and shall then be re-sodded or re-fertilized, reseeded and re-mulched as directed by ODNR. Such repair of these areas shall be made at the direction of ODNR even when the damage or erosion is not due to fault or negligence of the Contractor.
 - e. Sidewalks and Driveways - The condition of any sidewalks, driveways, etc., that may be impacted by the plugging operations, will be photo-documented prior to the commencement and after the completion of plugging operations. Bids will include costs to bring these damaged areas to a state that is equal to or better than original.
12. Well Covers - A steel plate, a minimum of ¼-inch thick, shall be tack welded on top of all plugged wells. The well's permit number shall be welded on the plate in numbers as large as practical. Letters shall have a minimum relief of 1/8-inch.
13. Safety - The Contractor is responsible for installing, according to best management practices, a wellhead control device. The Contractor shall also maintain an adequate supply of brine and/or mud at the well for possible well control emergencies.
14. Hydrogen Sulfide - If the wells being plugged are known to produce hydrogen sulfide (h₂S), the following considerations must be observed.
- a. Safety - The Contractor must provide the appropriate equipment, on-site, to properly abate any H₂S emitted from the well. If the Contractor does not have the appropriate equipment to properly abate any H₂S emitted from the well, they will contract with the appropriate party to provide these services. The wellhead will be shut in during non-operational hours, unless otherwise instructed by ODNR.
 - b. Cement - The Contractor will use an approved sulfate resistant cement to plug wells known to produce hydrogen sulfide.
15. Millings - If required, five (5) days (maximum) will be allowed for milling in order to remove obstructions in the well bore to achieve total depth. In the event that milling is required, mobilization/de-mobilization and day rate costs must be provided in the bid. The day rate, based on an eight hour day, includes, rig time, mud pump, power swivel, appropriate tools/bits, tubulars and all labor. The authority to conduct milling operations must be approved by the Inspector. Payment for services rendered will be made at the listed rate. If the milling required is deemed to be the result of operator error/negligence, the operator will be solely responsible for all related costs.
16. Fishing - If required, five (5) days (maximum) will be allowed for fishing in order to remove rods, tubing, casing, or obstructions in the well bore. In the event that milling is required, provide the cost per day for these services in the bid. The day rate includes mobilization/de-mobilization, rig time, appropriate fishing tools, tubulars, tongs, and all labor. The authority to conduct fishing operations must be approved by ODNR. Payment for services rendered will be made at the listed rate. If the fishing required is deemed to be the result of operator error/negligence, the operator will be solely responsible for all costs related to the retrieval of the lost tools/equipment.

TABLE S1.1
COMPLIANCE WITH GENERAL SCOPE REQUIREMENTS IN REFERENCE WELLS

Requirement*	Reference Well No. 1	Reference Well No. 2	Reference Well No. 3	Reference Well No. 4	Reference Well No. 5
Equipment					
Notifications					
Access and Preservation of Site					
Circulation of Well Bore					
Casing					
Cement					
Removal of Materials					
Erosion and Sedimentation Control					

*Rate on 1 to 5 scale with 5 meaning full compliance with all requirements and 1 meaning failure to comply with any requirements.

SUPPLEMENT ONE (cont.)

TABLE S1.1 (cont.)
COMPLIANCE WITH GENERAL SCOPE REQUIREMENTS IN REFERENCE WELLS

Requirement*	Reference Well No. 1	Reference Well No. 2	Reference Well No. 3	Reference Well No. 4	Reference Well No. 5
Resolution of Contractor Damage					
Site Restoration					
Well Covers					
Employee Safety					
Public Safety					
Protection of Private and Public Utilities					
Hydrogen Sulfide (H₂S) Protection					
Millings					
Fishing					
TOTAL					

* Rate on 1 to 5 scale with 5 meaning full compliance with all requirements and 1 meaning failure to comply with any requirements.