US ERA ARCHIVE DOCUMENT

# FLORENCE COPPER, INC. UIC PERMIT APPLICATION FLORENCE COPPER PROJECT – PRODUCTION TEST FACILITY

ATTACHMENT Q - PLUGGING AND ABANDONMENT PLAN

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#### Q.1 Introduction

This Attachment has been prepared in support of an application (Application) by Florence Copper, Inc. (Florence Copper) to the United States Environmental Protection Agency (USEPA) for issuance of an Underground Injection Control Class III (Area) Permit (UIC Permit) for the planned Production Test Facility (PTF), to be located at the Florence Copper Project (FCP) in Pinal County, Arizona. Florence Copper is submitting this Application so that it may proceed with the development of the PTF to demonstrate the feasibility of a future full scale in-situ copper recovery (ISCR) facility. As required for Attachment Q under USEPA Form 7520-6, this Attachment describes the plan for plugging and abandonment of the proposed Class III wells, and the proposed corrective action for existing and planned Class III wells on the FCP site. This Attachment also describes the corrective action Florence Copper will undertake to plug and abandon non-Class III wells and core holes as identified in Attachment C of this Application.

This plugging and abandonment plan is consistent with the Closure and Post-Closure Plan included in Florence Copper's related Aquifer Protection Permit (APP) No. 106360 issued by the Arizona Department of Environmental Quality (ADEQ) for PTF operations at the FCP. For the reviewers' convenience, a copy of Temporary APP No. 106360 is provided as Exhibit Q-1 to this Attachment. The current closure and post-closure requirements are described in Sections 2.9 and 2.10 of Temporary APP No. 106360.

The closure and post-closure language included in Temporary APP No. 106360 conforms with and governs all proposed closure and post-closure plans previously submitted to ADEQ in conjunction with the application for Temporary APP No. 106360. A closure and post-closure plan is included as Exhibit Q-2 to this Attachment.

#### Q.1.1 Applicability

This plugging and abandonment plan is applicable to both proposed Class III wells, and all other Class III and non-Class III wells and core holes, within the PTF area and the associated Area of Review (AOR) located at the FCP site, 1575 West Hunt Highway, Florence, Arizona 85132. This plan applies to all the wells and core holes because the proposed corrective action for all wells and core holes within the AOR is to plug and abandon them using the same standards as will be applied to abandonment of Class III wells. The AOR is defined in Attachment A of this Application as a 500-foot zone around the permitted PTF area.

This plan also applies to existing Class III wells outside of the PTF AOR that were constructed by BHP in accordance with UIC Permit No. AZ396000001. The BHP Class III wells may be plugged and abandoned following completion of PTF operations if Florence Copper chooses not to proceed with commercial scale operation on the property. If Florence Copper chooses to proceed with commercial scale operations on the FCP property, they may incorporate the existing BHP Class III wells into future phases of FCP operations.

This plan has been designed to ensure that all existing and future wells and core holes located within the AOR (a 500-foot area circumscribing the proposed PTF well field) will be plugged and abandoned (1) in a manner that will prevent or stop the flow of injected solutions into or out of a underground source of drinking water (USDW) through a penetrating core hole or well and (2) in accordance with applicable permits and regulations administered by the USEPA, the ADEQ, and Arizona Department of Water Resources (ADWR).

Plugging and abandonment of existing non-Class III wells and core holes within the AOR will occur prior to commencement of injection at the PTF. Plugging and abandonment of Class III wells will occur during closure, or whenever an individual Class III well is retired because of irreparable non-compliance with mechanical integrity test requirements.

All abandonment notifications, approvals, procedures, documentation, and reporting required under this plan, and Exhibit Q-2 of this plan, apply to all Class III wells constructed within the PTF AOR and Class III wells constructed by BHP within the AOR established by UIC Permit No. AZ396000001.

#### Q.1.2 Objectives

The objectives of the plugging and abandonment plan are to ensure that wells and core holes will be plugged and sealed in a manner that will prevent the migration of injected fluids into or between USDWs, and to ensure compliance with the applicable requirements of the ADWR (Arizona Administrative Code [A.A.C.] R12-15-816 [Abandonment], Arizona Revised Statutes [A.R.S.] § 45-402 et seq., and ADWR Well Abandonment Handbook) and the USEPA (40 Code of Federal Regulations [CFR] 146.10 [Plugging and Abandoning Class I-V Wells]).

#### Q.1.3 Hydrogeologic Setting

The saturated geologic formations underlying the FCP site have been divided into three distinct water-bearing hydrostratigraphic units referred to as the Upper Basin Fill Unit (UBFU), Lower Basin Fill Unit (LBFU), and the Bedrock Oxide Zone. The UBFU and LBFU are separated by a thin, regionally extensive aquitard referred to as the Middle Fine-Grained Unit (MFGU). The injection and recovery wells will be completed in the Bedrock Oxide Zone, the uppermost zone of the bedrock complex underlying the FCP site.

#### Q.1.4 Overview of PTF Operation

The PTF area will be prepared for operations through a three-step process that includes: (a) the abandonment of core holes and existing wells (except Class III wells and monitoring wells) within the PTF and within 500 feet of the PTF well field; (b) the installation of injection, recovery, and observation wells as required; and (c) the installation of ancillary facilities such as pipelines, tanks, roads, and power lines.

PTF operations will consist of the injection of a dilute sulfuric-acid solution (lixiviant) into a pre-defined interval of the oxide zone to dissolve copper and to recover the resulting copper-bearing solution. If necessary, the recovered solution may be re-acidified and re-injected to enrich the copper concentration in solution until the copper concentration is sufficient to support solvent extraction/electrowinning (SX/EW) operations. When the copper concentration meets a desired grade, the recovered solution (pregnant leach solution [PLS]) will be conveyed via an above-ground pipeline to the SX/EW plant for processing.

Once copper concentrations in recovered solutions decline to a level indicating depletion of the ore, closure will begin by replacing the volume of lixiviant injected into the oxide zone with fresh groundwater. Closure will continue with the injection of fresh groundwater. Depending on copper content, solutions produced during closure operations will be withdrawn through the recovery wells and conveyed to the SX/EW plant for processing, or re-injected into the unit from which it was produced, or conveyed via a neutralization circuit to the proposed water impoundment.

Flushing of the oxide zone will be discontinued and the PTF will be provisionally considered to be closed once constituent concentrations in the groundwater in the flushed zone meet the closure criteria specified in the UIC Permit and the related APP. Not more than two years following the provisional closure of the PTF, all wells within the PTF will be abandoned in accordance with the procedures outlined in this plan.

At the conclusion of PTF operations, proposed Class III wells within the AOR will remain open for use in monitoring groundwater conditions until ADEQ and USEPA give approval to plug and abandon the wells. Section 2.9.2 of APP No. 106360 requires that the PTF wells remain open to facilitate sampling at one month, sixth months, and one year following the conclusion of formation rinsing, and further requires that written authorization be obtained from both ADEQ and USEPA prior to plugging and abandonment of the PTF wells. ADEQ and USEPA may choose to require additional monitoring after the one year samples have been collected. In any event, PTF Class III wells will not be plugged and abandoned until written authorization to do so has been received from both ADEQ and USEPA.

Post-closure monitoring at the POC wells and supplemental monitoring wells will continue for a period of at least five years following the completion of formation rinsing. The supplemental monitoring wells will remain open for at least five years following the cessation of rinsing, and until receipt of written authorization from both ADEQ and USEPA.

#### Q.2 Licenses, Notifications and Approvals

#### Q.2.1 Licensed Drillers

Abandonment procedures are described in Section Q.3 and will only be performed by well drillers licensed by the ADWR pursuant to A.R.S. § 45-595(B), or under the direction of such licensed well drillers.

#### Q.2.2 Abandonment Notification and Authorization

Florence Copper will convey notice of intent to abandon a well or core hole to ADWR using Form 55-38 (*Notice of Intent to Abandon a Well*) approximately 30 days prior to the planned commencement of abandonment activities for a well or core hole. Form 55-38 will include information describing the location, type, and construction of the well or core hole, and the proposed plugging or abandonment method.

In addition, Florence Copper will convey notice of proposed abandonment of Class III and Non-Class III wells and all core holes to USEPA on Form 7520-14 (*Plugging and Abandonment Plan*) approximately 60 days prior to the planned abandonment. The form will include descriptions of the proposed abandonment materials and methods to be employed during abandonment. Copies of Forms 55-38 and 7520-14 will be submitted to ADEQ as they are submitted respectively to ADWR and USEPA.

Once ADWR has approved the abandonment method and materials identified on ADWR Form 55-38, ADWR will issue authorization to the driller to commence with the proposed abandonment. Authorization from ADWR will be in the form of a "well abandonment card" issued to the licensed driller. No well or core hole will be abandoned on the FCP site unless the driller has received a well abandonment card, issued by the Director of the ADWR, authorizing the abandonment of the specific well or core hole.

#### Q.3 Well and Core Hole Abandonment Procedures

The standard abandonment procedure will be to completely fill the well or core hole with an appropriate sealing material, with some variation depending on the type, condition, and total depth of the well or core hole. The condition and depth of each well or core hole will vary. Abandonment will be considered complete when all applicable sealing steps set forth in Section Q.3.3 below have been completed or have been found unnecessary.

#### Q.3.1 Well or Core Hole Preparation

The following tasks will be performed to prepare each well or core hole for effective sealing.

- a. <u>Locate and Inspect Well or Core Hole:</u> The well or core hole will be located using available survey coordinates. The condition and location of the well or core hole will be recorded. If the well or core hole is not visible from the surface, the area will be excavated to locate the collar of the core hole or expose the surface casing of the well.
- b. Move in Workover Rig: A workover rig, capable of performing the required abandonment operations at the required depths will be moved in and set up over the well or core hole.
- c. <u>Equipment Removal</u>: All pumps, tubing, wiring, and ancillary equipment within the well will be removed prior to abandonment of the well. Core holes do not have such equipment.
- d. <u>Perforations</u>: If records demonstrate that a well annulus is inadequately sealed and its casing is not removed, the casing will be perforated to allow installation of cement grout in the annulus. If necessary and the casing extends that distance, perforations will extend from at least 20 feet below the bedrock-LBFU contact to at least 20 feet above the contact; from at least 20 feet below the base of the MFGU to at least 20 feet above the top of the MFGU, and from 25 feet below ground surface (bgs) to 5 feet bgs.

- e. <u>Cleaning</u>: Wells and core holes will be cleaned out if necessary to a depth of at least 100 feet below the bedrock-LBFU contact to enable proper placement of cement seals. This will be accomplished by installing a workstring of tubing and circulating fluids, or drilling, or performing other remedial work as required to clean the well or core hole to the required depth.
- f. <u>Equalization of Wellbore Fluids</u>: After cleaning the well or core hole, wellbore fluids (bentonite mud) may be circulated and treated as necessary to achieve equilibrium and stabilize the hole.

#### Q.3.2 Equipment and Materials

The following material and equipment will be used in sealing wells and core holes according to the procedure described in Section Q.3.3 if required to make proper seals.

- a. <u>Cement Grout</u>: All cement grout will consist of Type V cement, or approved equivalent.
- b. <u>Mechanical Plugs</u>: A mechanical bridge plug will be set at the base of the interval to be cemented off if it is not at the bottom of the well or core hole. This will prevent migration of the cement plug below the interval to be cemented and sealed.
- c. <u>Cement Plugs:</u> Cement plugs will consist of Type V cement grout or approved equivalent.
- d. <u>Cement Retainer</u>: If cement grout is to be installed in the annulus behind perforated casing, a cement retainer will be set above the top perforation prior to pumping cement grout into the perforated interval that has been isolated by the cement retainer.
- e. <u>Workstring</u>: A workstring of small diameter pipe or tubing will be used for the placement of cement grout and plugs.

#### Q.3.3 General Procedure for Sealing Wells and Core Holes

The following procedure will be used to seal each well or core hole:

- a. If the surface casing is loose at ground surface, an attempt will be made to remove it. If removal of the casing is not feasible, it will be left in the hole and perforated as needed to allow an annular seal to be placed to a depth of 25 feet bgs. In areas of agricultural use, the surface casing will be cut at least 5 feet bgs and removed.
- b. A tremie pipe will be used to place Type V cement in the open well or core hole from the bottom of the hole to the top of the hole. Cement retainers, as described above, will be used to force cement grout into the annulus behind perforated intervals, as necessary.
- c. If the hole has been obstructed, cement will be placed as much as possible from at least 100 feet below the LBFU-bedrock contact to the top of the hole.
- d. The volume of Type V cement will be recorded, and will not be less than the estimated volume of material required to fill each interval.

#### Q.3.4 Procedures for Special Circumstances

The following procedures will be completed for special circumstances, as indicated.

- a. <u>Seal of Perched Aquifer</u>: If cascading water is encountered during preparation for abandonment, the well casing in the target area will be cleaned or perforated, isolated with cement plugs, and Type V cement will be used to seal the annulus around the perched layer. Cement seals will be emplaced in four steps as follows:
  - 1. In the area of the observed cascading water, existing casing perforations in the well will be cleaned to the point that they are open and will readily allow neat cement to pass, or new perforations will be cut that will allow neat cement to pass.

- 2. The well casing will be filled with Type V cement to a point at least 20 feet below the cascading zone, and will be allowed to cure for a minimum of 12 hours.
- 3. A packer will be emplaced above the cascading zone.
- 4. Type V neat cement will be injected under pressure into the cascading zone until a volume of cement has been pumped that is equal to or greater than the combined volume of the well bore and the annular space within the isolated zone.
- b. <u>Injection Wells</u>: Injection wells plugged and abandoned in accordance with the procedures specified above will be deemed to have been plugged and abandoned in accordance with the provisions of 40 CFR 146.10. Therefore, Florence Copper will comply with the procedures specified above to ensure that any deviation from the above procedures will not violate the provisions of 40 CFR 146.10.

#### Q.4 Documentation and Reporting

Following completion of plugging and abandonment, reports will be recorded and filed, as described below.

#### Q.4.1 Reporting Responsibilities

The licensed driller or supervised designate will maintain a log of all abandonment activities. The log will be of sufficient detail that the driller will be able to complete all ADWR requirements and all abandonment reports to USEPA. The driller will sign all ADWR abandonment forms. The authorized Florence Copper representative will sign all narrative abandonment reports submitted to the ADWR and all abandonment reports to USEPA.

#### Q.4.2 Reports to ADWR

The licensed driller will complete and sign a Well Abandonment Completion Report (ADWR Form 55-58) and submit it to ADWR within 30 days following abandonment of any well (including Class III wells) or core hole. Form 55-58 will update the information provided on ADWR Form 55-38 (Notice of Intent to Abandon a Well) including updated information on the treatment, materials, and methods used for abandoning the well or core hole. Florence Copper will complete and sign a Well Owner's Notification of Abandonment (ADWR Form 55-36) and submit it to ADWR within 30 days following abandonment.

#### Q.4.3 Reports to USEPA

Within 60 days after plugging and abandoning a well or core hole or at the time of the next quarterly report due to the USEPA (whichever is less), Florence Copper shall submit a report to the Regional Administrator of USEPA. If the quarterly report is due less than 15 days before plugging and abandonment is completed, then the report will be submitted within 60 days. The report will be certified as accurate by the licensed driller who performed the plugging and abandonment procedures.

The report will consist of either:

- A statement that the well or core hole was plugged and abandoned in accordance with the plan previously submitted to the Regional Administrator; or
- An updated version of the plan on Form 7520-14, specifying differences if the actual plugging or abandonment differed from the plan previously submitted.

The report will also include a summary of non-class III wells and core holes abandoned, and will include copies of all forms (Forms 55-38, 55-58, and 55-36) submitted to ADWR.

Completed copies of Form 7520-14, and schematic diagrams of wells and core holes within the AOR, are provided as Exhibit Q-3 to this Attachment.

#### Q.4.4 Reports to ADEQ

Florence Copper will include in its quarterly APP monitoring report to ADEQ a summary noting the identification number of each well or core hole for which abandonment was completed during the reporting period, the date that the abandonment was completed, and the location of the well or core hole.

Florence Copper will also submit to ADEQ a copy of the plugging and abandonment report developed for submittal to USEPA in accordance with Section Q.4.3.

#### Q.4.5 Maintenance of Records

Copies of all completed and required abandonment report forms, plans and narratives required by ADWR or USEPA will be maintained at the FCP site for inspection until closure is completed. After commencement of post-closure, the records will be stored by Florence Copper, subject to review by USEPA and ADEQ, until post-closure is completed.

#### **Exhibit Q-1**

Copy of Aquifer Protection Permit No. 106360 Issued by ADEQ, dated July 3, 2013

## STATE OF ARIZONA TEMPORARY AQUIFER PROTECTION PERMIT NO. P- 106360 PLACE ID 1579, LTF 58398 OTHER AMENDMENT

#### 1.0 AUTHORIZATION

In compliance with the provisions of Arizona Revised Statutes (A.R.S.) Title 49, Chapter 2, Articles 1, 2 and 3, Arizona Administrative Code (A.A.C.) Title 18, Chapter 9, Articles 1 and 2, A. A. C. Title 18, Chapter 11, Article 4 and amendments thereto, and the conditions set forth in this permit, the Arizona Department of Environmental Quality (ADEQ) hereby authorizes Curis Resources (Arizona) Inc. to operate the Florence Copper Project- Pilot Test Facility Florence, Pinal County, Arizona, over groundwater of the Pinal Active Management Area, in Section 28, Range 9E, Township 4S Gila and Salt River Base Line and Meridian.

For purposes of A.A.C. R18-9-A210(E), this permit becomes effective on the later of the following: 1) If no timely appeal is filed, upon completion of the public participation requirements under A.A.C. R-18-9-109; 2) If a timely appeal is filed, upon final decision of the water quality appeals board; or 3) upon the date specified by the permittee in a written notification to ADEQ that the permittee can use the authorization to operate the PTF granted by this permit.

- 1. Following all the conditions of this permit including the design and operational information documented or referenced below, and
- 2. Such that Aquifer Water Quality Standards (AWQS) are not violated at the applicable point of compliance (POC) set forth below, or if an AWQS for a pollutant has been exceeded in an aquifer at the time of permit issuance, that no additional degradation of the aquifer relative to that pollutant, and as determined at the applicable POC, occurs as a result of the discharge from the facility.

#### 1.1 PERMITTEE INFORMATION

Facility Address: Curis Resources (Arizona) Inc.

1575 W. Hunt Highway Florence, AZ 85132

Permittee: Curis Resources (Arizona) Inc.

Permittee Address: 1575 W. Hunt Highway Florence, AZ 85132

Facility Contact: Dan Johnson, Vice President, Environmental

**Emergency Phone No.:** (520) 374-3984

**Latitude/Longitude:** 33° 03' 1.4" N / 111° 26' 4.7" W

Legal Description: Township 4S, Range 9E, Section 28 Gila and Salt River Base Line and Meridian

Michael Fulton, Director Water Quality Division

1.2 AUTHORIZING SIGNATURE

Arizona Department of Environmental Quality
Signed this 3rd day of July , 2013

THIS AMENDED PERMIT SUPERCEDES ALL PREVIOUS PERMITS

#### 2.0 SPECIFIC CONDITIONS [A.R.S. §§ 49-203(4), 49-241(A)]

#### 2.1 Facility / Site Description [A.R.S. § 49-243(K)(8)]

The Temporary Individual Aquifer Protection Permit (APP) is for a Production Test Facility (PTF), a pilot scale test facility located on approximately 160 acres of the Arizona State Land (Mineral Lease 11-26500). The Temporary APP is to construct and operate a production test facility which shall provide sufficient data to assess and develop a full-scale in-situ mining operation.

The PTF will occupy approximately 13.8 contiguous acres and the PTF well field will occupy approximately 2.2 acres. Curis Resources (Arizona) Inc. proposes to construct and operate the PTF over a two-year period, estimated to include an approximate 14 month leaching phase and a 9 month mine block rinsing phase. The PTF will contain a total of 24 wells and consist of 4 Underground Injection Control (UIC) Class III injection wells, 9 recovery wells, 7 observation wells and 4 multilevel sampling wells. The proposed In-Situ Copper Recovery (ISCR) process involves injecting a lixiviant (99.5% water mixed with 0.5% sulfuric acid) through injection wells into the oxide zone of the bedrock beneath the site for the purposes of dissolving copper minerals from the ore body. The estimated injection zone is between approximately 500 feet below ground surface (ft bgs) to 1,185 ft bgs. The resulting copper-bearing solution will be pumped by recovery wells to the surface where copper will be removed from the solution in a solvent extraction electro winning (SX/EW) plant. The barren solution from the SX/EW plant will be re-acidified and re-injected back into the oxide zone. Other facilities proposed for the PTF will include the SX/EW Plant, Process Water Impoundment (PWI), Runoff Pond, tank farm and other ancillary facilities.

The site includes the following permitted discharging facilities:

Facility	Latitude	Longitude
In-Situ Area Injection and Recovery Well Block	33° 3' 1.39" N	111° 26' 4.69" W
Process Water Impoundment	33° 3′ 8.67" N	111° 25' 22.18" W
Run-off Pond	33° 3' 4.66" N	111° 25' 22.6" W

#### Annual Registration Fee [A.R.S. § 49-242 and A.A.C. R18-14-104]

The annual registration fee for this permit is established by A.R.S. § 49-242 and is payable to ADEQ each year. The design flow is 432,000 gallons per day (gpd).

#### Financial Capability [A.R.S. § 49-243(N) and A.A.C. R18-9-A203]

The permittee has demonstrated financial capability under A.R.S. § 49-243(N) and A.A.C. R18-9-A203. The permittee shall maintain financial capability throughout the life of this permit. The estimated closure cost is \$3,487,743. The financial assurance mechanism was demonstrated through a performance surety bond (A.A.C. R18-9-A203 (C)(2)).

2.2 Best Available Demonstrated Control Technology [A.R.S. § 49-243(B) and A.A.C. R18-9-A202(A)(5)]
This permit authorizes the temporary operation of the discharging facilities listed below, pursuant to A.A.C. R18-9-A210(E). The intent of the pilot test is to demonstrate that hydraulic control of the in-situ solution can be maintained at the site in order to conduct a copper recovery process. The discharging facilities and their BADCT descriptions are also presented in Section 4.1, Table 4.1-1.

#### 2.2.1 Engineering Design

#### 2.2.1.1 In-Situ Area Injection and Recovery Well Block

Design, construction, testing (mechanical integrity), and operation of injection and recovery wells shall follow EPA Class III rules (40 CFR Part 146). The maximum fracture pressure

shall be no greater than 0.65 pounds per square inch per foot (psi/ft) of depth. Hydraulic control shall be maintained at all times, within the pilot test facility well block, by pumping recovery wells at a rate greater than the injection rate in order to maintain a cone of depression. The injection and extraction volumes shall be metered at the well-heads, monitored daily, and recorded. Surface water control shall be provided for the PTF injection and recovery well sites.

#### 2.2.1.2 Process Water Impoundment

The Process Water Impoundment (PWI), a process solution pond, shall be used to evaporate neutralized solutions and contain resulting sediments. The PWI shall be located immediately north of the runoff pond which is directly north of the SX/EW plant. The PWI shall have a capacity of approximately 1.7 million cubic feet, approximately 15 to 23-feet deep, with internal and external side slopes of 2.5-feet horizontal to 1.0-feet vertical (2.5H:1V), and maintain a minimum of two (2) feet freeboard. The PWI shall be designed as a double liner system and include a leak collection and removal system (LCRS). The liner system shall consist of, from bottom to top; a compacted sub-grade (foundation) with liner bedding, 60-mil HDPE secondary liner, geonet, and 60-mil primary liner. The LCRS shall be equipped with: a sump located at the lowest elevation of the pond; a sump pump to remove accumulated liquids; and an alarm system for fluid detection.

#### 2.2.1.3 Run-off Pond

The Runoff Pond, a non-stormwater pond, shall be located directly south of the PWI, north of the adjacent SX/EW plant, and northeast of the Pregnant Leachate Solution (PLS) and Raffinate tank secondary containment structure. The Runoff Pond shall be designed to capture direct precipitation; stormwater runoff from the roofs of on-site structures, cathode storage slab and concrete apron on the south side of the SX/EW Building; fire sprinkler water or process solutions that may enter or overflow the SX/EW Building floor sump; and any spills on or wash down from these areas. The Runoff Pond shall have a capacity of approximately 6,583 cubic feet; approximately 5-feet deep; internal and external side slopes shall be no less than 2.0-feet horizontal to 1.0-feet vertical (2.5H:1V); and pond shall maintain a minimum of two (2) feet freeboard. The Runoff Pond shall be designed with a single liner that includes an engineered compacted sub-grade and 60-mil HDPE geomembrane liner. The Runoff Pond shall incorporate a sump equipped with a pump along with fluid-level detection equipment. When fluid is detected above the level set-point the pump will transfer fluid out of the Runoff Pond to the PWI via pipeline.

#### 2.2.2 Site-specific Characteristics

Not applicable to this permit.

#### 2.2.3 Pre-operational Requirements

- a) All boreholes or wells, other than those approved for the PTF, located within 500-feet of the PTF well field boundary shall be plugged and abandoned per the Arizona Department of Water Resources (ADWR) rules and EPA Underground Injection Control (UIC) regulations prior to PTF operation. All boreholes or wells within a 150-foot radius of the Process Water Impoundment and Runoff Pond shall also be plugged and abandoned per the Arizona Department of Water Resources (ADWR) rules. Documentation records for the plugging and abandonment of all boreholes and wells within 500 feet of the PTF and within 150 feet of the Process Water Impoundment and Runoff Pond shall be submitted no later than 30 days prior to the start-up of the pilot study.
- b) All Class III injection wells shall be drilled, cased and cemented according to the requirements of the UIC permit. Prior to commencement of operation, all new Class III injection wells shall meet the mechanical integrity testing (MIT) requirements of the UIC permit.
- c) The permittee shall complete aquifer pump tests prior to injection in order to optimize knowledge of subsurface characteristics particularly within the targeted in-situ leaching zone and report in accordance with Section 2.7.4.3.

- d) Inward hydraulic gradient towards the recovery wells shall be established prior to the injection of acidified process solution into the injection wells.
- e) The permittee shall establish ambient mine block groundwater concentrations using an ADEQ approved statistical method (see Section 2.7.4.2) to determine pre-mining concentrations at the PTF wells in accordance with the Compliance Schedule (Section 3.0).

#### 2.2.4 Operational Requirements

A description of required inspections and operational monitoring for BADCT is included in Section 4.1, Table 4.1-3.

The injection wells at the site are classified as Class III Injection wells by the USEPA and are permitted by EPA's UIC Program. The injection and recovery wells shall be designed to meet the mechanical integrity requirements in the UIC regulations, Code of Federal Regulations (CFR) part 144 and 146. All injection wells and recovery wells shall be designed and installed to prevent injection into the top 40 feet (the exclusion zone) of the oxide zone. The injection of the solutions shall be limited to the Oxide ore body only.

The PTF operation relies on hydraulic control of the ISCR solutions to demonstrate BADCT. Hydraulic control shall be confirmed through the use of observation wells to maintain an inward hydraulic gradient. An inward hydraulic gradient shall be measured by water level elevations in injection, recovery, observation wells. The rates of injection and recovery shall be continuously monitored and controlled so that the total volume of solution recovered is greater than the volume of solution injected, averaged over 24 hour period. Automatic controls and alarms shall be used in the well field to ensure process upsets do not result in the loss of hydraulic control. Hydraulic control over the injected solutions shall be maintained from the time injection begins and until well abandonment is completed by the applicant and approved by the appropriate agencies and groundwater in the mine blocks meets APP closure criteria. A description of required operational monitoring is included in Section 4.1, Table 4.1-8.

The injection pressure in the Class III injection wells shall be kept below the fracture pressure of the oxide ore body. A fracture gradient of 0.65 pounds per square inch per foot (psi/ft) of depth was established by field test data as being adequate to prevent hydraulic fracturing of the bedrock.

Observation wells located down-gradient of the injection wells may be temporarily converted to use as recovery wells in order to maintain hydraulic control.

#### 2.3 Discharge Limitations [A.R.S. §§ 49-201(14), 49-243 and A.A.C. R18-9-A205(B)]

The permittee shall operate and maintain all permitted facilities listed below to prevent unauthorized discharges pursuant to A.R.S. §§ 49-201(12) resulting from failure or bypassing of BADCT pollutant control technologies including liner failure, uncontrollable leakage, overtopping (e.g., exceeding maximum storage capacity defined as a fluid level exceeding the crest elevation of a permitted impoundment), berm breaches, accidental spills, or other unauthorized discharges.

#### 2.3.1. In-Situ Area Injection and Recovery Well Block

Hydraulic control over the injected solutions shall be maintained during the operating life of the facility. In-situ solutions shall be injected and contained within the oxide unit.

#### 2.3.2 Process Water Impoundment

The PWI shall be used to store neutralized solutions and resulting sediments, and direct precipitation.

#### 2.3.3 Run-off Pond

The Runoff Pond shall be used to capture direct precipitation; stormwater runoff from roofs on-site structures, cathode storage slab, and concrete apron on the south side of the SX/EW building; fire sprinkler water or process solutions that may enter or overflow the SX/EW Building floor sump; any

spills or wash down from these areas; and process upset events.

#### 2.4 Point(s) of Compliance [A.R.S. § 49-244]

The Points of Compliance (POC) are listed in Table below. Monitoring shall be conducted at each Point of Compliance (POC) as listed in Section 4.1, Table 4.1-6 and 4.1-7

	G	ROUNDWA	TER MONITORI	NG POINTS OF CO	MPLIANCE	-	
POC#	ADWR No.	Total Depth (ft. bgs)	Latitude	Longitude	Screened Interval (ft. bgs)	Aquifer Unit	
POCs for In-Situ Well Filed							
M14-GL	55-549172	859	33° 03' 4.0"N	111°26' 15.77"W	778-838	LBFU	
M15-GU	55-547813	615	33° 03' 4.04"N	111° 26' 16.40"W	554-594	LBFU	
M22-O	55-555831	1,140	33° 03' 4.53"N	111° 26' 15.76"W	932-1,130	Oxide	
M23-UBF	55-555824	250	33° 03' 4.51"N	111° 26' 16.50"W	210-250	UBFU	
M54-LBF	TBD	TBD	TBD	TBD	500-640	LBFU	
M54-O	TBD	TBD	TBD	TBD	660-1,200	Oxide	
POCs for Impoundments							
M52-UBF	TBD	276	TBD	TBD	200-275	UBFU	

Note: TBD - to be determined. The monitoring well location and construction details are proposed, pending final installation of the wells. The wells are to be installed in accordance with the Compliance Schedule, Section 3.0.

The Director may amend this permit to designate additional POCs, if information on groundwater gradients or groundwater usage indicates the need.

#### 2.4.1 New Well Design and Installation

The permittee shall submit design specification for any other wells that may be installed or modified for ADEQ's prior review and approval. The wells shall be designed with appropriate surface seals, annular seals to prevent cross contamination, plugs above the filter pack to prevent cement grout intrusion into the filter pack and screen, and filter pack and screen size selected for the lithology of the screened interval.

All new wells shall be developed after installation and allowed to recover at least one week prior to collection of an initial groundwater sample.

#### 2.4.1.1 Well Installation Report

A well installation report shall be submitted to ADEQ within 60 days after the completion of the well(s) installation in accordance with Section 3.0. The well installation report shall be completed in accordance with A.A.C. R12-15-801 et seq. and consist of the following

- Copies of ADWR Notice of Intent (NOI) and all related submittals to ADWR;
- Boring log and well as-built diagram;
- Total depth of well measured after installation;
- Top of well casing or sounding tube (whichever is used as the fixed reference measuring point) and ground surface elevation;
- Depth to static groundwater;
- Geophysical logging reports and subsurface sampling results, if any;
- Description of well drilling method;
- Description of well development method;
- If dedicated sampling equipment installed, details on the equipment and at what depth the equipment was installed;

- Summary of analytical results for initial groundwater sample collected after installation;
- · Corresponding analytical data sheets; and
- Global Positioning System (GPS) coordinates for each new well.

#### 2.4.1.2 Replacement Wells

In the event that a well other than a POC well should become unusable or inaccessible due to damage, a significant decrease and/or increase in water level, or any other event, the replacement well(s) shall be approved by ADEQ.

#### 2.5 Monitoring Requirements [A.R.S. § 49-243(B) and (K)(1), A.A.C. R18-9-A206(A)]

All monitoring required in this permit shall continue for the duration of the permit, regardless of the status of the facility. Monitoring shall commence the first full monitoring period following permit effective date or at a frequency specified by the permit. All sampling, preservation and holding times shall be in accordance with currently accepted standards of professional practice. Trip blanks, equipment blanks and duplicate samples shall also be obtained, and Chain-of-Custody procedures shall be followed, in accordance with currently accepted standards of professional practice. Copies of laboratory analyses and Chain-of-Custody forms shall be maintained at the permitted facility. Upon request, these documents shall be made immediately available for review by ADEQ personnel.

#### 2.5.1 Discharge Monitoring

Discharge monitoring shall be conducted on a one time basis at the PLS Tank, Raffinate Tank, Process Water Impoundment and Runoff Pond in accordance with Section 4.1, Table 4.1-2A, and the Compliance Schedule in Section 3.0, within 90-120 days of initial PTF start-up in order to allow for accurate representation of process solutions. Discharge monitoring of the underground workings shall be conducted at the location identified in Section 4.1, Table 4.1-2B and in accordance with the Compliance Schedule, Section 3.0. The underground workings shall be depth specific sampled before the PTF operations begin, during the injection phase at least sixth months into the mining phase, one month after the mining has ceased, one month after the rinsing phase, and into the closure and post closure monitoring period. Discharge Monitoring Sampling Parameters are listed in Section 4.1, Table 4.1-2C. Results of the discharge monitoring shall be submitted to the GWS within 30 days from receipt of the laboratory analytical results.

#### 2.5.2 Facility / Operational Monitoring

Facility-specific operational monitoring requirements are listed in Section 4.1, Table 4.1-3.

#### 2.5.3 Groundwater Monitoring and Sampling Protocols

Static water levels shall be measured and recorded prior to sampling. Wells shall be purged of at least three borehole volumes (as calculated using the static water level) or until field parameters (pH, temperature, and conductivity) are stable, whichever represents the greater volume. If evacuation results in the well going dry, the well shall be allowed to recover to 80 percent of the original borehole volume, or for 24 hours, whichever is shorter, prior to sampling. If after 24 hours there is not sufficient water for sampling, the well shall be recorded as "dry" for the monitoring event. An explanation for reduced pumping volumes, a record of the volume pumped, and modified sampling procedures shall be reported and submitted with the Self-Monitoring Report Form (SMRF).

As an alternative method for sampling, the permittee may conduct the sampling using the low-flow purging method described in the Arizona Water Resources Center March 1995 Field Manual for Water Quality Sampling. Under this method, the well must be purged until at least two indicator parameters stabilize. Indicator parameters shall include dissolved oxygen, turbidity, pH, temperature and conductivity.

#### 2.5.3.1 POC Well Installation

Groundwater monitor wells must be installed at POC locations M54-LBF, M54-O and M52-UBF in accordance with the Compliance Schedule, Section 3.0.

#### 2.5.3.2 Ambient Groundwater Monitoring

Eight (8) rounds of groundwater sampling are required to establish ambient groundwater quality at POC wells M54-LBF, M54-O and M52-UBF and any other additional POCs required to be installed as part of the Compliance Schedule (Section 3.0). Each ambient sample shall be analyzed for the parameters listed in Section 4.1, Table 4.1-5. Alert levels and aquifer quality limits shall be established as required in Sections 2.5.3.2.1 and 2.5.3.2.2.

#### 2.5.3.2.1 Alert Levels for POC Wells

ALs for POC wells will be calculated for all parameters with an established AWQS and for the other sampling parameters listed as "reserved" in Section 4.1, Table 4.1-6 and Table 4.1-7 within 30 days of receipt of the laboratory analyses for the final sampling round of the ambient groundwater monitoring period for each POC well list in Section 2.4. The permittee shall submit the ambient groundwater monitoring data in tabulated form to the ADEQ Groundwater Section (GWS) for review. Copies of all laboratory analytical reports, field notes, and the Quality Assurance/Quality Control (QA/QC) procedures used in the collection and analyses of the samples for all parameters listed in Section 4.1, Tables 4.1-6 and 4.1-7 shall be submitted to the GWS. The permittee may submit a report with the calculations for each AQL and AL included in the permit for review and approval by ADEQ, or the permittee may defer calculation of the AQLs and ALs to the GWS. The AQLs and ALs shall be established and calculated by the following formula or another valid statistical method submitted to GWS in writing and approved for this permit by the GWS:

AL = M + KS

Where M = mean, S= standard deviation, and K = one-sided normal tolerance interval with a 95% confidence level (Lieberman, G.J. (1958) Tables for One-sided Statistical Tolerance Limits: Industrial Quality Control, Vol. XIV, No. 10). Obvious outliers should be excluded from the data used in the AL calculation.

The following criteria shall be met in establishing ALs in the permit for constituents with an AWQS:

- 1. The AL shall be calculated for a parameter using the analyses from a minimum of eight (8) consecutive sample rounds. The permittee shall not use more than eight (8) sample rounds in the calculation.
- Any data where the practical quantification limit (PQL) exceeds 80% of the AWQS shall not be included in the AL calculation.
- 3. If a parameter is below the detection limit, the permittee must report the value as "less than" the numeric value for the PQL or detection limit for the parameter, not just as "non-detect". For those parameters, the permittee shall use a value of one-half the reported detection limit for the AL calculation.
- 4. If the analytical results from more than 50% of the samples for a specific parameter are non-detect, then the AL shall be set at 80% of the AWQS.
- 5. If the calculated AL for a specific constituent and well is less than 80% of the AWQS, the AL shall be set at 80% of the AWQS for that constituent in that well.

The following criteria shall be met in establishing ALs in the permit for constituents without an AWOS:

1. The AL shall be calculated for a parameter using the analyses from a minimum of eight (8) consecutive sample rounds. The permittee shall not use more than eight (8)

sample rounds in the calculation.

2. If a parameter is below the detection limit, the permittee must report the value as "less than" the numeric value for the PQL or detection limit for the parameter, not just as "non-detect". For those parameters, the permittee shall use a value of one-half the reported detection limit for the AL calculation.

#### 2.5.3.2.2 Aquifer Quality Limits for POC Wells

AQLs for POC wells will be calculated for each of the analytes for which a numeric AWQS has been adopted within 30 days of receipt of the laboratory analyses for the final sampling round of the ambient groundwater monitoring period for each POC well list in Section 2.4. For each of the monitored analytes for which a numeric AWQS has been adopted, the AQL shall be established as follows:

- If the calculated AL is less than the AWQS, then the AQL shall be set equal to the AWOS.
- 2. If the calculated AL is greater than the AWQS, then the AQL shall be set equal to the calculated AL value, and no AL shall be set for that constituent at that monitoring point.

#### 2.5.3.3 Quarterly Compliance Monitoring

The permittee shall perform quarterly compliance monitoring of the POC wells as specified in Section 4.1, Table 4.1-6. The results of the monitoring shall be compared to the AQLs and ALs.

The permittee shall submit reports of the quarterly compliance monitoring in accordance with the reporting schedule at Section 2.7.6.

#### 2.5.3.4 Semi-Annual Compliance Monitoring

The permittee shall perform semi-annual compliance monitoring of the POC wells as specified in Section 4.1, Table 4.1-7. The results of the monitoring shall be compared to the AQLs and ALs.

The permittee shall submit reports of the semi-annual compliance monitoring in accordance with the reporting schedule at Section 2.7.6.

#### 2.5.3.5 Point of Compliance Well Replacement

In the event that one or more of the designated POC wells should become unusable or inaccessible due to damage, or any other event, a replacement POC well shall be constructed and installed upon approval by ADEQ. If the replacement well is 50 feet or less from the original well, the ALs and/or AQLs calculated for the designated POC well shall apply to the replacement well.

#### 2.5.4 Surface Water Monitoring and Sampling Protocols

Not applicable to this permit.

#### 2.5.5 Analytical Methodology

All samples collected for compliance monitoring and soil sampling shall be analyzed using Arizona state-approved methods. If no state-approved method exists, then any appropriate EPA-approved method shall be used. Regardless of the method used, the detection limits must be sufficient to determine compliance with the regulatory limits of the parameters specified in this permit. Analyses shall be performed by a laboratory licensed by the Arizona Department of Health Services, Office of Laboratory Licensure and Certification. For results to be considered valid, all analytical work shall meet quality control standards specified in the approved methods. A list of Arizona state-certified laboratories can be obtained at the address below:

Arizona Department of Health Services
Office of Laboratory Licensure and Certification
250 North 17<sup>th</sup> Avenue
Phoenix, AZ 85007
Phone: (602) 364-0720

#### 2.5.6 Installation and Maintenance of Monitoring Equipment

Monitoring equipment required by this permit shall be installed and maintained so that representative samples required by the permit can be collected. If new groundwater wells are determined to be necessary, the construction details shall be submitted to the ADEQ Groundwater Section for approval prior to installation and the permit shall be amended to include any new monitoring points.

#### 2.5.7 Protection of Downgradient Uses - Arsenic

For purposes of this permit, ADEQ has established a use protection level (UPL) for arsenic of 0.01 milligrams per liter (mg/L), consistent with EPA's primary drinking water standard for arsenic. The northwest corner of the State Mineral Lease Land, on which the PTF shall be located, has been conservatively designated as the downgradient point at which the arsenic UPL will be applied. Consistent with ADEQ's substantive policy statement titled "Using Narrative Aquifer Water Quality Standards to Develop Permit Conditions for Aquifer Protection Permits" (Oct. 2003), an alert level for arsenic shall be established for each of the POC wells M14-GL, M15-GU, M22-O, M23-UBF, M54-LBF, and M54-O for the in-situ well field through consideration of fate and transport of arsenic in groundwater to ensure that the UPL is not exceeded at the northwest corner of the State Mineral Lease Land (See Compliance Schedule, Section 3.0).

#### 2.5.8 Monitoring Well

Monitoring well MW-01 shall be installed and approved by ADEQ in accordance with the Compliance Schedule, Section 3.0. Monitoring well MW-01 shall be located in the down gradient groundwater direction at or near the PTF well field boundary. The placement of MW-01 shall be sufficiently located to measure changes in chemical groundwater concentrations emanating from the injection zones within the effective time frames of the Temporary APP. MW-01 shall be a nested well screened separately across each proposed injection zone targeted for in-situ leaching, and potentially into the LBFU. MW-01 shall be analyzed one month prior to the pilot test start-up and one month after the rinsing phase for parameters listed in Table 4.1-5. MW-01 shall be monitored monthly for the duration of the pilot test for pH, sulfate and total dissolved solids (TDS). The groundwater data collected for this well shall be summarized and submitted as part of the Quarterly Reporting Requirement listed in Section 2.7.4.4.

GROUNDWATER MONITORING WELL							
Well #	ADWR No.	Total Depth (ft. bgs)	Latitude	Longitude	Screened Interval (ft. bgs)	Aquifer Unit	
MW-01	TBD	TBD	TBD	TBD	TBD	Oxide (may include LBFU)	

#### 2.6 Contingency Plan Requirements

[A.R.S. § 49-243(K)(3), (K)(7) and A.A.C. R18-9-A204 and R18-9-A205]

#### 2.6.1 General Contingency Plan Requirements

At least one copy of this permit and the approved contingency and emergency response plans submitted in the application shall be maintained at the location where day-to-day decisions regarding the operation of the facility are made. The permittee shall be aware of and follow the contingency and

emergency plans.

Any AL that is exceeded or any violation of an AQL, discharge limit (DL), or other permit condition shall be reported to ADEQ following the reporting requirements in Section 2.7.3.

Some contingency actions may involve verification sampling. Verification sampling shall consist of the first follow-up sample collected from a location that previously indicated a violation or the exceedance of an AL. Collection and analysis of the verification sample shall use the same protocols and test methods to analyze for the pollutant or pollutants that exceeded an AL or violated an AQL. The permittee is subject to enforcement action for the failure to comply with any contingency actions in this permit. Where verification sampling is specified in this permit, it is the option of the permittee to perform such sampling. If verification sampling is not conducted within the timeframe allotted, ADEQ and the permittee shall presume the initial sampling result to be confirmed as if verification sampling has been conducted. The permittee is responsible for compliance with contingency plans relating to the exceedance of an AL or violation of a DL, AQL or any other permit condition.

#### 2.6.2 Exceeding of Alert Levels

#### 2.6.2.1 Exceeding of Alert Levels Set for Operational Conditions

- 1. If an Operational Conditions for BADCT in Section 4.1, Table 4.1-3 has been exceeded, the permittee shall:
  - a. Notify the ADEQ Water Quality Compliance Section within five (5) days of becoming aware of a violation of any permit condition in accordance with Section 2.7.3 (Permit Violation and Alert Level Reporting), unless other reporting is specified in Section 4.1, Table 4.1-3.
  - b. Submit a written report within thirty (30) days after becoming aware of a violation of a permit condition in accordance with Section 2.7.3. The report shall document all of the following:
    - i. a description of the exceeded value or performance standard and its cause;
    - ii. the period of violation, including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;
    - iii. any action taken or planned to mitigate the effects of the violation, or the spill, or to eliminate or prevent recurrence of the violation;
    - iv. any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an Aquifer Water Quality Standard; and
    - v. any malfunction or failure of pollution control devices or other equipment or process.
- The facility is no longer on alert status once the operational indicator no longer indicates
  that an Operational Condition is being exceeded. The permittee shall, however,
  complete all tasks necessary to return the facility to its pre-alert operating condition.

#### 2.6.2.2 Exceedance of Alert Level #1 for Normal Liner Leakage

If an Alert Level #1 (AL #1) as specified in Section 4.1, Table 4.1-4, has been exceeded, the permittee shall take the following actions:

- 1. Within 5 days of discovery, determine if the fluid in the collection sump is operational/process water from the impoundment by measuring the pH and conductivity of fluids in the impoundment and in the sump to allow direct comparison in wastewater quality. Notify ADEQ Water Quality Compliance Section in accordance with Section 2.7.3(1) (Permit Violation and AL Status Reporting), and include in the notification an assessment of the type of water in the sump. Monitor fluid removal from the LCRS on a daily basis until the daily volume of fluid quantified remains below AL#1 for 30 days in order to minimize the hydraulic head on the lower liner.
- 2. Within 15 days of discovery, assess the condition of the liner system using visual

methods for visible portions of the liner, electrical leak detection, or other methods as applicable to determine the location of leaks in the primary liner. If liner damage is evident, the permittee shall complete liner repairs and submit documentation of the repairs in the initial report discussed in Item No. 3 below.

- 3. Within 30 days of discovery of exceeding AL#1, the permittee shall submit an initial report to ADEQ Water Quality Compliance Section to address problems identified from the initial assessment of the liner system, the source of the fluid, and any remedial actions taken to minimize the future occurrences. The report shall include the results of the initial liner evaluation, methods used to locate the leak(s) if applicable, any repair procedures implemented to restore the liner to optimal operational status if required, and other information necessary to ensure the future occurrence of the incidence will be minimized. The permittee shall also submit the report required under Section 2.7.3.
- 4. For leakage rates that continue to exceed AL #1 and are below AL #2, a Liner Leakage Assessment Report shall be included in the next annual report described in Section 2.7.4 (Operational, Other or miscellaneous Reporting) of this permit. The permittee may also submit the Liner Leakage Assessment Report to the ADEQ prior to the annual report due date. This Liner Leakage Assessment Report shall be submitted to both the ADEQ Water Quality Compliance Section and the ADEQ Groundwater Section.

ADEQ will review the Liner Leakage Assessment Report and may require that the permittee take additional action to address the problems identified from the assessment of the liner and perform other applicable repair procedures as directed by the ADEQ, including repair of the liner or addressing and controlling infiltration of non-operational water detected in the LCRS.

#### 2.6.2.3 Exceedance of Alert Level #2 (Discharge Limit) for Liner Failure or Rips

If the Liner Leakage Discharge Limit (AL #2) specified in Section 4.1, Table 4.1-4, has been exceeded, the permittee shall:

- 1. Immediately cease all discharge to the impoundment, and notify ADEQ's Water Quality Compliance Section orally, electronically, or, by facsimile, of the AL #2 exceedance. Within 24 hours, determine if water in the collection sump is operational/process water from the impoundment by measuring the pH and conductivity of fluids contained in the impoundment and in the sump to allow direct comparison in water quality.
- Within 5 days of discovery, notify ADEQ Water Quality Compliance Section, in accordance with Section 2.7.3 (Permit Violation and AL Status Reporting) and include an assessment regarding the type of water in the sump based upon the measurements taken according to Item No. 1 listed above.
- 3. Within 15 days of discovery identify the location of the leak(s) using visual methods, electrical leak detection, or other methods as applicable. If liner damage is evident, the permittee shall complete liner repairs and submit documentation of the repairs in Item No. 4 below. Discharge to the impoundment shall not be re-initiated until the leak(s) have been identified and repaired.
- 4. Within 30 days of exceeding AL #2, submit a report to ADEQ as specified in Section 2.7.3 (Permit Violation and AL Status Reporting). The report shall include the results of the initial liner evaluation, methods used to locate the leak(s) if applicable, any repair procedures and quality assurance/quality control implemented to restore the liner to optimal operational status if required, and other information necessary to ensure the future occurrence of the incidence will be minimized. Upon review of the report, ADEQ may request additional monitoring or remedial actions.
- 5. If AL #2 continues to be exceeded following completion of repairs, submit for approval to ADEQ, a corrective action plan including a schedule to complete the corrective actions to address all problems identified from the assessment of the liner

- system and surface releases, if any, within 60 days of completion of repairs conducted in response to Item No. 3 above. Upon ADEQ's approval, the permittee shall implement the approved plan and schedule of corrective actions.
- 6. Within 30 days of completion of corrective actions, submit to ADEQ, a written report as specified in Section 2.6.6 (Corrective Actions).

#### 2.6.2.4 Exceeding of Alert Levels in Groundwater Monitoring

#### 2.6.2.4.1 Alert Levels for Indicator Parameters

- If an AL in Section 4.1 Table 4.1-6 or Table 4.1-7 been exceeded, the
  permittee shall request that the laboratory verify the sample results within 5
  days. If the analysis does not confirm that an exceedance has occurred, the
  permittee may assume there has been no exceedance and no further action is
  required.
- 2. Within 5 days after receiving laboratory confirmation of an AL being exceeded, the permittee shall notify the ADEQ Water Quality Compliance Section and submit written confirmation within 30 days of receiving the laboratory confirmation of an AL exceedance.
- 3. If the results indicate an exceedance of an AL, the permittee shall conduct a verification sample of groundwater from the well within 15 days from laboratory confirmation. If the verification sample does not confirm that an exceedance has occurred, the permittee shall notify ADEQ Water Quality Compliance Section of the results and assume there has been no exceedance. No further action is required under this subsection.
- 4. If verification sampling confirms that the AL has been exceeded, the permittee shall increase the frequency of monitoring to monthly and analyze for the entire list of parameters listed in Section 4.1, Table 4.1-7. In addition, the permittee shall immediately investigate the cause of the exceedance and report the results of the investigation with the 30 day confirmation noted above. ADEQ may require additional investigations, the installation of additional wells or corrective action in response to the report. The permittee shall continue monthly testing for the parameter(s) until the parameter(s) has remained below the AL for three consecutive monthly sampling events.

### 2.6.2.4.2 Alert Levels for Pollutants with Numeric Aquifer Water Quality Standards

- 1. If an AL for a pollutant set in Section 4.1, Table 4.1-6 and Table 4.1-7 has been exceeded, the permittee may conduct verification sampling within 5 days of becoming aware of an AL exceedance. The permittee may use the results of another sample taken between the date of the last sampling event and the date of receiving the result as verification.
- 2. If verification sampling confirms the AL exceedance or if the permittee opts not to perform verification sampling, then the permittee shall increase the frequency of monitoring to monthly In addition, the permittee shall immediately initiate an investigation of the cause of the AL exceedance, including inspection of all discharging facilities and all related pollution control devices, review of any operational and maintenance practices that might have resulted in an unexpected discharge, and hydrologic review of groundwater conditions including upgradient water quality from existing wells.
- 3. The permittee shall initiate actions identified in the approved contingency

plan referenced in Section 3.0 and specific contingency measures identified in Section 2.6 to resolve any problems identified by the investigation which may have led to an AL exceedance. To implement any other corrective action the permittee shall obtain prior approval from ADEQ according to Section 2.6.6. Alternatively, the permittee may submit a technical demonstration, subject to written approval by the Groundwater Section, that although an AL is exceeded, pollutants are not reasonably expected to cause a violation of an AQL. The demonstration may propose a revised AL or monitoring frequency for approval in writing by the Groundwater Section.

- 4. Within 30 days after confirmation of an AL exceedance, the permittee shall submit the laboratory results to the Water Quality Compliance Section along with a summary of the findings of the investigation, the cause of the AL exceedance, and actions taken to resolve the problem.
- Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, or other actions.
- 6. The increased monitoring required as a result of an AL exceedance may be reduced to the regularly scheduled frequency, if the results of three (3) sequential sampling events demonstrate that no parameters exceed the AL.
- 7. If the increased monitoring required as a result of an AL exceedance continues for more than six (6) sequential sampling events, the permittee shall submit a second report documenting an investigation of the continued AL exceedance within 30 days of the receipt of laboratory results of the sixth sampling event.

### 2.6.2.4.3 Alert Levels to Protect Downgradient Users from Pollutants Using a Narrative Aquifer Water Quality Standard

- 1. If an AL set for arsenic in Section 4.1, Table 4.1-6 or 4.1-7 has been exceeded, the permittee shall conduct verification sampling within 5 days of becoming aware of an AL exceedance.
- 2. If verification sampling confirms that the AL has been exceeded, the permittee shall investigate the cause of the exceedance and shall submit a report regarding the exceedance to ADEQ within 30 days of the date of verification sample. The report shall identify the cause and source(s) of the exceedance and shall propose actions to mitigate the exceedance. The report shall also present groundwater modeling to establish a projected relationship of the wells in which exceedance(s) were found and the downgradient boundary of the Arizona State Land Department property at the facility.
- 3. The permittee shall notify all downgradient users of the aquifer who may be directly affected by the discharge within 24 hours of receiving the results of verification confirmation sampling.

#### 2.6.2.5 Exceeding of BADCT Alert Levels for Injection/Recovery Well Operation

The permittee shall initiate the following actions within 24 hours of becoming aware of an Alert Level exceedance listed in Section 4.1 Table 4.1-8 for the loss of hydraulic control within the in-situ leaching area for more than 24 consecutive hours. A loss of hydraulic control occurs when the amount of fluids injected during a 24 hour period exceeds the amount of fluid recovered for the same 24 hour period. Loss of hydraulic control is also indicated by a flat or outward gradient observed in any pair of observation and recovery wells over a 24 hour period. The permittee shall:

1. Notify the ADEQ Water Quality Compliance Section within one (1) day of becoming aware of the alert level exceedance.

- 2. Adjust flow rates at injection/recovery wells until the recovery volume is greater than the injected volume.
- 3. Conduct an inspection, testing of piping, and wellhead for leaks; injection and recovery lines, pumps, flow meters, totalizers, pressure gauges, pressure transducers, and other associated facilities,
- 4. Review of recent process logs, continuous chart recordings, meter readings, and other operational control information to identify any unusual occurrences,
- 5. Initiate pressure testing of the appropriate wells if the loss of fluids cannot be determined to be caused by a surface facility failure, and
- 6. Repair system as necessary.
- 7. Within one week submit a report to ADEQ Water Quality Compliance Section. The report shall include but not be limited to providing the following information: a) injected volume in the period prior to the alert level exceedance, b) recovered volume in the period prior to the alert level exceedance, c) corrective action taken.
- 8. The permittee is no longer considered to be in violation if the injection rate and recovery rates are re-established and maintained at normal operating conditions following the completion of the corrective actions.

If the exceedance of the Alert Level is determined to be a result of a planned disruption or power outage, the cause will be noted in the log book as required by Section 2.7.2.

If a leak is detected, operation of the well shall cease until the leak has been repaired and mechanical integrity demonstrated to minimize the potential for groundwater pollution.

Within 30 days of the initial AL exceedance caused by a leak, the permittee shall submit a report to ADEQ GWS at the address shown in Section 2.7.5. This report shall document all submittals to EPA, including but not limited to, monitoring and report data and reports checking engineering and integrity of the well.

The facility is no longer on alert status once the operational indicator no longer indicates that an AL is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

#### 2.6.2.6 Exceeding of Alert Levels Set for Maximum Injection Pressure

The permittee shall initiate the following actions within 24 hours of becoming aware of an Alert Level exceedance listed in Section 4.1, Table 4.1-8 for the exceedance of a fracture gradient. The permittee shall:

- 1. Immediately investigate to determine the cause of the AL being exceeded, including:
  - a. Inspection, testing, and assessment of the current condition of all components of the injection system that may have contributed to the AL being exceeded, which may include taking the affected well(s) out of service, and
  - b. Review of all data logger information, test results, and other operational control information to identify any unusual occurrences.
  - c. Repair system as necessary.
- 2. Within 30 days of an AL being exceeded, the permittee shall submit the related data to the ADEQ Water Quality Compliance Section, along with a summary of the findings of the investigation, the cause of the AL being exceeded, and actions taken to resolve the problem. This report shall document all submittals to EPA, including but not limited to, monitoring and report data and reports checking engineering and integrity of the well.
- 3. Upon review of the submitted report, the Department may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to

permit conditions or other actions.

4. The facility is no longer on alert status once the operational indicator no longer indicates that an AL is being exceeded. The permittee shall, however, complete all tasks necessary to return the facility to its pre-alert operating condition.

#### 2.6.3 Discharge Limitations Violations

#### 2.6.3.1 Liner Failure, Containment Structure Failure, or Unexpected Loss of Fluid

In the event of overtopping, liner failure, containment structure failure, or unexpected loss of fluid as described in Section 2.3, the permittee shall take the following actions:

- As soon as practicable, cease all discharges as necessary to prevent any further releases to the environment.
- 2. Within 24 hours of discovery, notify ADEQ Water Quality Compliance Section, Enforcement Unit, orally, electronically, or by facsimile.
- 3. Within 24 hours of discovery of a failure that resulted in a release to the subsurface, collect representative samples of the fluid remaining in affected impoundments and drainage structures, analyze sample(s) according to Section 4.1, Table 4.1-2C and report in accordance with Section 2.7.3 (Permit Violation and AL Status Reporting). In the 30-day report required under Section 2.7.3, include a copy of the analytical results and forward the report to ADEQ Water Quality Compliance Section, Enforcement Unit and Groundwater Section.
- 4. Within 15 days of discovery, initiate an evaluation to determine the cause for the incident. Identify the circumstances that resulted in the failure and assess the condition of the discharging facility and liner system. Implement corrective actions as necessary to resolve the problems identified in the evaluation. Initiate repairs to any failed liner, system, structure, or other component as needed to restore proper functioning of the discharging facility. The permittee shall not resume discharging to the discharging facility until repairs of any failed liner or structure are performed. Repair procedures, methods, and materials used to restore the system(s) to proper operating condition shall be described in the facility log/recordkeeping file and available for ADEQ review.
- 5. Record in the facility log/recordkeeping file the amount of fluid removed, a description of the removal method, and other disposal arrangements. The facility log/recordkeeping file shall be maintained according to Section 2.7.2 (Operation Inspection / Log/Recordkeeping File).
- 6. Within 30 days of discovery of the incident, submit a report to ADEQ as specified in Section 2.7.3. Include a description of the actions performed in Subsections 1 through 5 listed above. Upon review of the report, ADEQ may request additional monitoring or remedial actions.
- 7. Within 60 days of discovery, conduct an assessment of the impacts to the subsoil and/or groundwater resulting from the incident. This assessment may include the installation of POC(s) to determine down-gradient groundwater impact from the incident along with commencement of groundwater monitoring per Section 4.1, Table 4.17. If soil or groundwater is impacted such that it could or did cause or contribute to an exceedance of an AQL at the applicable point of compliance, submit to ADEQ, for approval, a corrective action plan to address such impacts, including identification of remedial actions and a schedule for completion of activities. At the approval of ADEQ, the permittee shall implement the approved plan.
- 8. Within 30 days of completion of corrective actions, submit to ADEQ, a written report as specified in Section 2.6.6 (Corrective Actions).
- 9. Upon review of the report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

#### 2.6.3.2 Overtopping of a Surface Impoundment

If overtopping of fluid from a permitted surface impoundment occurs, and results in a discharge pursuant to A.R.S. § 49-201(12), the permittee shall:

- 1. As soon as practicable, cease all discharges to the surface impoundment to prevent any further releases to the environment.
- 2. Within 24 hours of discovery, notify ADEQ Water Quality Compliance Section, Enforcement Unit.
- 3. Within 24 hours, collect representative samples of the fluid contained in the surface impoundment. Samples shall be analyzed for the parameters specified in Section 4.1, Table 4.1-2C. Within 30 days of the incident, submit a copy of the analytical results to ADEQ Water Quality Compliance Section, Enforcement Unit.
- 4. As soon as practicable, remove and properly dispose of excess water in the impoundment until the water level is restored at or below the appropriate freeboard as described in Section 4.1, Table 4.1-3. Record in the facility log, the amount of fluid removed, a description of the removal method, and the disposal arrangements. The facility log/recordkeeping file shall be maintained according to Section 2.7.2 (Operation Inspection/LogBook/Recordkeeping File).
- 5. Within 30 days of discovery, evaluate the cause of the overtopping and identify the circumstances that resulted in the incident. Implement corrective actions and adjust operational conditions as necessary to resolve the problems identified in the evaluation. Repair any systems as necessary to prevent future occurrences of overtopping.
- 6. Within 30 days of discovery of overtopping, submit a report to ADEQ as specified in Section 2.7.3.2 (Permit Violation and Alert Level Status Reporting). Include a description of the actions performed in Subsections 1 through 5 listed above. Upon review of the report, ADEQ may request additional monitoring or remedial actions.
- Within 60 days of discovery, and based on sampling in Subsection 3 above, conduct an
  assessment of the impacts to the subsoil and/or groundwater resulting from the incident.
- 8. If soil or groundwater is impacted such that it could cause or contribute to an exceedance of an AQL at the applicable point of compliance, submit to ADEQ for approval, a corrective action plan to address such impacts, including identification of remedial actions and/or monitoring, and a schedule for completion of activities. At the direction of ADEQ, the permittee shall implement the approved plan.
- 9. Within 30 days of completion of corrective actions, submit to ADEQ, a written report as specified in Section 2.6.6 (Corrective Actions). Upon review of the report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions.

#### 2.6.3.3 Inflows of Unexpected Materials to a Surface Impoundment

The types of materials that are expected to be placed in the permitted surface impoundments are specified in Section 2.3 (Discharge Limitations). If any unexpected materials flow to a permitted surface impoundment, the permittee shall:

- 1. As soon as practicable, cease all unexpected inflows to the surface impoundment(s).
- 2. Within 24-hours of discovery, notify ADEQ Water Quality Compliance Section, Enforcement Unit.
- 3. Within five (5) days of the incident, identify the source of the material and determine the cause for the inflow. Characterize the unexpected material and contents of the affected impoundment, and evaluate the volume and concentration of the material to determine if it is compatible with the surface impoundment liner. Based on the evaluation of the incident, repair any systems or equipment and/or adjust operations, as necessary to prevent future occurrences of inflows of unexpected materials.
- 4. Within 30 days of an inflow of unexpected materials, submit a report to ADEQ as specified in Section 2.7.3.2 (Permit Violation and Alert Level Status Reporting).

- Include a description of the actions performed in Subsections 1 through 3 listed above.
- Upon review of the report, ADEQ may amend the permit to require additional monitoring, increased frequency of monitoring, amendments to permit conditions, or other actions including remediation.

#### 2.6.3.4 Unexpected Loss of Fluid in the Injection/Recovery Wells at the PTF

In the event of an unexpected loss of fluid in the injection/recovery wells, such that fluids are released to the surface, vadose zone, or groundwater, the permittee shall:

- Within two hours of discovery cease injection in the affected area and/or adjust flow rates at injection/recovery wells until an inward hydraulic gradient is reestablished and excess ISCR solutions are recovered necessary to prevent further releases to the environment.
- 2. Operate the recovery wells in the affected area until the amount of fluid recovered is in excess of the amount of fluid injected during the 24 hour period,
- 3. Within 24 hours of discovery, notify ADEQ Water Quality Compliance Section.
- 4. Inspect relevant components such as injection, recovery lines, pumps, flow meters, flow totalizers, pressure gauges, pressure transducers and other associated facilities,
- 5. Verify proper operations of all facilities within the in-situ leach area,
- 6. Within 24 hours of discovery, initiate an evaluation to determine the cause for the incident. Identify the circumstances that resulted in the failure and assess the condition of the well. Implement corrective actions as necessary to resolve the problems identified in the evaluation. Initiate repairs to any system, structure, or other component as needed to restore proper functioning of the well. The permittee shall not resume injecting or discharging until repairs of any failed structure are performed and tested as applicable. Repair procedures, methods, and materials used to restore the system(s) to proper operating condition shall be described in the facility log/recordkeeping file and available for ADEQ review. The facility log/recordkeeping file shall be maintained according to Section 2.7.2 (Operation Inspection / Log/Recordkeeping File).
- 7. Submit a written report within thirty days to ADEQ as specified in Section 2.7.3 (Permit Violation and AL Status Reporting) describing the incident and the corrective actions taken. Upon review of the report, the Department may require an amendment to the permit to require surface, vadose zone or groundwater monitoring, require installation of additional POCs, increased frequency of monitoring, remedial actions, amendments to permit conditions or other actions.
- 8. Within 30 days of discovery, conduct an assessment of the impacts to the surface, vadose zone and/or groundwater resulting from the incident. If soil or groundwater is impacted, submit to ADEQ, for approval, a corrective action plan to address such impacts, including identification of remedial actions and/or monitoring, and a schedule for completion of activities. The corrective action plan shall be submitted within sixty days of the incident. At the direction of ADEQ, the permittee shall implement the approved plan.

#### 2.6.4 Aquifer Quality Limit Violation

- 1. If an AQL for a pollutant specified in Section 4.1, Table 4.1-6 and Table 4.1-7, is exceeded in a POC Well, the permittee may conduct verification sampling no later than five (5) days after learning of the violation. If verification sampling does not verify the violation, then the initial violation shall be reported in the Quarterly Monitoring and Compliance Report and no further action shall be required of the permittee for that event.
- 2. If verification sampling confirms the violation, or if the permittee opts not to perform verification sampling, then the permittee shall:
  - Notify ADEQ within five (5) days after confirming or learning of the violation, in accordance with Section 2.7.3;

- b. Immediately initiate: (1) a BADCT systems evaluation for the cause of the violation, including an inspection of all facilities regulated under this permit and corresponding pollution control devices, and a review of any operational or maintenance practices that might have resulted in an unexpected discharge; and (2) a hydrogeologic assessment of the violation, including groundwater modeling, review of groundwater conditions and upgradient water quality, groundwater contours, and an inventory of downgradient well users and types of uses:
- c. Increase the frequency of monitoring at the location of the violation to monthly;
- d. Submit a written report based on the investigation within thirty (30) days after becoming aware of the violation, in accordance with Section 2.7.3; and
- e. Take actions that may be necessary as a result of the violation under Section 2.6.5.
- As part of its written report, the permittee may include a technical demonstration that the violation
  was not caused or contributed to by pollutants discharged from a facility regulated under this
  APP.
- 4. Based on the written report, ADEQ may, if necessary: (1) amend the permit to require increased frequency of monitoring or additional monitoring; and (2) authorize corrective action including measures to control the source of a discharge causing the violation (including BADCT correction if necessary); remediate affected soils, surface water or groundwater; and mitigate the impact of the violation on existing uses of the aquifer. ADEQ's corrective action authorization may be in the form of an approval under Section 2.6.6, an amendment of this permit or approval of a contingency plan.
- 5. If the violation continues for sixty (60) days, then the permittee shall notify downgradient or downstream users who may be directly affected by the violation.
- 6. If the violation continues for ninety (90) days, then the permittee shall prepare and submit for ADEQ approval a hydrogeologic investigation work plan within thirty (30) after receiving the laboratory results of the third sampling event. The work plan shall assess whether the violation is due to natural or anthropogenic causes and, if exceeded values are found to be related to APP-regulated facilities within the mine site or results are inconclusive, the nature and extent of the discharge. This hydrogeologic investigation shall become the basis of adjusting permit conditions and/or designing corrective action.

### 2.6.5 Emergency Response and Contingency Requirements for Unauthorized Discharges pursuant to A.R.S. § 49-201(12) and pursuant to A.R.S. § 49-241

#### 2.6.5.1 Duty to Respond

The permittee shall act immediately to correct any condition resulting from a discharge pursuant to A.R.S. § 49-201(12) if that condition could pose an imminent and substantial endangerment to public health or the environment.

#### 2.6.5.2 Discharge of Hazardous Substances or Toxic Pollutants

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of suspected hazardous substances (A.R.S. § 49-201(19)) or toxic pollutants (A.R.S. § 49-243(I)) on the facility site, the permittee shall promptly isolate the area and attempt to identify the discharged material. The permittee shall record information, including name, nature of exposure and follow-up medical treatment, if necessary, on persons who may have been exposed during the incident. The permittee shall notify the ADEQ Water Quality Compliance Section within 24 hours upon discovering the discharge of hazardous material which (a) has the potential to cause an AWQS or AQL to be exceeded, or (b) could pose an endangerment to public health or the environment.

#### 2.6.5.3 Discharge of Non-hazardous Materials

In the event of any unauthorized discharge pursuant to A.R.S. § 49-201(12) of non-hazardous materials from the facility, the permittee shall promptly attempt to cease the discharge and isolate the discharged material. Discharged material shall be removed and the site cleaned up

as soon as possible. The permittee shall notify the ADEQ Water Quality Compliance Section within 24 hours upon discovering the discharge of non-hazardous material which (a) has the potential to cause an AQL to be exceeded, or (b) could pose an endangerment to public health or the environment.

#### 2.6.5.4 Reporting Requirements

The permittee shall submit a written report for any unauthorized discharges reported under Sections 2.6.5.2 and 2.6.5.3 to ADEQ Water Quality Compliance Section within 30 days of the discharge or as required by subsequent ADEQ action. The report shall summarize the event, including any human exposure, and facility response activities and include all information specified in Section 2.7.3. If a notice is issued by ADEQ subsequent to the discharge notification, any additional information requested in the notice shall also be submitted within the time frame specified in that notice. Upon review of the submitted report, ADEQ may require additional monitoring or corrective actions.

#### 2.6.6 Corrective Actions

Specific contingency measures identified in Section 2.6 and actions identified in the approved contingency plan to be submitted under the Compliance Schedule Section 3.0 have already been approved by ADEQ and do not require written approval to implement.

With the exception of emergency response actions taken under Section 2.6.5, the permittee shall obtain written approval from the Groundwater Section prior to implementing a corrective action to accomplish any of the following goals in response to exceeding an AL or violation of an AQL, DL, or other permit condition:

- 1. Control of the source of an unauthorized discharge;
- 2. Soil cleanup;
- 3. Cleanup of affected surface waters;
- 4. Cleanup of affected parts of the aquifer; and/or
- 5. Mitigation to limit the impact of pollutants on existing uses of the aquifer.

Within 30 days of completion of any corrective action, the permittee shall submit to the ADEQ Water Quality Compliance Section, a written report describing the causes, impacts, and actions taken to resolve the problem.

### 2.7 Reporting and Recordkeeping Requirements [A.R.S. § 49-243(K)(2) and A.A.C. R18-9-A206(B) and R18-9-A207]

#### 2.7.1 Self-Monitoring Report Form (SMRFs)

- The permittee shall complete the SMRFs provided by ADEQ, and submit them to the Water Quality Compliance Section, Data Unit.
- 2. The permittee shall complete the SMRF to the extent that the information reported may be entered on the form. If no information is required during a reporting period, the permittee shall enter "not required" on the SMRF and submit the report to ADEQ. The permittee shall use the format devised by ADEQ.
- The tables contained in Section 4.1 list the parameters to be monitored and the frequency for reporting results for compliance monitoring. Monitoring and analytical methods shall be recorded on the SMRFs.
- 4. In addition to the SMRF, the information contained in A.A.C. R18-9-A206(B)(1) shall be included for exceeding an AL or violation of an AQL, DL, or any other permit condition being reported in the current reporting period.

#### 2.7.2 Operation Inspection / Log Book Recordkeeping

A signed copy of this permit shall be maintained at all times at the location where day-to-day decisions regarding the operation of the facility are made. A log book (paper copies, forms or electronic data) of the inspections and measurements required by this permit shall be maintained at the location where day-to-day decisions are made regarding the operation of the facility. The log book shall be retained for ten years from the date of each inspection, and upon request, the permit and the log book shall be made immediately available for review by ADEQ personnel. The information in the log book shall include, but not be limited to, the following information as applicable:

- 1. Name of inspector;
- 2. Date and shift inspection was conducted;
- 3. Condition of applicable facility components;
- 4. Any damage or malfunction, and the date and time any repairs were performed;
- 5. Documentation of sampling date and time;
- 6. Any other information required by this permit to be entered in the log book; and
- 7. Monitoring records for each measurement shall comply with R18-9 A206(B)(2).

#### 2.7.3 Permit Violation and Alert Level Status Reporting

- 1. The permittee shall notify the Water Quality Compliance Section in writing within 5 days (except as provided in Section 2.6.5) of becoming aware of a violation of any permit condition, discharge limitation or of an AL exceedance.
- 2. The permittee shall submit a written report to the Water Quality Compliance Section within 30 days of becoming aware of the violation of any permit condition or discharge limitation. The report shall document all of the following:
  - a. Identification and description of the permit condition for which there has been a violation and a description of its cause;
  - b. The period of violation including exact date(s) and time(s), if known, and the anticipated time period during which the violation is expected to continue;
  - c. Any corrective action taken or planned to mitigate the effects of the violation, or to eliminate or prevent a recurrence of the violation;
  - d. Any monitoring activity or other information which indicates that any pollutants would be reasonably expected to cause a violation of an AWQS;
  - e. Changes to the monitoring which include changes in constituents or increased frequency of monitoring; and
  - f. Description of any malfunction or failure of pollution control devices or other equipment or processes.

#### 2.7.4 Operational, Other or Miscellaneous Reporting

#### 2.7.4.1 Annual Report

If an Alert Level #1 for Normal Liner Leakage has been exceeded discussed in Section 2.6.2.2, the permittee shall submit an annual report that summarizes the results of the liner assessment. The Liner Leakage Assessment Report shall also include information including but not limited to the following: number and location of holes identified; a table summarizing the AL1 exceedances including the frequency and quantity of fluid removed, and corrective actions taken. The annual report shall be submitted prior to 30 days of expiration of this permit.

#### 2.7.4.2 Ambient Mine Block Concentration Report

Ambient mine block groundwater concentrations are required to be determined in order to establish mine block closure rinsing requirements identified Section 2.9.1. One sample shall be taken from each mine block well in order to establish ambient groundwater concentrations. The permittee shall submit within 30 days of completion of ambient mine

block sampling, the ambient mine block groundwater concentrations.

#### 2.7.4.3 Results of Aquifer Pump Tests Prior to Operation of PTF

The permittee shall submit within 30 days of completion of aquifer pump test and prior to beginning operation of the Pilot Study, the results obtained from the aquifer pump test using wells in and around the PTF in accordance with the Compliance Schedule (Section 3.0). The Aquifer Pump Test Report shall discuss and evaluate the feasibility of the proposed Pilot Test using data obtained from pump tests at the PTF wells. The evaluation shall verify previously calculated aquifer properties such as hydraulic conductivity, transmissivity, groundwater velocity, etc. and the validity of the porous medium assumption used in the groundwater modeling for the oxide unit.

#### 2.7.4.4 PTF Operations and Monitoring Quarterly Reports

The permittee shall submit quarterly reports concerning the operations and monitoring of the PTF during the 14-month mining and 9-month rinsing phase to the ADEQ Groundwater Section (GWS). Quarterly reports shall be submitted no later than 30 days following the end of each calendar quarter. The quarterly report shall demonstrate whether the hydraulic control was maintained at the PTF during the quarterly monitoring period. Hydraulic control shall be demonstrated by, including but not limited to, the following: a continuous inward hydraulic gradient by pumping more solution out than went in, maintaining the fracture gradient, and compliance with ALs and AQLs at the POCs. The report shall include:

- A graphical representation of the volumes extracted and injected used to maintain hydraulic control. In the event that more solution was injected than recovered for a 24hour period, or in the event that any of the instruments used to measure the flow volumes malfunction or are out of service for more than 24 consecutive hours, the permittee shall submit a report showing for each day of the quarterly reporting period, the hydraulic gradient was maintained.
- 2. A graphical representation that a continuous inward hydraulic gradient was maintained using water level elevations in the PTF. The reports shall include a graphical presentation of head comparisons for each pair of observation and recovery wells used to monitor the hydraulic gradient. The report shall also include a figure showing the location and identity of each of the paired wells. In the event any one of the well pairs indicate a flat or outward hydraulic gradient for a 24-hour period, or in the event that any of the instruments used to measure the hydraulic gradient malfunction or are out of service for more than 24 consecutive hours, the permittee shall submit a report showing for each day of the quarterly reporting period, the daily flow into and out of the mine block. Hydraulic control shall also be demonstrated through the submittal of potentiometric groundwater contour maps which depict the monthly minimum, monthly average and monthly maximum inward hydraulic gradient toward the recovery wells (i.e. cone of depression) using groundwater elevations collected at the PTF well field.
- 3. A summary of pressure transducers readings and fracture gradients readings.
- 4. A graphical representation of electric conductivity readings from the injection and observation wells.
- 5. A description of any deviations from standard sampling protocols during the reporting period.
- 6. A summary of all exceedances of ALs, AQLs, Action Levels, DLs, or operational limits that occurred during the reporting period and provide the contingency actions completed to mitigate the effects of the violation, or to eliminate the recurrence of the exceedance or violation. The report shall also include identification and discussion of any laboratory results that fell outside of the laboratory QA/QC criteria and AQLs and ALs required by this permit.
- 7. Graphical time versus concentration plots of groundwater elevations, field pH, sulfate, and total dissolved solids since the inception of monitoring at each POC well, and any

- parameter which exceeded an applicable AL or AQL in the past three sampling events at each POC well.
- Groundwater elevation contour maps for each quarterly monitoring period, including the groundwater elevation obtained from the underground workings. The contour maps shall identify, if known, any wells that were pumping within a half-mile radius of the
- Results of the discharge characterization of the underground working, if the required sampling event falls within the quarterly reporting period.
- 10. Fissure inspection summary for the reporting period.
- 11. An updated table of all monitor wells in the Discharge Impact Area including, but not limited to, location of well, depth of well, depth to water, and water level elevation.
- 12. A summary of any groundwater monitor wells replaced in the reporting period including, but not limited to, location of well, depth of well, depth to water, water level elevation, and screened interval.
- 13. Groundwater sampling results for the POCs, and Monitor Wells.
- 14. Copies of Reports submitted to the EPA as required by the UIC permit, including groundwater monitoring results from wells not covered by this permit.

#### Well Abandonment Reports

If monitor wells associated with this permit are abandoned due to poor performance, casing collapse, or other reasons, or are abandoned at the end of the post-closure period, then within 90 days of completing abandonment, the permittee shall submit a well abandonment report to ADEQ Groundwater Section. Appropriate contents of the report shall be sealed by an Arizona professional geologist or professional engineer, in accordance with Arizona Board of Technical Registration requirements. Well abandonment records shall be provided to ADEQ within 90 days of monitor well abandonment and shall include:

- 1. Copies of ADWR Notice of Intent to Abandon
- Copies of ADWR Abandonment Reports
- A description of the methods used to seal the well casing and the perforated or screened interval of the well; and
- Global Positioning System (GPS) coordinates of the former well location

#### 2.7.5 Reporting Location

All SMRFs shall be submitted to:

Arizona Department of Environmental Quality

Water Quality Compliance Section, Data Unit

Mail Code: 5415B-1

1110 W. Washington Street

Phoenix, AZ 85007

Phone (602) 771-4513

All documents required by this permit to be submitted to the Water Quality Compliance Section shall be directed to:

Arizona Department of Environmental Quality

Water Quality Compliance Section

Mail Code: 5415B-1

1110 W. Washington Street

Phoenix, AZ 85007

Phone (602) 771-4497

All documents required by this permit to be submitted to the Groundwater Section shall be directed to:

Arizona Department of Environmental Quality Groundwater Section Mail Code: 5415B-3 1110 W. Washington Street Phoenix, AZ 85007 Phone (602) 771-4428

#### 2.7.6 Reporting Deadline

The Quarterly Report required by Section 2.7.4 and the results of monitoring conducted during each quarter is due within 15 days of the end of the 1<sup>st</sup> quarter and every quarter thereafter. The effective date of the permit shall be used for the purpose of determining the beginning of the 1<sup>st</sup> quarter to begin monitoring and reporting.

The following table lists the report due dates<sup>1</sup>

Monitoring conducted during:	Quarterly Report due by:
First Quarter: January-March	April 30
Second Quarter/Semi-Annual: April-June	July 30
Third Quarter: July-September	October 30
Fourth Quarter/Annual: October-December	January 30

<sup>&</sup>lt;sup>1</sup>A post-mark date no later than the due date is considered meeting the due date requirements under this Section.

#### 2.7.7 Changes to Facility Information in Section 1.0

The Groundwater Section and Water Quality Compliance Section shall be notified within 10 days of any change of facility information including Facility Name, Permittee Name, Mailing or Street Address, Facility Contact Person or Emergency Telephone Number.

#### 2.8 Temporary Cessation [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A209(A)]

The permittee shall give written notice to the Water Quality Compliance Section Office before ceasing operation of the facility for a period of 60 days or greater. The permittee shall take the following measures upon temporary cessation:

Immediately following ADEQ's approval, the permittee shall implement the approved plan. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

At the time of notification the permittee shall submit for ADEQ approval a plan for maintenance of discharge control systems and for monitoring during the period of temporary cessation. Immediately following ADEQ's approval, the permittee shall implement the approved plan. If necessary, ADEQ shall amend permit conditions to incorporate conditions to address temporary cessation. During the period of temporary cessation, the permittee shall provide written notice to the Water Quality Compliance Section Office of the operational status of the facility every ninety days. If the permittee intends to permanently cease operation of any facility, the permittee shall submit closure notification, as set forth in Section 2.9 below.

#### 2.9 Closure [A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(B)]

For a facility addressed under this permit, the permittee shall give written notice of closure to the Water Quality Compliance Section of the permittee's intent to cease operation without resuming activity for which the facility was designed or operated, or submit an amendment application to incorporate the discharging facilities under

this permit into the current individual permit (Inventory Number P-101704, LTF Number 53498, dated August 12, 2011).

#### 2.9.1 Closure Plan

Within 90 days of the effective date of this permit, the permittee shall submit for approval to the Groundwater Section, a Closure Plan which meets the requirements of A.R.S. § 49-252 and A.A.C. R18-9-A209(B)(3) and includes the following topics:

- 1. Updated closure and post-closure financial requirements.
- 2. Contingency mine block rinsing and sampling, as needed.
- 3. Confirmation PTF mine block sampling requirements after the completion of the pilot test.
- 4. Confirmation underground workings sampling requirements after the completion of the pilot test.
- 5. Outline of Report contents for PTF Summary Report that incorporates updated groundwater modeling at the cessation of the pilot test.
- 6. An initial 5 year post-closure groundwater monitoring period, with an evaluation to complete additional post-closure monitoring.
- 5 Year Post-Closure Groundwater Monitoring Report that incorporates updated groundwater modeling.

#### 2.9.2 PTF Mine Block Closure

The permittee will commence PTF closure after the pilot test mining phase has ceased. During mine block closure operations, the permittee will cease the injection of raffinate, and will initiate a mine block rinsing program consisting of the injection of formation water and neutralization agents. At all times during initial block rinsing, the permittee will maintain hydraulic control by sustaining an inward hydraulic gradient within the mine block. The permittee will monitor the rinsing progress by analyzing the water recovered from well-field headers for sulfate concentration. When levels of sulfate in the headers have reached approximately 750 parts per million (ppm), the permittee will sample the injection well header discharges for constituents listed in Section 4.1 Table 4.1-7. If the results of the sampling show concentrations of parameters greater than the AWQS and or greater than the predetermined mine block concentrations, then rinsing operations will continue until all compounds are below primary MCLs or AWQS or predetermined AWQS mine block concentrations.

The permittee will sample all of the wells in the mine block undergoing closure to determine if the sulfate concentrations are less than 750 ppm and the pH is above 5.0 S.U. The permittee will continue rinsing each well until such time that the sulfate concentration in the well is less than 750 ppm and the pH is above 5 S.U.

When all individual well sulfate concentrations in the mine block are less than 750 ppm and a pH is above 5.0 S.U., hydraulic control will be discontinued for 30 days. At the end of the 30-day period, the headers will be re-sampled and if sulfate concentrations remain below 750 ppm and pH remains above 5.0 S.U., the permittee may cease all rinsing activities within the PTF. All POC wells will continue to be monitored in accordance with Section 2.5.3.3 and 2.5.3.4.

A confirmation groundwater sample of the PTF mine block wells will be required at a one month period, six month period and at the one year increment after the groundwater rinsing has ceased to measure any rebound effects to mine block contaminant concentrations for constituents listed in Section 4.1, Table 4.1-7. The results of the confirmation mine block sampling shall be submitted to ADEQ GWS within 30 days of receiving the laboratory analytical results. The permittee shall amend APP P-101704 to incorporate the required mine block closure confirmation sampling which extends beyond the permitted time frames allowed by the Temporary APP pilot project.

The PTF mine block wells shall be abandoned in accordance with ADWR and UIC regulations. EPA and ADEQ written approval shall be obtained prior to abandoning PTF mine block wells.

2.10 Post-closure

Post-closure [A.R.S. §§ 49-243(K)(6), 49-252 and A.A.C. R18-9-A209(C)]
Post-closure requirements shall be established based on the approval of Closure Plan submitted to ADEQ per Section 2.9.1.

#### 3.0 COMPLIANCE SCHEDULE [A.R.S. § 49-243(K)(5) and A.A.C. R18-9-A208]

For each compliance schedule item listed below, the permittee shall submit the required information, including a cover letter that lists the compliance schedule items, to the Groundwater Section. A copy of the cover letter must also be submitted to the Water Quality Compliance Section.

#### **Submittals Not Requiring Permit Amendments**

Description	Comments	Due Date
Permittee shall submit a copy of signed, dated and sealed as- built drawings along with QA/QC documentation to confirm that all discharging facilities were constructed in accordance with the design report, engineering plans and specifications, and other associated data and information approved by ADEQ.		Within 60 days of completion of construction of the PTF
Permittee shall submit a copy of the initial aquifer pump test results for the PTF wells to the ADEQ Groundwater Section for review.		Within 30 days of completion of construction, and prior to beginning operation of the PTF
Permittee shall submit ambient mine block groundwater concentrations for the PTF wells		Within 30 days prior to start-up of PTF
Permittee shall submit documentation that indicates the core holes and wells within 500 feet of PTF and within a 150-foot radius of the Process Water Impoundment and Runoff Pond have been appropriately plugged and abandoned.		Within 30 days prior to start-up of PTF
Permittee shall submit an updated contingency and emergency response plan that complies with the requirements of Arizona Administrative Code R18-9-A204.		Within 30 days of the effective date of the permit (See Section 1.0)
Permittee shall conduct initial discharge characterization for parameters listed in Section 4.1, Table 4.1-2C for the PLS Tank, Raffinate Tank, Process Water Impoundment, Run-off Pond and Underground Workings.		Within 90-120 days of start-up of the PTF
Permittee shall submit initial discharge characterization results for the PLS Tank, Raffinate Tank, Process Water Impoundment, Run-off Pond and Underground Workings shall be submitted to the GWS.		Within 30 days of receipt of the laboratory analytical results
Permittee shall submit renewal application for this permit.	If the permittee determines additional time in excess of one year after this permit's effective date is needed to conduct the Pilot Study	Within 60 days prior to the end of the initial year of this permit's effective date.

Description	Comments	Due Date
Permittee shall submit a closure plan for all discharging facilities permitted under this Temporary Individual Permit in accordance with Section 2.9.1.		Within 90 days of the effective date of the permit (See Section 1.0)
Permittee shall install POC wells M54-LBF, M54-O in accordance with all Arizona Department of Water Resources (ADWR) requirements		Within 30 days of the effective date of the permit (See Section 1.0)
Permittee shall install POC well M52-UBF in accordance with all Arizona Department of Water Resources (ADWR) requirements.		Within 60 days of the effective date of the permit (See Section 1.0)
Permittee shall complete Ambient Water Quality Monitoring for POC wells M54-LBF, M54-O and M52-UBF. POC wells shall be sampled for eight (8) sampling rounds, consisting of one sample every two weeks, in accordance with Section 2.5.3.2. The samples shall be analyzed for all of the parameters listed in Table 4.1-5		First ambient sampling round within 60 days of the effective date of the permit (See Section 1.0)

#### Submittals/Activities Requiring Permit Amendment Applications

	Description	Comments	Due Date
İ	Permittee shall submit calculated alert levels for arsenic (see		Within 30 days prior
١	Section 2.5.7) based on fate and transport considerations to ensure that the arsenic UPL of 0.01 mg/L is not exceeded at		to start-up of PTF
L	the downgradient edge of the State Mineral Lease Land.		
ı	Permittee shall install an ADEQ approved monitoring well		Within 45 days of the
١	(MW-01) in the down gradient direction at the PTF well		effective date of the
1	boundary in accordance with Section 2.5.8.	to the second of	permit (See Section 1.0)
ŀ	Permittee shall submit a well completion report for POC wells		Within 45 days of well
l	M54-LBF, M54-O and M52-UBF in accordance with Section		installation
	2.4.1.1. The report shall include a discussion of well		
١	installation and development activities, and geologic and well		
١	construction logs. The logs shall include the ADWR well		
	registration number, the "as-built" cadastral, and latitude and		
ŀ	longitude coordinates for the well.		Within 20 Jane - C
1	Permittee shall submit a report that includes copies of all laboratory analytical reports, field notes, the QA/QC limits	·	Within 30 days of receipt of the
ĺ	used in collection and analysis of the samples, and statistical		laboratory analytical
l	calculations of the ALs and AQLs for all wells under the		analysis of the final
	ambient water quality monitoring requirement. Incorporation		ambient sampling
	of ALs and AQLs shall constitute a minor amendment to the		round
ľ	permit pursuant to A.A.C. R18-9-A211(C)(7) unless an		
	alternative method for determining ALs other than that set		· .
	forth in Section 2.5.3.2.1 and 2.5.3.2.2 is proposed by the		
L	permittee and accepted by ADEQ.		·

Description	Comments	Due Date
Permittee shall submit an amendment application to incorporate all discharging facilities, and all closure/post-closure activities in accordance with an ADEQ approved Closure Plan per Section 2.9.1 from APP P-106360 into APP P-101704. The application shall also include updated closure/post-closure cost estimates for APP P-101704 and a corresponding updated financial assurance mechanism for APP P-101704.		Within 180 days of the effective date of this permit (See Section 1.0)

#### 4.0 TABLES OF MONITORING REQUIREMENTS

#### 4.1 OPERATIONAL MONITORING (or CONSTRUCTION REQUIREMENTS)

Table 4.1-1 Permitted Facilities and BADCT

Table 4.1-2A One-time Sampling Event-Discharge Monitoring Locations

Table 4.1-2B Multiple Sampling Event-Discharge Monitoring Location

**Table 4.1-2C Discharge Monitoring Sampling Parameters** 

Table 4.1-3 Required Inspections and Operational Monitoring

Table 4.1-4 Leak Collection and Removal System Monitoring

Table 4.1-5 Parameters for Ambient Groundwater Monitoring

Table 4.1-6 Quarterly Compliance Groundwater Monitoring

Table 4.1-7 Semi-Annual Compliance Groundwater Monitoring

Table 4.1-8 Injection/Recovery Well Operational Monitoring

	Table of Permitted Faciliti	
Facility Name	Latitude/Longitude	Facility BADCT
In-Situ Area Injection and Recovery	33° 3' 1.39" N/111° 26' 4.69" W	Design, construction, testing (mechanical integrity), and operation of injection and recovery wells shall follow
Well Block		EPA Class III rules (40 CFR Part 146). The maximum
		injection <i>rate</i> shall be no greater than 60 gallons per minute (gpm) per injection well as a monthly average.
		The maximum <i>fracture pressure</i> shall be no greater than 0.65 pounds per square inch per foot (psi/ft) of
		depth. Hydraulic control shall be maintained at all times, within the PTF well block, by pumping recovery
		wells at a rate greater than the injection rate in order to maintain a cone of depression. The injection and
		extraction volumes shall be metered at the well-heads,
		monitored daily, and recorded. All boreholes or wells, other than those approved for the PTF, located within
		500-feet of the PTF well field boundary shall be plugged and abandoned per the Arizona Department of
		Water Resources (ADWR) rules and EPA Underground Injection—Control—(UIC)—regulations—prior—to—PTF
		operation. During closure of the PTF all operational
		wells shall be plugged and abandoned per the above regulations.
Process Water Impoundment (PWI)	33° 3' 8.67" N/111° 25' 22.18" W	The PWI will have a capacity of approximately 1.7 million cubic feet, approximately 15 to 23-feet deep,
impoundment (1 111)		with internal and external side slopes of 2.5-feet
		horizontal to 1.0-feet vertical (2.5H:1V)), and maintain a minimum of two (2) feet freeboard. The PWI will be
		designed as a double liner system and includes a leak collection and removal system (LCRS). The liner
		system consists of, from bottom to top; a compacted sub-grade (foundation) with liner bedding, 60-mil
		HDPE secondary liner, geonet, and 60-mil primary
		liner. The LCRS will be equipped with a sump located at the lowest elevation of the pond; a sump pump to
		remove accumulated liquids; and an alarm system for fluid detection.
Run-off Pond	33° 3' 4.66" N/111° 25' 22.6" W	The Runoff Pond will have a capacity of approximately
		6,583 cubic feet; the pond depth will be approximately 5-feet deep but will vary; internal and external side
		slopes will be no less than 2.0-feet horizontal to 1.0-feet vertical (2.5H:1V); and pond shall maintain two (2) feet
		of freeboard. The Runoff Pond will be designed with a single liner that includes an engineered compacted sub-
		grade and 60-mil HDPE geomembrane liner. The Runoff
		Pond will incorporate a sump with pump along with fluid-level detection equipment. When fluid is detected
		above the level set-point the pump will transfer fluid out of the Runoff Pond to the Water Impoundment per
		pipeline.

TABLE 4.1-2A One-time Sampling Event-Discharge Monitoring Locations							
Sampling Point Number	Facility	Latitude	Longitude				
001	PLS Tank	33° 03' 4.26"	111° 25' 19.50"				
-002	-Raffinate Tank	33° 03' 4.05"	111° 25' 19.68"				
003	Process Water Impoundment	33° 03' 8.67"	111° 25' 22.18"				
004	Runoff Pond	33° 03' 4.66"	111° 25' 22.6"				

TABLE 4.1-2B Multiple Sampling Event-Discharge Monitoring Location  Sampling Point Number  Facility Latitude Longitude							

<b>Table 4.1-2C</b>								
Discharge Monitoring Sampling Parameters (in mg/L unless otherwise noted)								
pH – field & lab (SU)	_Nickel							
Specific Conductance - field and lab (µmhos/cm)	Iron	Selenium						
Total Dissolved Solids	Aluminum	Thallium						
Total Alkalinity	Antimony	Zinc						
Carbonate	Arsenic	Gross Alpha Particle Activity (pCi/L) 1						
Bicarbonate	Barium	Radium 226 + Radium 228 (pCi/L)						
Nitrate	Beryllium	Uranium-Isotopes (pCi/L) <sup>2</sup>						
Sulfate	Cadmium	Total Petroleum Hydrocarbons						
Chloride	Chromium	Benzene						
Fluoride	Cobalt	Toluene						
Calcium	Copper	Ethylbenzene						
Ammonia	Lead	Total Xylenes						
Magnesium	Manganese	Uranium, Total (μg/L)						
Potassium	Mercury							

- 1. The adjusted gross alpha particle activity is the gross alpha particle activity, including radium 226, and any other alpha emitters, if present in the water sample, minus radon and total uranium (the sum of uranium 238, uranium 235 and uranium 234 isotopes). The gross alpha analytical procedure (evaporation technique: EPA Method 900.0) drives off radon gas in the water samples. Therefore, the Adjusted Gross Alpha should be calculated using the following formula: (Laboratory Reported Gross Alpha MINUS Sum of the Uranium Isotopes).
- 2. Uranium Isotope activity results must be used for calculating Adjusted Gross Alpha.

NOTE: Metals shall be analyzed as dissolved metals.

		le 4.1-3 nd Operational Monitoring	
Facility Category	Facility Name	Operational Requirements	Inspection Frequency
Process Solution	Process-Water	-Maintain 2 feet of freeboard;	Daily
Impoundment	Impoundment	-all discharge and sump pumps	
	·	operational;	
		-no substantial erosion,	
	1	subsidence, cracking,	
		-no evidence of seepage or	er e
		other damage to berms;	
		-no visible cracks or damage	
		to liner;	
		-full access to leak detection	
		system maintained.	
Lined Non-stormwater	Run-off Pond	-Maintain 2 feet of freeboard;	Weekly
Containment Pond		-Spillway clear of sediment or	
	•	obstructions;	
		-no visible cracking or damage	
		to liner;	
		-no operational damage to	
		enclosure wall;	
	*	-all pumps operational;	
•		-backup power supply	
		operational;	
		-no ponding of spilled material	
		in pond and sumps;	
	]	-sediment deeper than 1 inch	
		deep removed from sumps;	
		-fluids in sumps maintained at	
G/1	Git i 1	less than pump-down levels.  -No substantial erosion or	) (4-1
Storm water control	Site-wide - stormwater	5 Late 4	Monthly
structures	ditches	structural damage;	
		-maintained free of sediments,	
Groundwater Monitoring	Site-wide - monitoring	vegetation or obstructions.  Wellhead cap or box locks are	Quarterly, as sampled
Wells	wells	observed to be secure.	Quarterly, as sampled
Pumps	Site-wide -	Check hour meters;	Weekly
rumps	Barge Pumps,	-visual inspection for leaks.	Weekly
	Run-Off Transfer Pumps,	-Visual hispection for leaksLubrication	Per manufacturers
	Sump Pumps,	-Eddi Ration	specification
	Discharge Pumps	-Maintenance and test run.	Every 1,000 to 1,200
	Discharge Lumps	ivianionano and tost tun.	hours of operation
In-Situ Area	Well Field	No leakage from pipelines,	Daily
Injection and Recovery	W OIL I IOIU	manifolds or well heads.	Daily
Well Block		manifolds of well fleads.	
In-Situ Area	Well Field	Initiate subsidence/fissure	Quarterly
Injection and Recovery	WOILT IOIG	monitoring program.	Quartorry
Well Block		momoring program.	

			Ta	ble 4.1-	-4		
		Leak	<b>Collection and Rer</b>	moval S	System Monitorin	g	
Facility Name	Alert	Level #1	Alert Level #2 (G	PD)	Monitoring	Monitoring	Reporting
	(GPD)	-			Method	Frequency	Frequency
Process Water	2,040		16,250	0	Automated	Daily	Annual
Impoundment				3			

GPD = gallons per day per wetted acre

Note:

The Alert Level 1 (AL1) or Alert Level 2 (AL2) shall be exceeded when the amount of leakage pumped from the sump for the evaporation pond is greater than the applicable quantity above. For reporting purposes on the SMRF, the AL1 is equivalent to the Alert Level and AL2 is equivalent to the DL. An exceedance of the DL is not a violation of the permit unless the permittee fails to perform as required under Section 2.6.2.3.

	<b>Table 4.1-5</b>	Annual Control of the
Parameters for Ambient G	roundwater Monitoring (in	mg/L unless otherwise noted)
Depth to Water Level (feet)	Potassium	Nickel
Water Level Elevation (feet amsl)	Sodium	Selenium
Temperature- field (°F)	Iron	Thallium
pH – field & lab (SU)	Aluminum	Zinc
Specific Conductance- field & lab	Antimony	Free Cyanide
(µmhos/cm)		
Total Dissolved Solids	Arsenic	Adjusted Gross Alpha (pCi/L) <sup>1</sup>
Total Alkalinity	Barium	Radium 226 (pCi/L)
Bicarbonate	Beryllium	Radium 228 (pCi/L)
Carbonate	Cadmium	Uranium-Isotopes(pCi/L) <sup>2</sup>
Hydroxide	Chromium	Carbon Disulfide
Sulfate	Cobalt	Benzene
Chloride	Copper	Toluene
Fluoride	Lead	Ethylbenzene
Nitrate + Nitrite	Manganese	Total Xylenes
Calcium	Mercury	Uranium, Total (μg/L)
Magnesium	Molybdenum	

- 1. The adjusted gross alpha particle activity is the gross alpha particle activity, including radium 226, and any other alpha emitters, if present in the water sample, minus radon and total uranium (the sum of uranium 238, uranium 235 and uranium 234 isotopes). The gross alpha analytical procedure (evaporation technique: EPA Method 900.0) drives off radon gas in the water samples. Therefore, the Adjusted Gross Alpha should be calculated using the following formula: (Laboratory Reported Gross Alpha MINUS Sum of the Uranium Isotopes).
- 2. Uranium Isotope activity results must be used for calculating Adjusted Gross Alpha.

NOTE: Metals must be analyzed as dissolved metals.

TABLE 4.1-6 Quarterly Compliance Groundwater Monitoring (in mg/L unless otherwise noted)									
Parameter		ell # M14- GL	POC Well # M15- GU		POC Well # M22-O		POC Well # M23-UBF		
	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	
Depth to Groundwater (ft bgs)	Monitor <sup>1</sup>	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	
Water Level Elevation (ft amsl)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	
pH- field (S.U.)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	
Specific Conductance- field (µmhos/cm)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	
Temperature- field (°F)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	
Fluoride	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2	
Magnesium	Monitor	23	Monitor	44	Monitor	8.6	Monitor	69	
Sulfate	Monitor	144	Monitor	126	Monitor	86	Monitor	411	
Total dissolved solids	Monitor	874	Monitor	1,359	Monitor	1,094	Monitor	2,392	

Parameter		POC Well # M54-()		POC Well # M54-()		POC Well # M54-O		POC Well # M54-O		
	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)				
Depth to Groundwater (ft bgs)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor				
Water Level Elevation (ft amsl)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor				
pH- field (S.U.)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor				
Specific Conductance- field (µmhos/cm)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor				
Temperature- field (°F)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor				
Fluoride	Reserved <sup>2</sup>	Reserved	Reserved	Reserved	Reserved	Reserved				
Magnesium	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved				
Sulfate	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved				
Total dissolved solids	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved				

<sup>1</sup> Monitor = Monitoring required, but no AQL or AL will be established in the permit.

2. Reserved = At the conclusion of eight (8) rounds of groundwater sampling; the permittee is required to submit an Ambient Groundwater Report and a permit amendment request to the GWS to propose AQLs and ALs in accordance with the Compliance Schedule (Section 3.0). Alert levels and aquifer quality limits shall be established as required in Sections 2.5.3.2.1 and 2.5.3.2.2.

	Semi-Aı	nual Complia		TABLE 4.1-7 ater Monitorin	g (in mg/L unless	otherwise noted)		
Parameter <sup>1</sup>	POC Well #	M14-GL	POC Well	# M15-GU	POC Well # N	M22-0	POC Well M23-UBF	
	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)
Depth to Groundwater (ft	Monitor <sup>2</sup>	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Water Level Elevation (ft amsl)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
pH- field (S.U.)		Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Specific Conductance- field (umhos/cm)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Temperature- field(°F)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
pH (lab)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Bicarbonate	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Calcium	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Carbonate	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Chloride	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Fluoride	4.0	3.2	4.0	3.2	4.0	3.2	4.0	3.2
Magnesium	Monitor	23	Monitor	44	Monitor	8.6	Monitor	69
Nitrate as nitrogen <sup>3</sup>	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Potassium	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Sodium	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Sulfate	Monitor	144	Monitor	126	Monitor	86	Monitor	411
Total dissolved solids	Monitor	874	Monitor	1359	Monitor	1094	Monitor	2392
Cation/anion balance	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor
Aluminum	Monitor	0.71	Monitor	0.71	Monitor	0.71	Monitor	0.71
Antimony	0.006	0.0048	0.006	0.0048	0.0076	Monitor	0.006	0.0048
Arsenic <sup>4</sup>	0.05	0.026	0.05	0.026	0.05	0.026	0.05	0.026
Barium	2.0	1.6	2.0	1.6	2.0	1.6	2.0	1.6
Beryllium	0.004	0.0032	0.0043	0.0032	0.004	0.032	0.004	0.0032
Cadmium	0.005	0.004	0.02	Monitor	0.02	Monitor	0.005	0.004
Chromium (total)	0.10	0.08	0.10	0.08	0.10	0.08	0.10	0.08
Cobalt	Monitor	0.005	Monitor	0.005	Monitor	0.005	Monitor	0.005
Copper	Monitor	0.51	Monitor	0.51	Monitor	0.51	Monitor	0.51

		<del>,</del>			<del></del>	<del>,                                    </del>	<del>,</del>		
١	Iron (total)	Monitor	2.2	Monitor	2.2	Monitor	2.2	Monitor	2.2
- [	Lead	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04

Parameter	POC Well #	M14-GL	POC Well	l # M15-GU	POC Well	# M22-O	POC Well	POC Well # M23-UBF	
	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	
Manganese	Monitor	0.22	Monitor	0.22	Monitor	0.22	Monitor	0.22	
Mercury	0.002	0.0016	0.002	0.0016	0.002	0.0016	0.002	0.0016	
Nickel	0.1	0.08	0.1	0.08	0.1	0.08	0.10	0.08	
Selenium	0.05	0.04	0.05	0.04	0.05	0.04	0.05	0.04	
Thallium	0.002	0.0016	0.002	0.0016	0.01	Monitor	0.012	Monitor	
Zinc	Monitor	2.5	Monitor	2.5	Monitor	2.5	Monitor	2.5	
Adjusted Gross Alpha <sup>5</sup>		· · · · · · · · · · · · · · · · · · ·							
(pCi/L)	15	12	15	12	15	12	15	12	
Radium 226 + 228 (pCi/L)	5	4	5	4	5	4	5	4	
Uranium Isotopes <sup>6</sup> (pCi/L)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	
Uranium, Total (μg/L)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	
Total petroleum hydrocarbons- diesel	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor	
Benzene	0.005	0.004	0.005	0.004	0.005	0.004	0.005	0.004	
Ethylbenzene	0.7	0.56	0.7	0.56	0.7	0.56	0.7	0.56	
Toluene	1.0	0.08	1.0	0.08	1.0	0.08	1.0	0.08	
Total Xylene	10	8	10	8	10	8	10	8	

- 1 Metals must be analyzed as dissolved metals.
- 2. Monitor = Monitoring required, but no AQL or AL will be established in the permit.
- 3. Nitrate-nitrite as N may be determined as the sum of nitrate (EPA 352) plus nitrite (EPA 354) expressed as N.
- 4. The Alert Level for Arsenic is a narrative standard that is applied in order to protect downgradient users and will be revised, as necessary, in accordance with Section 2.5.7 and Section 3.0 to ensure that the UPL of 0.01 mg/L is not exceeded at the downgradient edge of the State Mineral Lease Land.
- If the gross alpha particle activity is greater than the AL or AQL, then calculate the adjusted gross alpha particle activity. The adjusted gross alpha particle activity is the gross alpha particle activity, including radium 226, and any other alpha emitters, if present in the water sample, minus radon and total uranium

(the sum of uranium 238, uranium 235 and uranium 234 isotopes). The gross alpha analytical procedure (evaporation technique: EPA Method 900.0) drives off radon gas in the water samples. Therefore, the Adjusted Gross Alpha should be calculated using the following formula: (Laboratory Reported Gross Alpha MINUS Sum of the Uranium Isotopes).

6. Uranium Isotope activity results must be used for calculating Adjusted Gross Alpha.

TABLE 4.1-7 Semi-Annual Compliance Groundwater Monitoring (in mg/L unless otherwise noted)											
Parameter <sup>1</sup>	POC Well	# M54-LBF	POC We	ll #M54-0	POC Well #	M52-UBF					
	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)					
Depth to Groundwater (ft	Monitor <sup>2</sup>	Monitor	Monitor	Monitor	Monitor	Monitor					
Water Level Elevation	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
pH- field) (S.U.)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Specific conductance - field) (umhos/cm)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Temperature -field(°F)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
pH (lab)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Bicarbonate	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Calcium	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Carbonate	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Chloride	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Fluoride	Reserved <sup>7</sup>	Reserved	Reserved	Reserved	Reserved	Reserved					
Magnesium	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved					
Nitrate as nitrogen <sup>3</sup>	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Potassium	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Sodium	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Sulfate	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved					
Total dissolved solids	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved					
Cation/anion balance	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor					
Aluminum	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved					
Antimony	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved					
Arsenic <sup>4</sup>	0.05	0.026	0.05	0.026	Reserved	Reserved					
Barium	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved					
Beryllium	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved					
Cadmium	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved					
Chromium (total)	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved					
Cobalt	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved					
Copper	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved					
Iron	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved					
Lead	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved					

Parameter	POC Well #	M54-LBF	POC Well	# <b>M54-O</b>	# M54-O POC Well # M52-UB			
	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)	AQL (mg/l)	AL (mg/l)		
Manganese	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved		
Mercury	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved		
Nickel	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved		
Selenium	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved		
Thallium	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved		
Zinc	Monitor	Reserved	Monitor	Reserved	Monitor	Reserved		
Adjusted Gross Alpha <sup>5</sup> (pCi/L)	Reserved	Reserved	Reserved	Reserved	Reserved	Reserved		
Radium 226 + 228 (pCi/L)	Reserved	Reserved	Reserved	Reserved	Reserved	Reserve		
Uranium Isotopes <sup>6</sup> (pCi/L)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor		
Uranium, Total (μg/L)	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor		
Total petroleum hydrocarbons- diesel	Monitor	Monitor	Monitor	Monitor	Monitor	Monitor		
Benzene	0.005	0.004	0.005	0.004	0.005	0.004		
Ethylbenzene	0.7	0.56	0.7	0.56	0.7	0.56		
Toluene	1.0	0.08	1.0	0.08	1.0	0.08		
Total Xylene	10	8	10	8	10	8		

<sup>7.</sup> Reserved = At the conclusion of eight (8) rounds of groundwater sampling; the permittee is required to submit an Ambient Groundwater Report and a permit amendment request to the GWS to propose AQLs and ALs in accordance with the Compliance Schedule (Section 3.0). Alert levels and aquifer quality limits shall be established as required in Sections 2.5.3.2.1 and 2.5.3.2.2.

		<b>TABLE 4.1-8</b>		
	In-S	itu BADCT Moni	toring	
Parameter	Monitoring Frequency	Alert Level	Method	Reporting Frequency
Injection Rate of well field	Monthly average	When Greater than 240gpm	Flow Meter	Monthly
Recovery Rate of well field	Monthly average	Maximum 300 gpm	Flow Meter	Monthly
Recovered Volume to Injection Volume	Daily	Recovered Volume is Less than Injected Volume*	Flow Meter	Weekly
Inward Hydraulic Gradient	Daily average	Less than 1- foot differential as a daily average	Transducer	Weekly
Maximum Injection Pressure	Daily	When Greater than 0.65 psi/ft.	Pressure Gauge	Weekly

<sup>\*</sup>Per monitoring of designated 4-pairs of observation/recovery wells (EPA UIC Class III)

#### 5.0 REFERENCES AND PERTINENT INFORMATION

The terms and conditions set forth in this permit have been developed based upon the information contained in the following, which are on file with the Department:

1. Public File for Curis Resources Inc., Application for Temporary Individual Aquifer Protection Permit, dated March 12, 2012, Public File No P-106360.

#### 6.0 NOTIFICATION PROVISIONS

#### 6.1 Annual Registration Fees

The permittee is notified of the obligation to pay an Annual Registration Fee to ADEQ. The Annual Registration Fee is based upon the amount of daily influent or discharge of pollutants in gallons per day as established by A.R.S. § 49-242.

#### 6.2 Duty to Comply [A.R.S. §§ 49-221 through 49-263]

The permittee is notified of the obligation to comply with all conditions of this permit and all applicable provisions of Title 49, Chapter 2, Articles 1, 2 and 3 of the Arizona Revised Statutes, Title 18, Chapter 9, Articles 1 through 4, and Title 18, Chapter 11, Article 4 of the Arizona Administrative Code. Any permit non-compliance constitutes a violation and is grounds for an enforcement action pursuant to Title 49, Chapter 2, Article 4 or permit amendment, suspension, or revocation.

#### 6.3 Duty to Provide Information [A.R.S. §§ 49-243(K)(2) and 49-243(K)(8)]

The permittee shall furnish to the Director, or an authorized representative, within a time specified, any information which the Director may request to determine whether cause exists for amending or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

#### 6.4 Compliance with Aquifer Water Quality Standards [A.R.S. §§ 49-243(B)(2) and 49-243(B)(3)]

The permittee shall not cause or contribute to a violation of an aquifer water quality standard at the applicable point of compliance for the facility. Where, at the time of issuance of the permit, an aquifer already exceeds an aquifer water quality standard for a pollutant, the permittee shall not discharge that pollutant so as to further degrade, at the applicable point of compliance for the facility, the water quality of any aquifer for that pollutant.

#### 6.5 Technical and Financial Capability

[A.R.S. §§ 49-243(K)(8) and 49-243(N) and A.A.C. R18-9-A202(B) and R18-9-A203(E) and (F)]

The permittee shall have and maintain the technical and financial capability necessary to fully carry out the terms and conditions of this permit. Any bond, insurance policy, trust fund, or other financial assurance mechanism provided as a demonstration of financial capability in the permit application, pursuant to A.A.C. R18-9-A203(D), shall be in effect prior to any discharge authorized by this permit and shall remain in effect for the duration of the permit.

#### 6.6 Reporting of Bankruptcy or Environmental Enforcement [A.A.C. R18-9-A207(C)]

The permittee shall notify the Director within five days after the occurrence of any one of the following:

- 1. The filing of bankruptcy by the permittee.
- 2. The entry of any order or judgment not issued by the Director against the permittee for the enforcement of any environmental protection statute or rule.

#### 6.7 Monitoring and Records [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A206]

The permittee shall conduct any monitoring activity necessary to assure compliance with this permit, with the applicable water quality standards established pursuant to A.R.S. §§ 49-221 and 49-223 and §§ 49-241 through 49-252.

#### 6.8 Inspection and Entry [A.R.S. §§ 41-1009, 49-203(B) and 49-243(K)(8)]

In accordance with A.R.S. §§ 41-1009 and 49-203(B), the permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to enter and inspect the facility as reasonably necessary to ensure compliance with Title 49, Chapter 2, Article 3 of the Arizona Revised Statutes, and Title 18, Chapter 9, Articles 1 through 4 of the Arizona Administrative Code and the terms and conditions of this permit.

#### 6.9 Duty to Modify [A.R.S. § 49-243(K)(8) and A.A.C. R18-9-A211]

The permittee shall apply for and receive a written amendment before deviating from any of the designs or operational practices specified by this permit.

### 6.10 Permit Action: Amendment, Transfer, Suspension & Revocation [A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

This permit may be amended, transferred, renewed, or revoked for cause, under the rules of the Department.

The permittee shall notify the Groundwater Section in writing within 15 days after any change in the owner or operator of the facility. The notification shall state the permit number, the name of the facility, the date of property transfer, and the name, address, and phone number where the new owner or operator can be reached. The operator shall advise the new owner or operators of the terms of this permit and the need for permit transfer in accordance with the rules.

#### 7.0 ADDITIONAL PERMIT CONDITIONS

#### 7.1 Other Information [A.R.S. § 49-243(K)(8)]

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall promptly submit the correct facts or information.

#### 7.2 Severability

#### [A.R.S. §§ 49-201, 49-241 through 251, A.A.C. R18-9-A211, R18-9-A212 and R18-9-A213]

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby. The filing of a request by the permittee for a permit action does not stay or suspend the effectiveness of any existing permit condition.

#### 7.3 Permit Transfer

This permit may not be transferred to any other person except after notice to and approval of the transfer by the Department. No transfer shall be approved until the applicant complies with all transfer requirements as specified in A.A.C. R18-9-A212(B) and (C).

# Exhibit Q-2 Closure and Post-Closure Plan

# FLORENCE COPPER, INC. UIC PERMIT APPLICATION FLORENCE COPPER PROJECT – PRODUCTION TEST FACILITY

**EXHIBIT Q-2 – CLOSURE AND POST-CLOSURE PLANS** 

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#### 1 Introduction

#### 1.1 Background

Florence Copper, Inc. (FCI) has prepared this Closure and Post-Closure Plan in response to the requirements of Item 25.J of the Individual Aquifer Protection Permit (APP) Application Form (Form, GWS 101, Rev. July 2011) and adapted as Exhibit Q-2 of the updated Underground Injection Control (UIC) Permit application (Application). This plan includes information that describes the closure and post-closure activities proposed by FCI for the Production Test Facility (PTF) proposed to be located on State land leased by FCI (Mineral Lease No. 11-26500). The closure and post-closure plans described in this Exhibit and the cost estimates presented in Attachment R of this Application are specific to the proposed PTF and are in addition to closure and post-closure plans and cost estimates previously submitted to the Arizona Department of Environmental Quality (ADEQ) and the United States Environmental Protection Agency (USEPA) for the surrounding property.

Information presented in this plan is more appropriately described as a closure strategy than a closure plan. Arizona Revised Statute (A.R.S.) § 49-243.A.8 requires applicants for individual permits to submit "closure strategies" with their applications, whereas Arizona Administrative Code (A.A.C.) R18-9-A209.B.3 requires an owner or operator of a permitted facility to submit a "closure plan" within 90 days after announcing an intent to permanently close all or part of the permitted facility.

In addition to this closure and post-closure plan, FCI is required to develop and comply with closure and post-closure plans in accordance the USEPA's UIC regulations and to comply with the reclamation requirements of the Arizona State Land Department (ASLD) as specified in its regulations and in Mineral Lease No. 11-26500. The focus of this plan is to close the PTF components in a manner that will protect groundwater in accordance with APP and UIC regulations and that will be consistent with ASLD requirements.

#### 1.2 PTF Description

The proposed components of the PTF include:

- PTF well field including four injection wells, nine recovery wells, seven observation wells, four multi-level sampling wells, well heads, piping, and liners.
- Pipeline corridor including liner, sumps, a pipeline for pregnant leach solution (PLS), and a pipeline for raffinate/lixiviant.
- Beneficiation area including:
  - Sulfuric acid delivery area, tank, transfer pump;
  - Dry lime delivery area, mixing tank, transfer pump;
  - Raffinate tanks, transfer pumps;
  - PLS tanks, transfer pumps; and
  - Solvent extraction/electrowinning (SX/EW) plant.
  - \*\*Note: All components listed under "Beneficiation Area" are located on impermeable liners and either drain directly to the runoff pond or drain to lined sumps for collection and return to the runoff pond.
- Runoff pond with sump and sump pump serving the beneficiation area.
- Water impoundment with mechanical evaporators.
- Motor control center.
- Modular trailers for offices, control rooms, etc.
- Groundwater supply well.

- Potable water tank and pump.
- Fire water tank and fire water pump.
- Low Expansion Foam fire suppression system.
- Diesel generators (portable).
- Septic holding tank.
- Overhead electric power supply.
- Security fencing around the beneficiation area and the water impoundment.
- Seven Point of Compliance (POC) wells.

#### 1.3 Existing Facilities

There are no known existing discharging facilities located within the Pollutant Management Area (PMA), but there are existing features (wells, core holes, and underground workings) shown on Figure B-1 of this Application that are associated with exploration activities that were conducted in the 1970s and 1990s. Some of the existing wells and core holes will be abandoned in preparation of the PTF well field as described below. All other features will be unaffected by the development and operation of the PTF and will remain subject to the closure and post-closure requirements of APP No. 101704 and UIC Permit No. AZ396000001.

All wells and core holes within 500 feet of any injection well or recovery well located within the PTF well field will be abandoned before lixiviant injection may begin. They will be abandoned in accordance with Sections Q.2 through Q.4 of the Attachment Q, Plugging and Abandonment Plan (Well Abandonment Plan) included in the updated UIC application. As shown on Figure A-9 of the updated UIC application, some of the wells and core holes to be abandoned in advance of PTF operations are located south of the PMA, on FCI property.

#### 1.4 Closure Objective

The closure objective, generally stated, is to ensure compliance with the requirements of A.R.S. §§ 49-243 B.2 and B.3 by preventing discharges of any pollutant that will cause or contribute to a violation of an Aquifer Water Quality Standard (AWQS) at the applicable POC, or that will further degrade at the applicable POC the quality of any aquifer that at the time of permit issuance violates the AWQS for that pollutant. To achieve the stated objective, FCI proposes to restore groundwater in the injection and recovery zone (IRZ) in which injection and recovery of in-situ copper recovery (ISCR) solutions are injected during PTF operations. The groundwater will be restored to a quality where constituents with AWQS meet the AWQS or preoperational concentrations if the pre-operational concentrations exceed the AWQS. Restoring groundwater to that high quality results in a reduction of all groundwater constituents, not just constituents with AWQS. FCI also proposes to close surface facilities in a manner that will prevent contamination of the soil that could cause an exceedance of the pre-determined Soil Remediation Levels (SRLs) for residential property as listed in Appendix A of the Arizona Soil Remediation Standards and the Groundwater Protection Limits (GPLs) established by ADEQ.

This closure strategy addresses all components of the PTF, including APP-exempt facilities, to provide a comprehensive view of all proposed closure activities. This strategy and the related cost estimates provided in Attachment R of the updated UIC Application therefore address closure activities required by the APP, UIC, and ASLD programs. To avoid duplicative financial assurance, it is anticipated that the total amount of financial assurance provided to ADEQ as shown in Attachment R will be reduced by the amounts covered by requests, if any, of the USEPA and the ASLD for separate financial assurance instruments.

#### 2 Description of Closure Activities

The following describes proposed activities for achieving the closure objective described in Section 1.4.

#### 2.1 Closure Activities in the PTF Well Field

Closure activities in the PTF well field will occur in order of the following three steps: (1) restoration of groundwater quality in the IRZ to levels meeting AWQS or pre-operational concentrations if the pre-operational concentrations exceed AWQS; (2) closure (abandonment) of all PTF wells in accordance with the Well Abandonment Plan; and (3) closure of related surface facilities in the well field, including the pipeline corridor shown on Figure B-1.

Once the injection of lixiviant (raffinate specifically prepared for injection) is begun, the APP and the UIC Permit will require that hydraulic control be maintained in the portion of the oxide zone (IRZ) in which injection has occurred from the time that injection began until the groundwater quality in the IRZ has been restored to a quality that meets closure criteria specified in the two permits. Groundwater restoration will begin after the scheduled operations have been completed and after a notice is given in accordance with A.A.C. R18-A209.B.2.

As explained below, the groundwater restoration process involves rinsing the IRZ to reduce constituent concentrations to levels that meet AWQS or pre-operational concentrations if the pre-operational concentrations exceed AWQS. The groundwater pumped from the IRZ will flow through the same tanks, piping, and equipment as used during normal operations and will serve to rinse the tanks, piping, and equipment with increasingly high quality water over a period of several months. As a result, tanks, piping, and equipment will have been thoroughly rinsed by the time that ADEQ and USEPA approve the restoration and authorize the abandonment of the wells. This will allow the removal of all tanks, piping, equipment, and liners from the well field to the runoff pond to commence simultaneously with the abandonment of the wells. For contingency purposes, however, the last PTF components to be dismantled will be, in order, the runoff pond and the water impoundment.

#### 2.1.1 Groundwater Restoration Process

The following is the process proposed for groundwater restoration. It assumes a notice of permanent cessation has been given in accordance with A.A.C. R18-A209.B.2 and a closure plan has been submitted in accordance with A.A.C. R18-A209.B.3.

- 1. Restoration of groundwater within the IRZ will begin after lixiviant injection has been discontinued. Restoration will be accomplished by using groundwater to sweep residual ISCR solutions into recovery wells. The groundwater may be pulled from the aquifer surrounding the IRZ or it may be pumped from nearby wells and then injected into the IRZ. Injection may occur with or without neutralizing material such sodium bicarbonate or other non-hazardous neutralizing agents. The duration, rate, and extent of injection and neutralization will vary as the concentrations of sulfate and other constituents detected in ISCR solutions in the recovery well header vary during the restoration process. Injection may occur through the wells used for injection during the PTF's operations, or the injection wells may be converted for use as recovery wells and vice versa in order to increase the rate of restoration throughout the IRZ.
- 2. As groundwater restoration nears completion, all injection wells will be converted to recovery wells to ensure that concentrations in recovery well header(s) are representative of groundwater quality in the IRZ.
- 3. Rinsing of the IRZ will continue and sulfate concentrations in the recovery well header solution will be periodically sampled.
- 4. When sulfate concentrations in the recovery well header solution decline below 750 milligrams per liter (mg/L), a sample of header water will be collected and analyzed for the Level 2 parameters (all parameters listed in Section 4.1, Table 4.1.7 of Temporary APP No. 106360 and Table P-4 of Attachment P of this Application).

- 5. Samples will be periodically collected from the recovery well header(s) and analyzed for Level 2 parameters until all constituents with AWQS either meet the AWQS or pre-operational concentrations if the pre-operational concentrations exceed the AWQS. (Pre-operational concentrations will be obtained by collecting groundwater samples from all PTF wells prior to the commencement of operations and analyzing the samples for all Level 2 parameters.) The "indicator sulfate concentration" will be the sulfate concentration in the recovery well header(s) existing at the time that the Level 2 analysis indicates that constituents with AWQS meet the AWQS or meet pre-operational background concentrations if those concentrations exceed the AWQS. After the indicator sulfate concentration has been determined, each well will be sampled for sulfate. Hydraulic control will continue until the sulfate concentration at each well is determined to meet the indicator sulfate concentration or alternate concentration as explained below. Provided that hydraulic control of the IRZ will be maintained, pumping from any well may be suspended when groundwater quality at that well is determined to meet the indicator sulfate concentration or alternate concentration.
- 6. Once the sulfate concentration at each well is less than the indicator sulfate concentration or alternate concentration, hydraulic control will be suspended at all wells in the IRZ for 30 days.
- 7. After 30 or more days have elapsed, the recovery wells will be re-energized and the sulfate concentration in solutions in the recovery well header(s) will be analyzed for sulfate. If the sulfate concentration(s) are equal to or below the indicator sulfate concentration or alternate concentration, the closure criteria will be deemed to have been met and the rinsing and maintenance of hydraulic control of the IRZ will be discontinued.
- 8. A closure report documenting the results of the restoration process will be submitted to ADEQ and USEPA and closure (abandonment) of the PTF wells will commence promptly after ADEQ and USEPA have reviewed the report and have authorized the abandonment of the wells.

The concept of using a well-specific alternate to the sulfate indicator concentration is based on the recognition that the sulfate concentration in some wells may be higher than the sulfate indicator concentration due to well-to-well variability in sulfate concentrations. A well would be eligible for an alternate concentration only if the sulfate concentration is less than 750 mg/L and the constituents meet AWQS or pre-operational concentrations if they exceed the AWQS.

#### 2.1.2 Well Closure

The wells located within the PTF well field will be closed in accordance with the schedule described in Section 3 below if APP No. 101704 and UIC Permit No. AZ396000001 are not amended to authorize commercial ISCR operations prior to the expiration of the temporary APP for the PTF. If the permits are amended to authorize commercial ISCR operations, the wells in the PTF well field will be subject to the requirements of those permits. If the wells are required to be closed within the term of the temporary APP, they will be abandoned in accordance with the Plugging and Abandonment Plan (Well Abandonment Plan), Attachment Q of the updated UIC Application. The Well Abandonment Plan is based on requirements of A.A.C. R12-15-816, administered by the Arizona Department of Water Resources (ADWR), and 40 CFR 146.10, administered by the USEPA.

#### 2.1.3 Closure of Surface Facilities

Once the PTF wells have been abandoned in accordance with the Well Abandonment Plan, equipment in the well field not previously removed as part of the well abandonment process will be removed. Such equipment may include electrical equipment, power lines and poles; tanks; pipes; and all liners within the well field. Similar removal activities will occur throughout the PTF. During the removal process, some liquid and solid residues may be generated such as the removal of accumulated dust from liners. Such liquids and solid residues will be placed in the runoff pond or water impoundment, or shipped to appropriately licensed off-site disposal facilities.

Due to the extensive use of liners, containment sumps and other devices, it is anticipated that soil contamination will be minimal and that the PTF soils will qualify for clean closure in accordance with A.A.C. R18-9-A209.B.3. As liners are removed, they will be inspected for evidence of holes, tears, or defective seams that may have leaked. Soil in the area beneath the liner will be inspected and samples will be collected and analyzed in accordance with a site investigation plan previously submitted to and approved by ADEQ, as required by A.A.C. R18-9-A209.B.3. It is anticipated that the plan will require more intense sampling and analysis in any area where visible contamination is apparent (e.g., moist spots beneath liners) and a broader grid sampling approach where contamination is not apparent. Estimates of sampling costs are included in the closure cost estimates provided in Attachment R of this Application. The soil investigation plan will require that ADEQ be promptly provided a remediation plan if the soil sampling and analysis described above provides verification of an exceedance of an SRL or a GPL, and that ADEQ's approval be obtained prior to implementing the plan.

Decommissioned power poles, lines, and electrical equipment may be salvaged. Clean liners and pipes may also be salvaged or sent to facilities that recycle such material. All material that cannot be reused or salvaged will be transported to an appropriately licensed facility for disposal. Although the salvage of liners and piping is anticipated, the cost estimates in Attachment R include the cost of disposal for those items.

Once all equipment, liners, and other materials have been removed from the well field, pipeline corridor, and other PTF components, disturbed areas will be tested, backfilled as needed, disked, and a grader or other suitable equipment will level and contour the areas and any related berms to grades that are consistent with pre-development grades. The areas will then be prepared for seeding. Seeding of disturbed or reclaimed areas will occur only between September 15 and November 30.

#### 2.2 Materials Management

Closure of the PTF components will require safe handling and disposal of all solutions associated with the facilities. Process tanks and the runoff pond will be emptied of any remaining solution. All solutions will be shipped off site for use or disposal in accordance with applicable regulations, or they will be neutralized and placed in the water impoundment. As the IRZ restoration process proceeds, the emptied tanks and ponds will have been rinsed with water produced during the restoration process and the rinse water will be placed in the water impoundment.

Unused electrowinning reagents, fuels, lubricants, and other chemicals along with warehoused materials will be packaged in accordance with Department of Transportation regulations and shipped off site or disposed of in accordance with applicable regulation. The closure objective is to have all chemicals removed off site and disposed of in a manner that meets all applicable codes and regulations.

#### 2.3 Soil Management

Consistent with the ADEQ Clean Closure Guidance (December 2004) and A.A.C. R18-9-A209.B.3, a site investigation plan for evaluating the quality of the soil and the vadose zone after facilities have been removed will be developed for ADEQ's review and approval before closure is begun.

All closure activities will be designed and conducted in accordance with applicable criteria in the Best Available Demonstrated Control Technology (BADCT) Guidance Manual. All closure activities will be conducted in a manner to prevent spillage of contaminants onto soil and, as tanks and underlying liners are removed, underlying soil will be inspected for signs of leakage. The same process will apply to the liners of the pipeline corridor, the runoff pond, and the water impoundment. Soil samples will be collected and analyzed in accordance with the approved site investigation plan. Soil cleanup (remediation) plans will be submitted for ADEQ approval in areas where residential SRL or GPL exceedances are verified. The remediation plans will be designed to achieve constituent levels that will be consistent with the expected post-closure use.

After remediation plans have been implemented and residual soil conditions are approved by ADEQ, the excavated area will be backfilled, disked, and leveled consistent with the area's pre-development grade. Seeding of the area will occur only between September 15 and November 30.

#### 2.4 Closure Monitoring

Closure monitoring will consist of physical inspections of surface facilities and monitoring of groundwater quality at the POC wells and supplemental monitoring wells during the closure period.

Inspection monitoring of surface facilities will continue through the closure period at each of the locations and at the frequencies specified in Temporary APP No. 106360 and the UIC Permit until liquid and solid residues have been removed from the facilities being monitored. POC well and supplemental monitoring well monitoring will be in accordance with the requirements of the temporary APP at the seven proposed POC wells listed in Temporary APP No. 106360 and the seven supplemental monitoring wells identified in the UIC Permit. The POC well and supplemental monitoring well monitoring programs will include two components (Level 1 and Level 2). Level 1 and Level 2 monitoring refer respectively to sampling and analysis of groundwater for the parameters listed in Tables 4.1-6 and 4.1-7 of Temporary APP No. 106360 and Tables P-3 and P-4 of Attachment P of the UIC Permit. The monitoring will occur quarterly for Level 1 parameters and annually for Level 2 parameters. The contingency plan will be implemented in accordance with the temporary APP and the UIC Permit throughout the closure period with respect to inspection monitoring as long as liquids and solid residues remain in the facilities being monitored. The contingency plan will be implemented with respect to the exceedance of Alert Levels (ALs) and Aquifer Quality Limits (AQLs) listed in Tables 4.1-6 and 4.1-7 of Temporary APP No. 106360 and Tables P-3 and P-4 of Attachment P of the UIC Permit throughout the closure period.

#### 2.5 Post-Closure Monitoring

The post-closure monitoring program will primarily involve groundwater monitoring at the seven POC wells and supplemental monitoring wells because, during closure, all injection and recovery wells will be properly abandoned. All other PTF components used to store or manage ISCR solutions will also be dismantled and removed after all material contained in the components have been removed. Inspection of the closed areas will occur during POC well and supplemental monitoring well monitoring events and will focus on POC wells, supplemental monitoring wells, signage, fences, re-vegetated areas, and storm water control measures. The inspections will also focus on the maintenance of conditions required to support disturbed areas to conditions existing prior to the development and operation of the PTF or to such other conditions as specified by ASLD in Mineral Lease 11-26500, as may be amended. Photographs and written reports will be used to document observed conditions.

Groundwater monitoring at the POC wells and supplemental monitoring wells will be conducted quarterly throughout the post-closure period with Level 1 monitoring conducted three quarters per year and Level 2 monitoring conducted one quarter per year. Data generated from each monitoring event will be promptly reviewed and the contingency plans referenced in Section 2.6 of Temporary APP No. 106360 and the UIC Permit will be followed in the event of an exceedance of an AQL.

#### 3 Closure/Post-Closure Schedules

#### 3.1 Closure Schedules

The following discussion of closure and post-closure schedules is based on closure requirements of the temporary APP.

During PTF operations, a site investigation plan and closure plan will be developed and submitted to ADEQ in accordance with A.A.C. R18-9-A209(B)(1) and A.A.C. R18-9- A209(B)(3), respectively. The site investigation and closure plan submitted to ADEQ will be submitted to USEPA for review and approval before closure operations commence. After FCI formally gives notice to ADEQ in accordance with A.A.C. R18-9-A209(B)(2), and to USEPA of its intent to permanently cease PTF operations, injection of lixiviant will

be discontinued. However, FCI will maintain hydraulic control at the IRZ until closure criteria specified in the temporary APP and the related UIC Permit have been met. FCI will also continue all monitoring required by the temporary APP and the related UIC Permit.

The closure schedule discussed below is based on the recognition that A.A.C. R18-9-A210(E) provides that a temporary APP expires after one year unless it is renewed, and that the permit may be renewed no more than one time. If the temporary permit is renewed, FCI proposes to operate the PTF for up to 14 months and to begin closure no later than the first day of the 15th month. For purposes of estimating the closure costs included in Attachment R of the updated UIC application, an estimate was prepared of the amount of sediment and liquid remaining in the water impoundment at the end of the 14th month and at the end of the 23rd month, following commencement of operations. The estimated amounts assume the PLS flow from the recovery wells during ISCR operations will be 300 gallons per minute (gpm), which is equivalent to the maximum design flow (expressed as gallons per day) and 250 gpm during the restoration phase.

It is estimated that up to seven to nine months will elapse between the time that lixiviant injection ceases and the time that groundwater is determined to meet the closure criteria (See Step 7 of Section 2.1.1 above). As noted in Step 8 of Section 2.1.1, abandonment of the PTF wells may not proceed until ADEQ and USEPA review a report describing the results of the IRZ closure activities and approve the abandonment of the wells.

It is estimated that up to two months will be required to abandon the wells and complete closure of all PTF surface facilities once ADEQ and USEPA approve the abandonment of the wells and contractors have mobilized to the site. The relatively short time estimate is based on the recognition that tanks and piping will have been well rinsed before the approval to abandon the wells is given. That will allow closure of most surface facilities to begin at the same time that well abandonment begins. Closure of the runoff pond and the water impoundment will begin promptly after closure of the well field commences and after they are determined to be no longer needed to receive rinse water or other liquids generated during the closure process. FCI will submit a notice and report, with documentation, in accordance with the requirements of A.A.C. R18-9-A209(C) within 30 days following completion of the closure plan.

#### 3.2 Post-Closure Monitoring Schedule

The post-closure monitoring schedule will be synchronized, to the extent practicable, with the applicable closure/post-closure schedule established under APP No. 101704 and UIC Permit No. AZ396000001 requirements. Temporary APP No. 106360 allows a five-year post-closure period, as described below. Accordingly, Attachment R includes a cost estimate for a five-year period.

- Years 1 4: Three quarterly Level 1 sampling events and one quarterly Level 2 event will be conducted each year. Quarterly reports will be submitted to ADEQ and USEPA.
- Year 5: Three quarterly Level 1 sampling events and one quarterly Level 2 event will be conducted. Quarterly reports will be submitted to ADEQ and USEPA. In addition, during the first quarter, a report will be submitted to ADEQ and USEPA that summarizes trends and describes significant events observed during the previous four years. Based on the information provided in the report, FCI will recommend continuation of post-closure monitoring or cessation of post-closure monitoring. If FCI recommends continuation of monitoring, the recommendation may include proposed changes in the scope and frequency of analysis. Within 180 days following its receipt of the report, ADEQ and USEPA will advise FCI of their decisions. The monitoring program will continue throughout the fifth year until such time that ADEQ and USEPA announces their decisions. If ADEQ's and USEPA's decision involves continuation of the monitoring program for the next five-year period, or portion thereof, FCI will adjust the cost estimates to reflect estimated costs for implementing that decision, and will adjust the financial assurance required for the period covered by ADEQ's and USEPA's decision.

During POC monitoring events, visual inspection of surface facilities will be conducted. Inspections will include, as appropriate, POC wells, signage, fences, re-vegetated areas, and storm water control measures. Conditions noted during inspections will be documented using inspection forms. Photographs and written reports will be used to document completion of indicated repairs. Repairs will be performed as indicated by the inspection monitoring program and will be documented in quarterly reports submitted to ADEQ and USEPA. FCI will submit a notice and report, with documentation, in accordance with the requirements of A.A.C. R18-9-A209(C) within 30 days following completion of the post-closure plan.

#### 4 Closure/Post-Closure Cost Estimates

Attachment R of the updated UIC application includes closure and post-closure cost estimates for the PTF. Although the piping and lining may be recycled, the closure cost estimates reflect the estimated cost of disposing of the material in an appropriately licensed landfill. The post-closure costs included in Attachment R assume that the seven POC wells and seven supplemental monitoring wells will be monitored for five years and that the ADEQ and USEPA will agree that post-closure monitoring for purpose of the temporary APP and UIC Permit will not be required beyond the fifth year. At the expiration of the postclosure requirements, all POC wells except M54-O and M54-LBF would remain in service for POC monitoring as required by APP No. 101704 and UIC Permit No. AZ396000001. The supplemental monitoring wells and wells M54-O and M54-LBF are not currently included as POC wells or supplemental monitoring wells in those permits and are within the PMA established by APP No. 101704. If commercial operations proceed following completion of PTF operations, the supplemental monitoring wells and wells M54-LBF and M54-O will be plugged and abandoned because they are located within the mineralized area that will be mined during commercial operations. If ADEQ and USEPA require an extension of the five-year post-closure monitoring, FCI will submit to ADEQ and USEPA estimated costs of conducting the additional post-closure monitoring and will submit appropriate financial assurance.

#### Exhibit Q-3

**EPA Forms 7520-14, Plugging and Abandonment Plans** for Existing Wells and Core Holes

PLUGGING AND ABANDONMENT PLAN  Name and Address of Facility   Plorence Copper Project   1757 W Hunt Hwy, Florence Arizona 85132									O	MB No. 2040	0042 Ap	proval Expire	s 11/30/2014	ļ		
Name and Address of Facility Florence Copper Project  Locate Well and Outline Unit on Section Plat - 460 Acres  N  Section Plat - 460 Acres  N  Surface Location Description  Set fail of SW 14 of SW 14 of SW 14 of Section 28 Township 4S Range 9E  Locate Well and Outline Unit on Section Plat - 460 Acres  N  Surface Location Description  Set fac of SW 14 of SW 14 of SW 14 of Section 28 Township 4S Range 9E  Locate well in two directions from nearest lines of quarter section and drilling unit Surface Location (US) N. Line of quarter section  TYPE OF AUTHORIZATION  Individual Permit  Area Permit  Rule  Number of Wells  Well Number   SSS  CASING AND TUBING RECORD AFTER PLUGGINO  SIZE WY (LBFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  N/A N/A N/A NA	<b>⊕</b> E	PA		DLI		W	ashington,	DC 204	60		AM					
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1575 W Hunt Hwy, Florence Arizona 85132   1575 W Hunt Hwy, Florence, Arizona 85132   1575 W Hunt Hwy, Florenc																
Arizona   Pinal   AZ396000001  Saction Plat - 640 Acres N				zona 85132								na 85132				
Section Plat - 640 Acros  N  Surface Location Description  Set 144 of SW 114 of NE 114 of SW 114 of Section 28. Township 4S. Range 9E  Locate well in two directions from nearest lines of quarter section and drilling unit surface.  Surface  Surface  Surface  Surface  Location 1200 ft. frm (N/S) N. Line of quarter section and drilling unit surface.  Type CF AUTHORIZATION  WELL ACTIVITY  Individual Permit	1483			2		State			C	ounty		grafith deservations and deserva-				
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SE   1/4 of   SW   1/4 of   NE   1/4 of   SW   1/4 of   Section   28   Township   S   Range   9E			N													
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Name and Official Title (Please type or print)

Signature

Date Signed

2102/2012

Dan Johnson, VP Environment and Technical Services

#### **Paperwork Reduction Act Notice**

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB control numbers for EPA's regulations are listed in 40 CFR Part 9 and 48 CFR Chapter 15.

Please send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Office of Environmental Information, Collection Strategies Division, U.S. Environmental Protection Agency (2822), Ariel Rios Building, 1200 Pennsylvania Ave., NW., Washington, DC 20460; and to the Office of Information and Regulatory Affairs, Office of Management and Budget, 725 17th Street, NW., Washington, DC 20503, Attention: Desk Officer for EPA. Please include the EPA ICR number and OMB control number in any correspondence.

#### PROPOSED PLUGGING AND ABANDONMENT AS-BUILT 28S COREHOLE 28S COREHOLE BACKFILLED WITH NATIVE MATERIAL TO 5 FEET UPPER BASIN FILL UNIT (UBFU) UPPER BASIN FILL UNIT (UBFU) 280 FEET -280 FEET -MIDDLE FINE-GRAINED UNIT (MFGU) MIDDLE FINE-GRAINED UNIT (MFGU) 310 FEET -310 FEET -5.74-INCH DIAMETER BOREHOLE TO UNKNOWN DEPTH 5.74-INCH DIAMETER BOREHOLE TO UNKNOWN DEPTH (ESTIMATED 650 FEET) (ESTIMATED 650 FEET) LOWER BASIN LOWER BASIN FILL UNIT (LBFU) FILL UNIT (LBFU) 630 FEET ---630 FEET -BEDROCK OXIDE ZONE BEDROCK OXIDE ZONE - CEMENT GROUT - 2.97-INCH DIAMETER COREHOLE - 2.97-INCH DIAMETER COREHOLE - 2227 FEET - 2227 FEET

HALEY& CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

28S COREHOLE DIAGRAM



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I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Dan Johnson, VP Environment and Technical Services

Signature

Date Signed

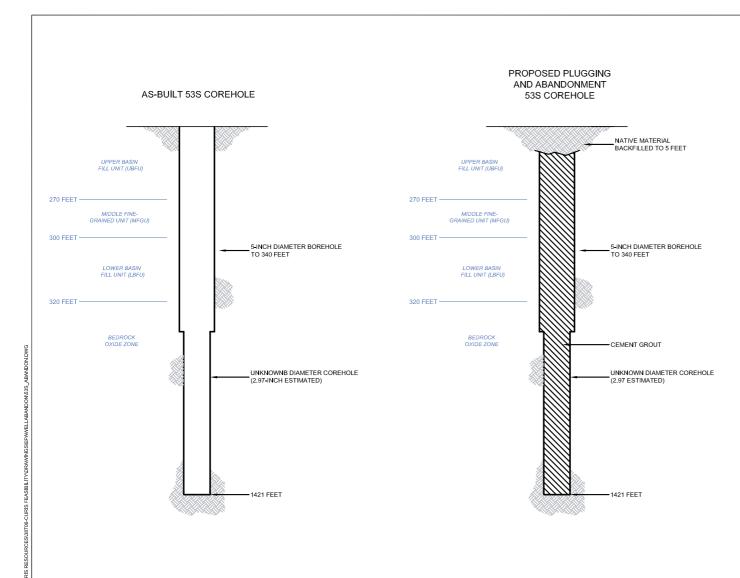
09/07/2012

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HALEY CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

53S COREHOLE DIAGRAM



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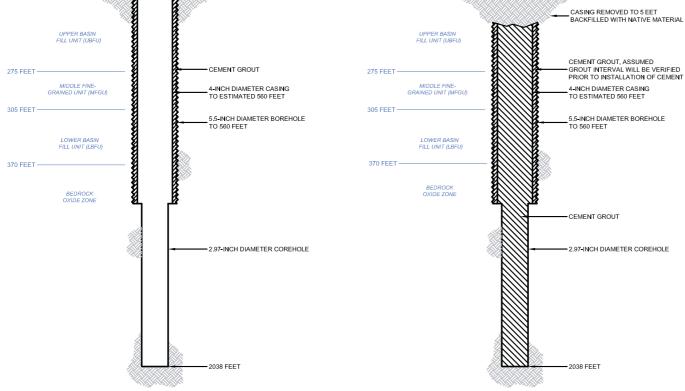
United States Environmental Protection Agency Washington, DC 20460

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Name and Official Title (Please type or print)  Dan Johnson, VP Environment and Technical Services														
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The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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# PROPOSED PLUGGING AND ABANDONMENT AS-BUILT 94S COREHOLE 94S COREHOLE



HALEY& CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

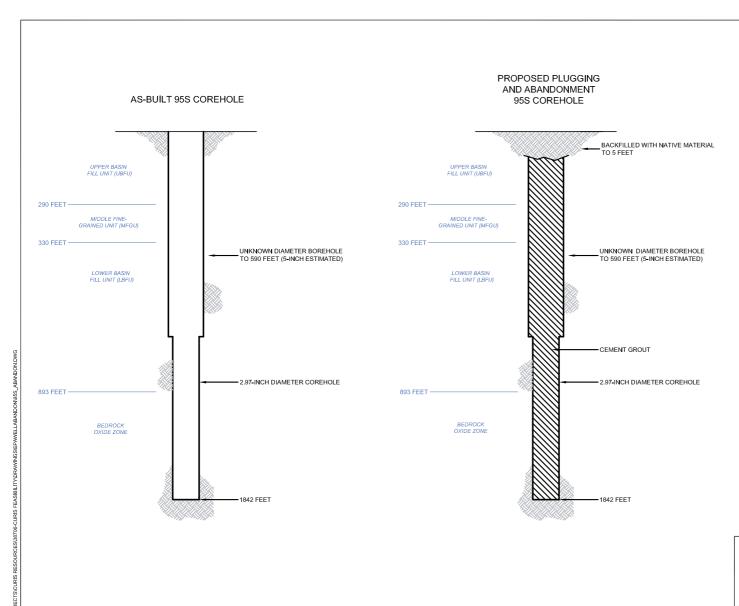
94S COREHOLE DIAGRAM



<b>⊕</b> E	PA		PLU	United Sta		n, DC 20460	)	202310020	.AN			
Flore	nd Address of Fa nce Copper Pro W Hunt Hwy, I	ject	zona 85132			Curis Re	sourc	ess of Owne ces (Arizon Hwy, Flor		na 85132		
	ocate Well and C		1	State Ari	zona	•	and the control	ounty inal		property to the Asset	Number 6000001	
		N		100	ace Location							
Ιг	<del></del>	Ť		SW	1/4 of SE 1	/4 of <u>NW</u> 1	4 of 5	SW 1/4 of	Section 28	Township	4S Range	9E
	·	-  - -  - -  -	-	Surfa	ntion 1180 ft. 920 ft. from	frm (N/S) N (E/W) W	Lir Line o	ne of quarte	section			
w –	$\rightarrow \rightarrow \rightarrow$	<del></del>	E I			F AUTHORIZ	OITA	N			ACTIVITY	
			L_i_		Individual P	ermit			CLA:			
	1.11	I			Area Permit Rule				CLA:	ss II Brine Dispos	al	
	-+		-+-			12				inhanced Re		
-			<u> </u>	Nu	mber of Well	s <u>1</u>				lydrocarbon		
	_								V CLA			
		s		1	NA Name				Well Num	955		
_					e Name					the second second second second	E 05115117 D	
				AFTER PLUG				METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE	WT (LB/FT)		N WELL (FT)	TO BE LEFT	IN WELL (FT)		SIZE	✓ Th	e Balance Me	thod		
NA	NA	NA		NA		NA	-		e Dump Baile			
-						4	-	[ ]	Two-Plug N	lethod		
						1		U Oti	ier			
	CEMENTING	TO PLUG AND	ABANDON DA	ATA:	PLUG	#1 PLUG	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of	Hole or Pipe in v	vhich Plug W	ill Be Placed (	inche:	2.97	5 est						
Depth t	o Bottom of Tub	ing or Drill Pi	pe (ft		NA	590						
	of Cement To Be				47	62.2						
-	/olume To Be Pu				60.23	79.8						
	ted Top of Plug ( ed Top of Plug (i	7			590 es		-					
	Vt. (Lb./Gal.)	r tagged it.)			15.6	15.6						
	ement or Other M	laterial (Class	III)		V V	V	-					
	LIS	T ALL OPEN H	IOLE AND/OR	PERFORATED			/ALS	WHERE CAS	ING WILL BE	VARIED (if a	inv)	
	From		1	То	45.1.000.000.000.000.000		No. of Contract of	From	T		То	
1842			590									
590			5									
Estimat	ed Cost to Plug	Welle										
\$13,7		vvens										
i i	certify under the	penalty of la	w that I have p	ersonally exa	Certifi		ith the	informatio	n submitted	in this docur	ment and all	
at in	ttachments and to formation is tru- ossibliity of fine	that, based or e, accurate, a	n my inquiry o nd complete.	f those individ I am aware th	luals immedi at there are s	ately respon	nsible	for obtaining	ng the inform	ation, I beli	eve that the	9
Name a	nd Official Title	(Please type	or print)		Signature	/		1			Date Signed	1
Dan Jo	ohnson, VP Env	ironment an	d Technical S	Services	7	\ (					09/02	12-12

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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HALEY& CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

95S COREHOLE DIAGRAM



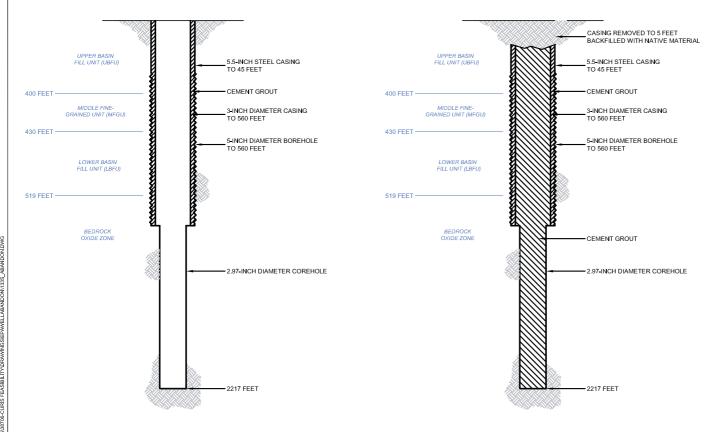
United States Environmental Protection Agency Washington, DC 20460

PLUGGING AND ABANDONMENT PLAN										
Name and Address of Facility	200 - 100 -	779, J. S. A. H. M.	1	Name and Ad	dress of Owne	r/Operator				
Florence Copper Project 1575 W Hunt Hwy, Florence Arizo	ona 85132				urces (Arizon ınt Hwy, Flor		a 85132			
Locate Well and Outline Unit on Section Plat - 640 Acres		State Arizona			County Pinal		200000000000000000000000000000000000000	Number 6000001		
N		Surface L	ocation D	escription			_			
		NE 1/4 c	of <u>SE</u> 1/4	of <u>NW</u> 1/4	of <u>SW</u> 1/4 of	Section 28	Township	4S Range	9E	
	-+-  -+-  -+-	Surface Location	730 ft. frr	n (N/S) N	om nearest line	r section	section and	drilling unit		
		202-00	TYPE OF	AUTHORIZAT	TION	10000	WELL A	ACTIVITY		
W	E	Indi	vidual Per	mit		CLAS	S I			
▎ ├ <b>┼</b> ╗├┼ <b>╌┠</b> ┼╌├		✓ Area	Permit			CLAS	IS II			
l	-4-1	Rule	9			□в	rine Dispos	al		
		Number	of Wells	1		□ E	nhanced Re	covery		
		Number	or wells [			□ н;	ydrocarbon	Storage		
			Laver -			V CLAS	S III			
s		Lease Nar	me NA			Well Numb	133S			
CASING AND TUBI	ING RECORD AFTER	PLUGGING	3		METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS	
SIZE WT (LB/FT) TO BE PUT IN	WELL (FT) TO BE	LEFT IN W	ELL (FT)	HOLE SIZ	E I Th	e Balance Met	de a d			
3 9.11-est. 0	555		, ,	5						
5.5 13.70-est. 0	40		The bump baller wethou							
J.J. TO.TO CSL	140		6.25 The Two-Plug Method Other							
						ner				
CEMENTING TO PLUG AND	ARANDON DATA:		PLUG #1	PLUG #	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of Hole or Pipe in which Plug Will			2.97 3						1 200 #/	
Depth to Bottom of Tubing or Drill Pipe										
Sacks of Cement To Be Used (each plug			NA   560							
Slurry Volume To Be Pumped (cu. ft.)	-		79.72	27.24						
Calculated Top of Plug (ft.)			560	5						
Measured Top of Plug (if tagged ft.)			560	5						
Slurry Wt. (Lb./Gal.)			15.6	15.6						
Type Cement or Other Material (Class II	1)		V	V						
LIST ALL OPEN HO	OLE AND/OR PERFOR	RATED INTE	Array	ID INTERVAL	S WHERE CAS	ING WILL BE	VARIED (if a	nv)		
From	То		U.S. 1. C. 1	2000/2007/2000/2007	From	MANUAL DESCRIPTION OF THE PARTY		To		
2217	560		1							
	5		- 1							
			11							
Estimated Cost to Plug Wells \$13,715										
I certify under the penalty of law attachments and that, based on i information is true, accurate, and possibliity of fine and imprisonm	my inquiry of those i d complete. I am aw	ly examined individuals ware that the	immediate	amiliar with ely responsi	ble for obtaini	ng the inform	ation, I belie	ve that the		
Name and Official Title (Please type or	print)	Sign	ature				T	Date Signed		
A CONTRACTOR OF THE PROPERTY O	in Johnson, VP Environment and Technical Services									

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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### PROPOSED PLUGGING AND ABANDONMENT AS-BUILT 133S COREHOLE 133S COREHOLE



ALDRICH

HALEY CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

133S COREHOLE DIAGRAM



							O	MB No. 2040-	0042 Ap	provai Expire	s 11/30/2014	
<b>\$EPA</b>		DI I		W	ashingtor	n, DC		Agency <b>ENT PL</b>	ΛNI			
Name and Address of	Eacility	PLC	JGGI	NG AN	D AD	200000		ess of Owne	4000000			
Florence Copper Pi 1575 W Hunt Hwy	oject	na 85132				Cu	ris Resour	ces (Arizona Hwy, Flore	a) Inc	na 85132		
				State	*		C	ounty		Permit	Number	
Locate Well and Section Plat - 640				Arizona	a		P	inal		AZ39	6000001	
	N			physological	Location							
	1 ! !			NE 1/4	of <u>NE</u> 1/	4 of	SW 1/4 of	SW 1/4 of	Section 28	Township	4S Range	9E
w		-		Surface Location and 1190 Ind ✓ Are	1040 ft. f ft. from ( TYPE OI ividual Pe a Permit	rm (f (E/W) F AU	N/S) S Li W Line of THORIZATIO	ne of quarter of quarter se	ction.	WELL A SS I SS II Irine Disposa Inhanced Re lydrocarbon	covery	
		لن			632.0				V CLA			
	s			Lease Na	me NA				Well Num	per 135MF		
C	ASING AND TUBI	NG RECOR	DAFTER	PLUGGIN	G			METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN W	VELL (FT)	Н	IOLE SIZE	✓ The	Balance Me	thod		
3 9.11-est.	0		371			5		1 =	Dump Baile			
5.5 13.70-est.	0		60			/0.08		Two-Plug N	lethod			
						]		Other				
						Ш				7	,	ī
-20-20-20-20-20-20-20-20-20-20-20-20-20-	G TO PLUG AND				PLUG #		PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #
Size of Hole or Pipe in			(inche:		2.97-es	st	3					-
Depth to Bottom of Tu Sacks of Cement To B					NA 64.5	-	376 14.2		<del> </del>			h
Slurry Volume To Be F		3)			82.72	-	18.21					
Calculated Top of Plus					376		5					
Measured Top of Plug					376		5					
Slurry Wt. (Lb./Gal.)					15.6		15.6					
Гуре Cement or Other	Material (Class II	I)			V		V					
L	ST ALL OPEN HO	LE AND/OR	PERFO	RATED INT	ERVALS A	AND I	NTERVALS	WHERE CAS	ING WILL BE	VARIED (if a	ny)	
From			To	(				From			То	
2095.5		376										
376		5										
						_						
Estimated Cost to Plu	Wells											
\$13,715	Wells											
			_									
					Certific	cati	on					
I certify under the	e penalty of law			ly examine	ed and am	fam	iliar with th					

Signature

Date Signed

09/07/2012

EPA Form 7520-14 (Rev. 12-11)

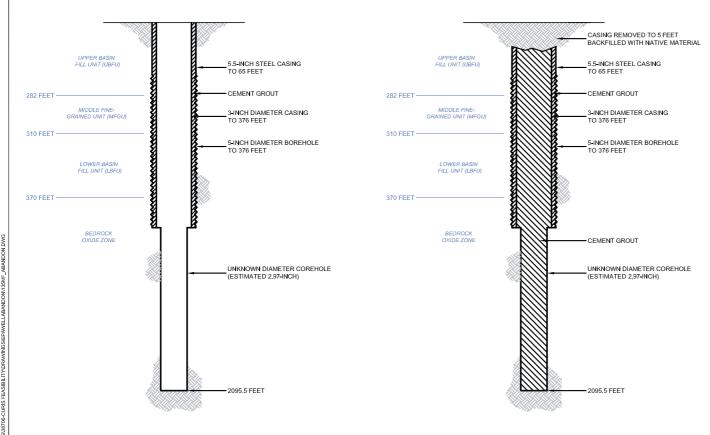
Name and Official Title (Please type or print)

Dan Johnson, VP Environment and Technical Services

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### PROPOSED PLUGGING AND ABANDONMENT AS-BUILT 135MF COREHOLE 135MF COREHOLE



ALDRICH

HALEY CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

135MF COREHOLE DIAGRAM

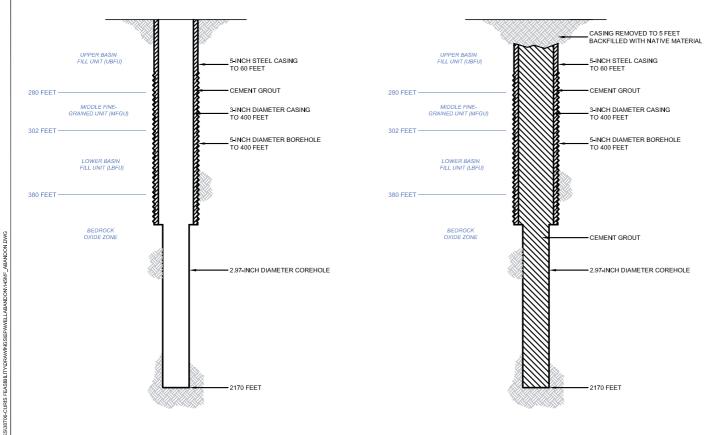


<b>≎EPA</b> PLI	United States I W JGGING AN	ashington,	DC 20460		AN			
Name and Address of Facility Florence Copper Project 1575 W Hunt Hwy, Florence Arizona 85132			Curis Resou	dress of Owne irces (Arizon: nt Hwy, Flore	a) Inc	ıa 85132		
Locate Well and Outline Unit on	State			County		2/10/00/00/00/00/00	Number	
Section Plat - 640 Acres	Arizona			Pinal		AZ39	6000001	
N	1	Location De	-5		Example:			-
	NE 1/4	of <u>NW</u> 1/4	of <u>SE</u> 1/4 o	f SW 1/4 of	Section 28	Township	4S Range	9E
	Surface Location	1020 ft. frn ft. from (E/	n (N/S) <u>S</u> /W) <u>E</u> Line	om nearest line Line of quarter e of quarter se	section			
w <del>                                  </del>	П		AUTHORIZATI	ION	П		ACTIVITY	
	1	ividual Perr a Permit	mit		CLA			
	Rul				-	ss II Irine Dispos	al	
	Land State	199			diameter.	nhanced Re		
	Numbe	r of Wells			A	lydrocarbon		
					V CLA	(집원 회에 있는 ) 경기 등을 하고 있다.	2018-00-162 <del>1</del> 7-01	
s	Lease Na	NA NA			Well Num	per 145MF		
CASING AND TUBING RECOR	D AFTER PLUGGIN	G		METH	The same of the sa	The state of the s	F CEMENT PI	LUGS
SIZE WT (LB/FT) TO BE PUT IN WELL (FT)	TO BE LEFT IN W	VELL (FT)	HOLE SIZE	☐ ☑ The	Balance Me	thad		
3 9.11-est. 0	395		5	_ =	e Dump Baile			
5 13.70-est. 0	55		6.25		Two-Plug N			
				Ott				
					00 80			
CEMENTING TO PLUG AND ABANDON D	ATA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Placed	(inche	2.97	3					
Depth to Bottom of Tubing or Drill Pipe (ft		NA CC 4	400					
Sacks of Cement To Be Used (each plug) Slurry Volume To Be Pumped (cu. ft.)		85.15	15.1			-		
Calculated Top of Plug (ft.)		400	5					
Measured Top of Plug (if tagged ft.)		400	5	1		-		
Slurry Wt. (Lb./Gal.)		15.6	15.6					
Type Cement or Other Material (Class III)		V	V					
LIST ALL OPEN HOLE AND/OF	PERFORATED INT	ERVALS AN		S WHERE CAS	ING WILL BE	VARIED (if a	ny)	
From	То			From			То	
2170 400								
400								
E-thorse decrease and the Physical Residence								
\$13,715								
		Certifica	ition					
I certify under the penalty of law that I have attachments and that, based on my inquiry information is true, accurate, and complete. possibliity of fine and imprisonment. (Ref.	of those individuals	s immediate	ly responsib	ole for obtaining	ng the inform	ation, I belie	ve that the	
Name and Official Title (Please type or print)	Sig	nature				T	Date Signed	
Dan Johnson, VP Environment and Technical		5		//			09/07	12012

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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### PROPOSED PLUGGING AND ABANDONMENT AS-BUILT 145MF COREHOLE 145MF COREHOLE



ALDRICH

HALEY CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

145MF COREHOLE DIAGRAM



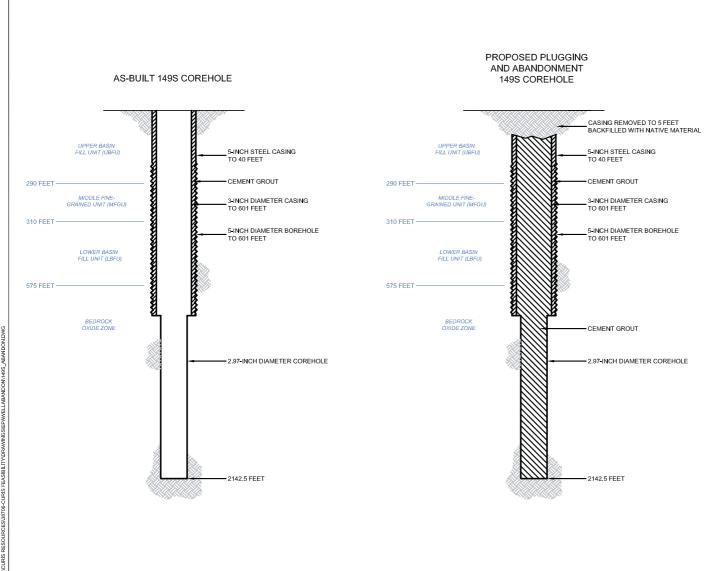
09/07/2012

Name and Address of Facility   Florence Arizona 85132   State   Curis Resources (Arizona) Inc   1575 W Hunt Hwy, Florence Arizona 85132   State   Curis Resource (Arizona) Inc   1575 W Hunt Hwy, Florence Arizona 85132   State   County   Permit Number   AZ396000001   Arizona   AZ396000001   Arizona   AZ396000001   AZ3960000001   AZ396000000000000000000000000000000000000	0.504		United States I			on Agency	•					
State   County   Pinal   Pin	<b>⇔EPA</b>	PLU				MENT F	LAN					
State   County   Plant   Huny, Florence Arizona 85132	Name and Address of Faci	lity			Name and A	ddress of Ov	ner/Operator					
Locate Well and Outline Unit on Section Plat - 649 Acres Plat - 649								na 85132				
Surface Location Description  No. 114 of SW, 114 of SW, 114 of SW, 114 of SW, 114 of Section 28. Township 4S. Range 9E.  Locate well in two directions from nearest lines of quarter section and drilling unit surface.  Surface  Location 770 ft. from (Nts) IN. Line of quarter section.  TYPE OF AUTHORIZATION  Individual Permit  Area Permit  Rule  Number of Wells  I. Area Permit  Rule  Size  WY (LBIFT)  TO BE PUTIN WELL (FT)  TO BE PUTIN WELL (FT)  TO BE LEFT IN WELL (FT)  The DEFAULT OF STANDARD PLUG #8 PLUG			- CONTRACTOR - CON	a		E-e-e-e-e-e-e-e-e-e-e-e-e-e-e-e-e-e-e-e		grocewowenicks.				
Number of Wells   Lease Name			Surface	Location D	Description	B-5-10-10-10-1						
Surface Location 770 ft. frm (N/S) N Line of quarter section and 950 ft. from (E/N) E Line of quarter section.  TYPE OF AUTHORIZATION Individual Permit   CLASS II		N	NE 1/4	of SW 1/4	of <u>NE</u> 1/4	of SW 1/4 o	f Section 28	Township	4S Range	9E		
S  CASING AND TUBING RECORD AFTER PLUGGING  CASING AND TUBING RECORD AFTER PLUGGING  WEIL WOLL RUBHT]  TO BE PUT IN WELL (FT)  3 9.11-est.  0 596  5 13.70-est.  0 35  6.25  The Dump Baller Method  The Two-Plug Method  Other  CEMENTING TO PLUG AND ABANDON DATA:  PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG  Size of Hole or Pipe in which Plug Will Be Placed (inche  2.97  3 PLUG #4 PLUG #5 PLUG #6 PLUG  Perh to Bottom of Tubing or Drill Pipe (ft  NA 601  Perh to Bottom of Tubing or Drill Pipe (ft  NA 601  Size of Hole or Pipe in Will General Pipe (ft)  Size of Mole or Pipe in Will General Pipe (ft)  Size of Mole or Pipe in Will General Pipe (ft)  Publication of Tubing or Drill Pipe (ft)  Size of Mole or Pipe (ft)  Publication  Size of Mole or Pipe (ft)  Publication  CEMENTING TO PLUG AND ABANDON DATA:  PLUG #1 PLUG #3 PLUG #3 PLUG #6 PLU	w		Surface Location and 950  Ind	ft. from (I TYPE OF ividual Pe	m (N/S) N E/W) E Lir AUTHORIZA	Line of qua	rter section section.	WELL . SS I	ACTIVITY			
CASING AND TUBING RECORD AFTER PLUGGING  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  3 9.11-est. 0 596 5  13.70-est. 0 35 6.25 The Two-Plug Method  5 17he Dump Bailer Method  The Dump Bailer Method  Other  CEMENTING TO PLUG AND ABANDON DATA: PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG dize of Hole or Pipe in which Plug Will Be Placed (inche: 2.97 3 Plug #4 Plug #5 PLUG #6 PLUG dize of Hole or Pipe in which Plug Will Be Placed (inche: 2.97 3 Plug #4 Plug #5 Plug #6 PLUG dize of Hole or Pipe in which Plug Will Be Placed (inche: 2.97 3 Plug #6 Plug	-++-		hamil 170000	er of Wells	1		CLA	Brine Disposal Enhanced Recovery Hydrocarbon Storage				
SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  3 9.11-est. 0 596 5  13.70-est. 0 35 6.25  CEMENTING TO PLUG AND ABANDON DATA: PLUG #1 PLUG #2 PLUG #3 PLUG #5 PLUG #6 PLUG #6 Plug in which Plug Will Be Placed (inche 2.97 3  Pupit to Bottom of Tubing or Drill Pipe (ft NA 601 601 5  Burry Volume To Be Demped (cu. ft.) 74.16 29.26  Pupit to Bottom of Plug (ft lagged ft.) 601 5  Burry Volume To Plug (ft lagged ft.) 15.6 15.6 15.6 15.6 15.6 15.6 15.6 15.6		3	Lease Na	ame NA			Well Number 149S					
3 9.11-est. 0 596 5 13.70-est. 0 13.70-est.	CASI	IG AND TUBING RECORD	AFTER PLUGGIN	G		ME	THOD OF EMP	LACEMENT O	F CEMENT P	LUGS		
Size of Hole or Pipe in which Plug Will Be Placed (inche: 2.97 3	SIZE WT (LB/FT) T	O BE PUT IN WELL (FT)	TO BE LEFT IN W	VELL (FT)	HOLE SIZ	E	The Balance M	ethod				
CEMENTING TO PLUG AND ABANDON DATA:    PLUG #1	3 9.11-est. 0		596		5		The Dump Bail	er Method				
CEMENTING TO PLUG AND ABANDON DATA:  PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #5 PLUG #6 P	5 13.70-est. 0		35		6.25		The Two-Plug I	Method				
Size of Hole or Pipe in which Plug Will Be Placed (inche 2.97 3												
Size of Hole or Pipe in which Plug Will Be Placed (inche 2.97 3							18.05.040.X					
Depth to Bottom of Tubing or Drill Pipe (ft NA 601 Stacks of Cement To Be Used (each plug) S7.8 22.8 Starty Volume To Be Pumped (cu. ft.) 74.16 29.26 Starty Volume To Be Pumped (cu. ft.) 74.16 29.26 Starty Volume To Be Pumped (cu. ft.) 601 5 Starty Volume To Be Pumped (cu. ft.) 601 5 Starty Volume To Be Pumped (cu. ft.) 601 5 Starty Volume To Be Pumped (cu. ft.) 601 5 Starty Volume To Pilug (if tagged ft.) 601 5 Starty Volume To Pilug (if tagged ft.) 601 5 Starty Volume To Pilug (if tagged ft.) 601 5 Starty Volume To Volume Material (Class III) Volume To Volume Material (Class III) Volume To Volume	CEMENTING TO	D PLUG AND ABANDON DA	NTA:	PLUG #	1 PLUG#	2 PLUG#	3 PLUG #4	PLUG #5	PLUG #6	PLUG #		
Stacks of Cement To Be Used (each plug)  Stacks of Cement To Be Pumped (cu. ft.)  Figury Volume To Be Pumped (cu. ft.)  Falculated Top of Plug (ft.)  Reasured Top of Plug (ft tagged ft.)  Reasured Top of Plug (ft.)  Reasured Top of Pl	Size of Hole or Pipe in wh	ich Plug Will Be Placed (i	inche:	Lowestern	1000							
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Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)				-	A STATE OF THE STA							
Reasured Top of Plug (if tagged ft.)  Blurry Wt. (Lb./Gal.)  Silurry Wt. (Lb./Gal.)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From  To  From  To  To  2142.5  601  601  5  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)				40000000	A SATOMASSES	1						
Sturry Wt. (Lb./Gal.)  Style Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From To  2142.5  601  5  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)				1/2/0/20	18878	-				-		
LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From To From To  2142.5 601  5		iggea n.)				+						
LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From To From To  2142.5   601		erial /Class III)	-	The Personal Property lies and		1				+		
From To From To  2142.5  601  55  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)			PERFORATED INT	Maria de la companya della companya della companya della companya de la companya della companya		S WHERE C	ASING WILL BI	VARIED (if a	any)			
Sestimated Cost to Plug Wells \$13,715  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)		THE OF EN FIGURE AND/ONE			NO INTERVIA		AGING MILL D	- 1711122 (11 1				
Setimated Cost to Plug Wells \$13,715  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)	2142.5	601										
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* Company of the Comp	attachments and tha information is true,	at, based on my inquiry of accurate, and complete.	f those individuals I am aware that th	s immedia	tely respons	ible for obta	ning the inform	nation, I beli	eve that the	à		
	Name and Official Title (P.	lease type or print)	Sign	nature					Date Signed	i -		

Dan Johnson, VP Environment and Technical Services

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HALEY CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA ALDRICH 149S COREHOLE DIAGRAM HDICURIS SCALE: NOT TO SCALE AUGUST 2012 FIGURE 1

								ON	/IB No. 2040-	0042 Ap	proval Expire	s 11/30/2014	
ŞΕ	PA		PI I		Wa	shington	ental Protecti , DC 20460 ANDON			ΔN			
Nama ar	d Address of F	nailitu	FEC	JOOII	NO AIN		Name and A			F. MENTS			
	ce Copper Pro								es (Arizona				
1575 V	V Hunt Hwy,	Florence Ariz	zona 85132						Hwy, Flore		ıa 85132		
200		anomice. Paracres			State	- 1		Co	unty		Permit	Number	
93/233	cate Well and C ction Plat - 640 /		1		Arizona			Pi	inal		AZ39	6000001	
-		N			Surface L	ocation [	Description	_					
	1 1 1	<u> </u>			NE 1/4 c	of SE 1/4	4 of <u>NE</u> 1/4	of _	SE 1/4 of	Section 28	Township	4S Range	9E
-	++- ++-	-    -    -	     		Surface Location	760 ft. fr	directions for $(N/S) \frac{N}{E}$ Lie	Lin	ne of quarter	section	section and	drilling unit	8
l w 🗕			E		_		AUTHORIZA	1OIT	N		1,71,017777777777	ACTIVITY	
- - -		-    -    -			✓ Area		23(63)			E		covery	
_	1 1 1					0.088				V CLA	SS III		
		s			Lease Nar	me NA				Well Num	162S		
	CA	SING AND TUI	BING RECORI	AFTER	PLUGGING	3			METH		ACEMENT O	F CEMENT P	LUGS
SIZE	WT (LB/FT)	TO BE PUT I	N WELL (FT)	то ве	LEFT IN W	ELL (FT)	HOLE SIZ	ZE	✓ The	Balance Me	. Alband		
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												y	
		TO PLUG AND		370.00		PLUG#		<b>‡</b> 2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	lole or Pipe in v			inche		2.97	3	_					
	Bottom of Tub					NA	300	-					
	Cement To Be olume To Be Pu					25.9 33.2	11.3	-					
-	ed Top of Plug		)			300	5			-	1		-
	d Top of Plug (i					300	5						
	t. (Lb./Gal.)					15.6	15.6						
Type Cer	ment or Other N	laterial (Class	III)			V	V						
	LIS	T ALL OPEN H	IOLE AND/OR	PERFOR	RATED INTE	RVALS A	ND INTERVA	LS	WHERE CAS	ING WILL BE	VARIED (if a	ny)	
	From			То					From			То	
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300			5										
Estimate	d Cost to Plug	Wells						-					
\$13,71	general management in the second in the second												
GII						Comblet -	otics						
att inf	ertify under the achments and formation is tru	that, based on e, accurate, ar	n my inquiry o	f those i	ly examined individuals vare that the	immedia	familiar with tely respons	ible	for obtaining	g the inform	ation, I belie	ve that the	)
po	ssibliity of fine	and imprison	ment. (Ref. 4	U CFR 1	44.32)								

Signature

Date Signed

09/07/2012

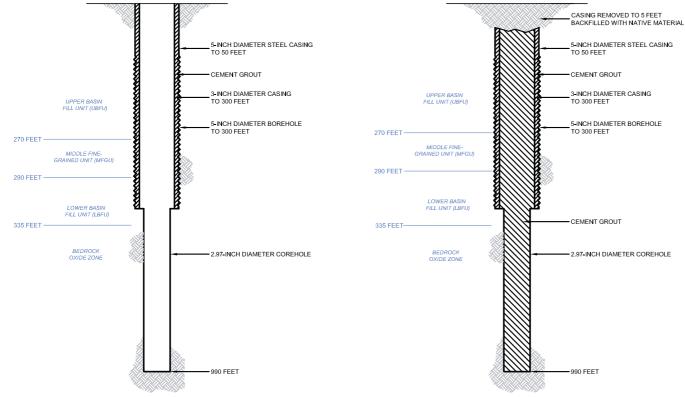
Name and Official Title (Please type or print)

Dan Johnson, VP Environment and Technical Services

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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# AS-BUILT 162S COREHOLE PROPOSED PLUGGING AND ABANDONMENT 162S COREHOLE



HALEY& ALDRICH

HALEY CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

162S COREHOLE DIAGRAM



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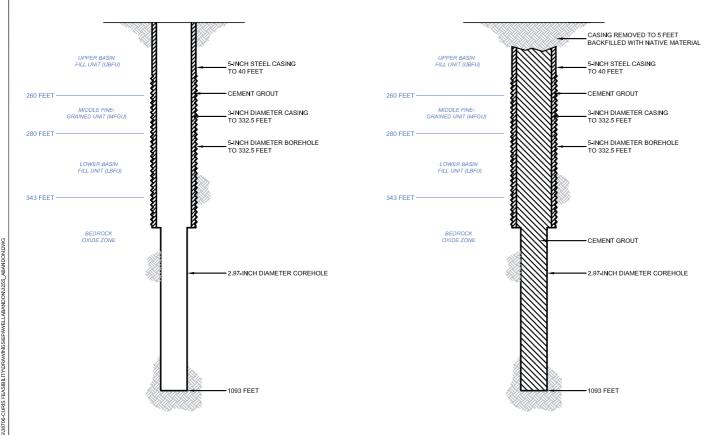
United States Environmental Protection Agency Washington, DC 20460

<b>EPA</b> PLUG	GING AN	D ABA		MENT PL	AN							
Name and Address of Facility		N	ame and Ac	Idress of Owne	r/Operator							
Florence Copper Project 1575 W Hunt Hwy, Florence Arizona 85132				urces (Arizona ınt Hwy, Flore		a 85132						
Locate Well and Outline Unit on Section Plat - 640 Acres	State Arizona			County Pinal		The state of the s	Number 6000001					
N	Surface I	urface Location Description										
	NE 1/4	of SE 1/4	of NE 1/4 c	of SE 1/4 of	Section 28	Township	4S Range	9E				
	Surface Location	770 ft. frm	(N/S) N	om nearest line Line of quarter e of quarter se	section	section and	drilling unit					
W E		TYPE OF A	UTHORIZAT	ION	_	WELL	ACTIVITY					
	( money)	vidual Pern	nit		CLAS							
	1	a Permit			L CLAS		N.					
-+- -+- -+- -+-	Rul	е			-	rine Dispos						
	Number	r of Wells $1$				nhanced Re ydrocarbon	, N. 1965 N. 1975					
					V CLAS		Storage					
s	Lease Na	MA NA			Well Numb							
CASING AND TUBING RECORD A	FTER PLUGGING	3		METH	OD OF EMPL		F CEMENT P	LUGS				
	O BE LEFT IN W		HOLE SIZ									
	27.5 est	LLL (11)	5	<b></b>	Balance Me							
	5	6.5-EST			The Dump Bailer Method  The Two-Plug Method							
0.0 10.70 101		0.0-1.01				etnoa						
					Other							
CEMENTING TO PLUG AND ABANDON DATA	۸:	PLUG #1	PLUG #2	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7				
Size of Hole or Pipe in which Plug Will Be Placed (inc		2.97 est	3									
Depth to Bottom of Tubing or Drill Pipe (ft		NA	332.5									
Sacks of Cement To Be Used (each plug)		28.5	12.5									
Slurry Volume To Be Pumped (cu. ft.)		36.6	16.1									
Calculated Top of Plug (ft.)		332.5	5									
Measured Top of Plug (if tagged ft.)		332.5	5									
Slurry Wt. (Lb./Gal.)		15.6	15.6									
Type Cement or Other Material (Class III)		V	V									
LIST ALL OPEN HOLE AND/OR PE		RVALS AN	D INTERVAL	S WHERE CAS	ING WILL BE	VARIED (if a						
From	То			From			То					
1093   332.5												
332.5												
Estimated Cost to Plug Wells												
\$13,715												
I certify under the penalty of law that I have per- attachments and that, based on my inquiry of the information is true, accurate, and complete. I a possiblity of fine and imprisonment. (Ref. 40 C	sonally examine nose individuals m aware that the	immediate	amiliar with ly responsi	ble for obtainir	ng the inform	ation, I belie	eve that the					
		enture.		)		r	Date Claus d					
Name and Official Title (Please type or print)  Dan Johnson, VP Environment and Technical Ser	Signature Date Signed					4						
		10	- 7			Da Coffe 09/07/2012						

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### PROPOSED PLUGGING AND ABANDONMENT AS-BUILT 325S COREHOLE 325S COREHOLE



ALDRICH

HALEY CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

325S COREHOLE DIAGRAM



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			DI I		Wa	shington	n, DC 2		S) 8	ANI			
			PLC	IGGIN	IG AN	D AB			ENT PL				
- Barrier Control of the Victorian	d Address of Fa								ess of Owne				
	ce Copper Pro V Hunt Hwy, I		ona 85132						ces (Arizona Hwy, Flore		na 85132		
Loc	ate Well and O	utline Unit on			State			100	ounty	-	[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	Number	
10000000	tion Plat - 640 A			ļ	Arizona				inal		AZ390	6000001	
_		N			SW 1/4 c				SE 1/4 of	Section 28	Township	4S Range	9E
		-    -    -	   		Locate we Surface Location	560 ft. f	direct rm (N/s (E/W)	ions from	n nearest line ne of quarter of quarter se	s of quarter	section and	CONTRACTOR OF THE PARTY OF THE	
w	<del> </del>		E		✓ Area	vidual Pe Permit	ermit	I			SS I	nI	
-	<del> </del>	- <b> </b> -+-			Number	of Wells		.1		☐ H	lydrocarbon	Storage	
		s			Lease Nar	NA NA				Well Numi			
	CA	SING AND TUE	BING RECORE	AFTER					METH	OD OF EMPL	The second second second second	F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT II	N WELL (FT)	TO BE	LEFT IN WI	ELL (FT)	но	LE SIZE	✓ The	Balance Me	thod		
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5	13.70-EST.	0		40				TOTAL CONTRACTOR AND THE PARTY OF THE PARTY			lethod		
									Oth				
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	CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG #		LUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	ole or Pipe in v			inche:		2.97 es							
	Bottom of Tub					NA	15/75	00					
	Cement To Be		ug)			40.1		1.3	-				-
	olume To Be Pu					51.38 300	5	4.48					
	Top of Plug (i					300	5						
	t. (Lb./Gal.)	ragged it.)				15.6		5.6					
	nent or Other M	laterial (Class	III)			V	T N						1
		T ALL OPEN H		PERFOR	ATED INTE				WHERE CAS	ING WILL BE	VARIED (if a	nv)	
	From	T ALL OF LINE	I AND/OR	To	ATEDIATE	T. CONTRACT		TEITTAGO	From			To	
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300			5										
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\$13,71	d Cost to Plug 5	Wells											
						Certific	catio	n					
atta	ertify under the achments and to ormation is true ssibliity of fine	that, based on e, accurate, ar	my inquiry o nd complete.	f those in I am awa	y examined ndividuals are that the	d and am immedia	n famili ately re	ar with th	e for obtainir	ng the inform	nation, I belie	ve that the	1

Signature

Date Signed

09/07/2012

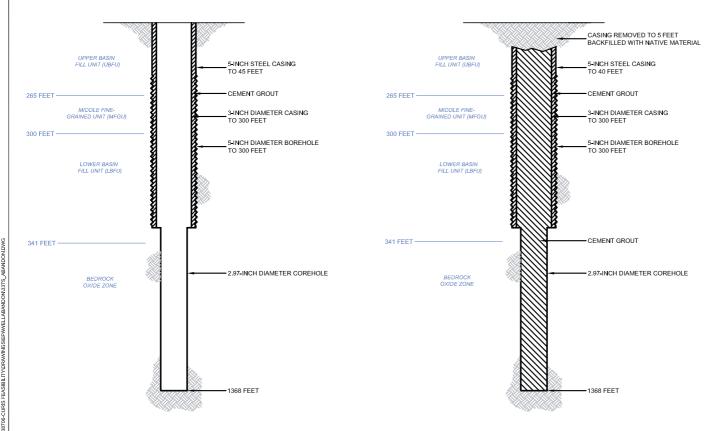
Name and Official Title (Please type or print)

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### PROPOSED PLUGGING AND ABANDONMENT AS-BUILT 337S COREHOLE 337S COREHOLE



ALDRICH

HALEY CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

337S COREHOLE DIAGRAM

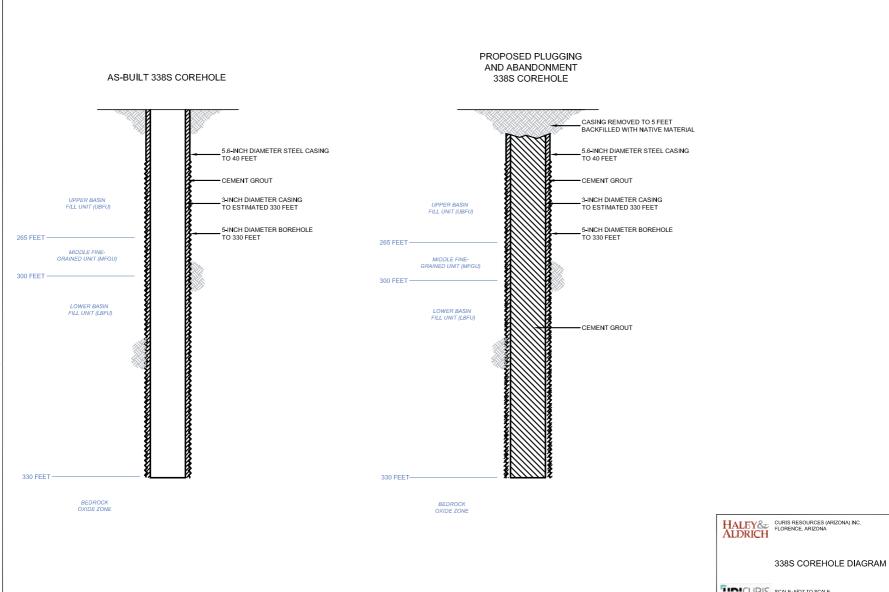


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₽E	FA		PLU	GGIN	G ANI	D ABA	NDON	IME	ENT PL	AN				
Name an	d Address of F	acility				I	Name and A	ddre	ess of Owne	r/Operator				
	ce Copper Pro V Hunt Hwy,		ona 85132						es (Arizona Hwy, Flore	n) Inc ence, Arizor	na 85132			
1475,000	cate Well and C		ı	- 3	State Arizona			Department.	unty nal		740000000000000000000000000000000000000	Number 6000001		
360	ation Flat - 040 /			5	Surface L	ocation D	escription	7.	465007.		The second second			
	1 1 1	N I		6	SW 1/4 o	NE 1/4	of NE 1/4	of	SE 1/4 of	Section 28	Township	4S Range	9E	
w		S S	E	\$ L	Surface Location and 335 ind 3	350 ft. frr ft. from (E TYPE OF vidual Per Permit	n (N/S) N /w) E Li AUTHORIZA	_ Lin	ne of quarter If quarter se	ction.	WELL / SS I SS II Brine Dispos Inhanced Re Hydrocarbon SS III	covery		
				-	ease Nan									
		SING AND TU							METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS	
SIZE	WT (LB/FT)	TO BE PUT II	N WELL (FT)		TO BE LEFT IN WELL (FT) HOLE SIZE					✓ The Balance Method				
3	9.11-EST.	0		325		-	5	-		Dump Baile				
5.6	13.70-EST.	0		35			6.5est	-	(man)	Two-Plug N	lethod			
		-						-	U Oth	ier				
	CEMENTING	TO PLUG AND	ADANDON D	TA		PLUG #1	PLUG #	<b>#2</b>	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of H	lole or Pipe in					3	FLOG	72	FE00 #3	7 200 #4	7200 #0	7200 #0	1 200 #/	
	Bottom of Tub			inche.		330	1							
	Cement To Be					12.4								
	olume To Be Pu					15.95								
Calculate	ed Top of Plug	(ft.)				5								
Measure	d Top of Plug (	if tagged ft.)				5								
Slurry W	t. (Lb./Gal.)					15.6								
Type Cer	nent or Other N	Material (Class	III)			V								
	LIS	T ALL OPEN H	IOLE AND/OR	PERFORA	TED INTE	RVALS AN	ID INTERVA	ALS V	WHERE CAS	ING WILL BE	VARIED (if a			
	From			То					From			То		
330			5											
-								-						
-			-					_			-			
Estimate	d Cost to Plug	Wells						_						
\$13,71		Wells												
att	ertify under the achments and ormation is tru	that, based on	my inquiry o	f those inc	examined dividuals	immediat	familiar witl ely respons	sible	for obtaining	ig the inform	nation, I belie	eve that the		
	ssibliity of fine					ire ale sig	misant pe	.raiti	os ioi subili	rung raise i	semination,			
Name an	d Official Title	(Please type o	or print)		Sign	ature			).			Date Signed		

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HDICURIS SCALE: NOT TO SCALE AUGUST 2012 FIGURE 1

				=				OMB No. 2040	-0042 Ap	proval Expire	s 11/30/2014			
<b>⊕</b> E	PA				w	ashington	ental Protectio	97.6 T. 9. 9. 557.0						
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Floren 1575 V	ce Copper Pro V Hunt Hwy, Ì	ject Florence Ari	izona 85132					rces (Arizon nt Hwy, Flor		na 85132				
	W-U I G				State		County Permit Number							
	cate Well and C ction Plat - 640 A		n		Arizona	ì		Pinal		AZ396000001				
12000		N			Surface Location Description									
	1 1 1	Ť			SW 1/4 of NW 1/4 of NE 1/4 of SW 1/4 of Section 28 Township 4S R						4S Range	9E		
	<u> </u>	_	느냐_		Locate well in two directions from nearest lines of quarter section and drilling unit									
	!!!		! !	Surface	288 (miles – 2)									
	<u> </u>		<u> </u>		Location 530 ft. frm (N/S) N Line of quarter section and 1090 ft. from (E/W) E Line of quarter section.									
-	<del>-</del>	$ \vdash$ $+$ $-$	누구니											
Van 느							AUTHORIZATI		WELL ACTIVITY					
w	1 1.		E		Indi	vidual Pe	rmit		CLA	SS I				
	+	-1-+-	누十니		✓ Area Permit				CLASS II					
_	<u> </u>		<u></u>		Rul	е				Brine Disposal				
	i i i	I i	i i l	Number of Wells			s 1			Enhanced Recovery				
	<del>                                     </del>		T-T-1		Number of Wells 2				Hydrocarbon Storage					
	<u> </u>		لنت		85959				✓ CLASS III					
		s			Lease Name NA				Well Number 356S					
	CA	SING AND TU	BING RECORE	AFTER	PLUGGIN	G		METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS		
SIZE	WT (LB/FT)	TO BE PUT	IN WELL (FT)	TO BE	LEFT IN W	ELL (FT)	The Balance Method							
5.6	13.7-EST.	0		40			6.5		The Dump Bailer Method					
								Th	e Two-Plug N	lethod				
		-				-		U Oti	ner					
	CEMENTING	TO PLUG AN	D ABANDON DA	ATA:		PLUG #	1 PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG#		
Size of Hole or Pipe in which Plug Will Be Placed (inche						2.97	5	][						
Depth to Bottom of Tubing or Drill Pipe (ft						NA	473							
Sacks of Cement To Be Used (each plug)						60.8	49.8							
Slurry Volume To Be Pumped (cu. ft.)						78	63.8							
Calculated Top of Plug (ft.)						473	5							
Measured Top of Plug (if tagged ft.)						473	5	1				-		
Slurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)						15.6	15.6					-		
ype Cei				DEDEGE	ATER INIT	V	IV WITERWAY	CIAIUEDE CAC	INC WILL DE	MARIER (IF.				
	From	I ALL OPEN	HOLE AND/OR	To	ATEDINI	ERVALS A	IND INTERVAL	From	ING WILL BE	VARIED (II a	To			
2094			473											
473			5											
stimate	d Cost to Plug	Wells												
\$13,71	5													
						Certific								

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

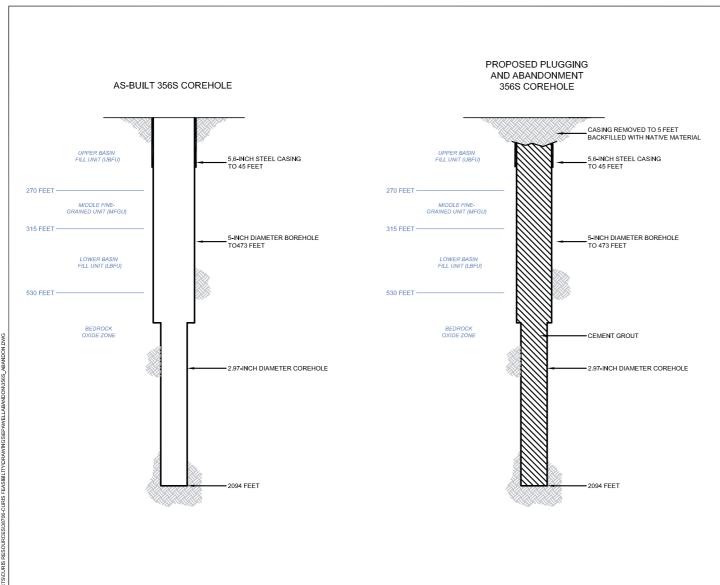
Name	and Offic	ial Title	(Please type of	or print)	
Dan	Johnson,	VP En	vironment and	l Technical	Services

Signature

Date Signed

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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HALEY& CURIS RESOURCES (ARIZONA) INC. ALDRICH

356S COREHOLE DIAGRAM



								O	MB No. 2040-	0042 Ap	proval Expire	s 11/30/2014			
₽E	ΡΔ			Unit	ed States E Wa	Environme ashingtor			Agency						
V/ L			PLU	JGGII	NG AN	D AB	AND	MNC	ENT PL	AN					
Name ar	nd Address of F	acility					Name a	nd Addr	ess of Owne	r/Operator					
	ce Copper Pro		05100						ces (Arizona						
1575 V	V Hunt Hwy, I	florence Ari	zona 85132				1575 \	N Hunt	Hwy, Flore	ence, Arizor	na 85132				
Lo	cate Well and C	utline Unit o	n		State			2000	ounty		Permit Number				
1,75,75	ction Plat - 640 A				. Brahambaya mitomore	Arizona					AZ396000001				
		N				Location							raw i		
	1 1 1		NW 1/4 of SW 1/4 of NE 1/4 of SW 1/4					Section 28	Township	4S Range	9E				
-	<del>-</del>	- $+$ $+$ $-$	<u> </u>		Locate well in two directions from nearest lines of quarter section and drilling unit										
	<del>-</del>	_  -	<u>                                     </u>		Surface										
	1 1 1		1 1		The second second	ition $\frac{730}{N}$ ft. frm (N/S) $N$ Line of quarter section									
	<b>+</b>				and 1220	ft. from (	THE RESERVE AND ADDRESS OF THE PARTY OF THE		ction.						
w	<del></del>	+i $-$	<del>i i</del> e				F AUTHO	RIZATIO	N			ACTIVITY			
	ユーレゴ.	_L	レユー		1	Individual Permit					L CLASS I				
	•				American Company	✓ Area Permit					CLASS II Brine Disposal				
_	+		$\vdash + \vdash \mid$		Number of Wells 1					Enhanced Recovery Hydrocarbon Storage					
_	<del>-</del>	- <b> </b>	느ᆛㅡ												
									✓ CLASS III						
		s			Lease Name NA				Well Number 357S						
	CA	SING AND TU	IBING RECORI	AFTER	PLUGGING	G			METHOD OF EMPLACEMENT OF CEMENT PLUGS						
SIZE	WT (LB/FT)	TO BE PUT	IN WELL (FT)	то ве	LEFT IN W	/ELL (FT)	HOLE SIZE  The Balance Method								
5.6						40			1 =	Dump Baile					
									The Two-Plug Method						
									Oth	ier					
						,						,			
			D ABANDON D			PLUG #		UG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
	lole or Pipe in v			inche:		2.97	5								
	Depth to Bottom of Tubing or Drill Pipe (ft NA						455								
						68.5 87.8	61.								
Marie Control of the						455	5	2							
	d Top of Plug (i					455	5								
7 71 77 1						15.6	15.	6							
Type Ce	ment or Other M	laterial (Class	s III)			V	V								
	LIS	T ALL OPEN	HOLE AND/OR	PERFOR	RATED INTE	ERVALS A	AND INTE	RVALS	WHERE CAS	ING WILL BE	VARIED (if a	ny)			
	From			То					From			То			
2280			455			)									
455			5												
Estimata	d Cost to Plug	Welle													
\$13,71	the Visit consistent was the sales and surplish again	wells													
				_			Segrego de contrare o				_				
						Certific	cation								
	ertify under the														
	tachments and formation is tru														
	ssibliity of fine														

Name and Official Title (Please type or print)

Dan Johnson, VP Environment and Technical Services

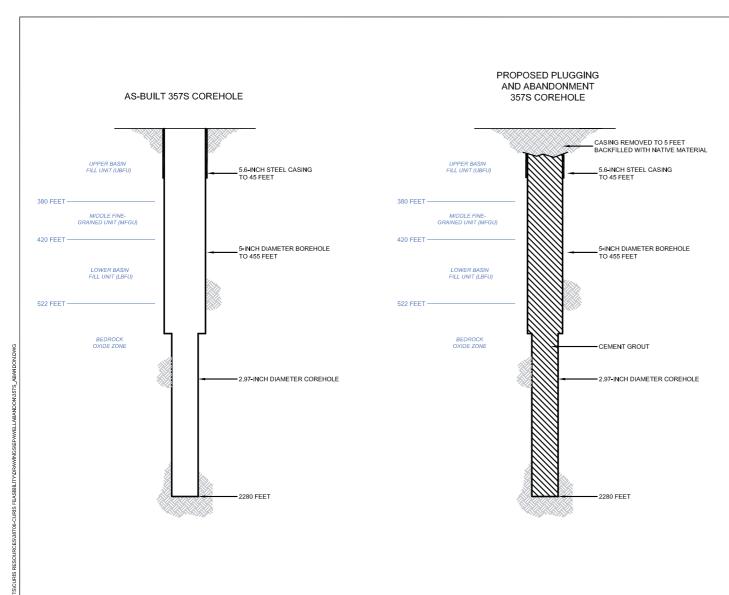
Signature

Date Signed

09/07/2012

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HALEY& CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

357S COREHOLE DIAGRAM



			Unite			ntal Protectio	n Agency				
<b>⇔EPA</b>		PLU	IGGIN			, DC 20460 ANDONI	MENT PL	.AN			
Name and Address of I	acility						dress of Owne	00.09220			
Florence Copper Pro	oject					Curis Resor	urces (Arizon	a) Inc			
1575 W Hunt Hwy,	Florence Ari:	zona 85132				1575 W Hu	nt Hwy, Flor	ence, Arizoi	na 85132		
		2		State			County		Permit	Number	
Locate Well and Section Plat - 640		n		Arizona	i		Pinal		AZ39	6000001	
	N			Surface L	ocation D	Description					
	Ť			NW 1/4	of SW 1/4	of <u>NE</u> 1/4 c	of <u>SW</u> 1/4 of	Section 28	Township	4S Range	9E
<u> </u>		<u> -</u>  -		Locate w	ell in two	directions fro	om nearest lin	es of quarter	section and	drilling unit	
				Surface							
				Location	950 ft. fr	m (N/S) N	Line of quarte	r section			
<b></b>	- $+$ $+$ $-$	느+-		and <u>1090</u>	ft. from (E	E/W) E Lin	e of quarter se	ction.			
w		H		_	TYPE OF	AUTHORIZAT	ION	_	WELL	ACTIVITY	
"Liii	Li	i i ["		Section 1	vidual Pe	rmit		CLA			
	- F T -	TT		✓ Area				CLA		34	
-++		H+-		Rule					Brine Dispos Inhanced Re		
L-I-I-I	_ <del>      -</del>	<u> -</u> - -		Number	of Wells	1			lydrocarbon	100	
								V CLA			
		· Tarananan · • Panan	NA				366S				
				Lease Na				1.00			
		BING RECORD					87 87	OD OF EMPL	ACEMENT O	FCEMENTP	LUGS
				EFT IN W	ELL (FT)	HOLE SIZI	⊑ ✓ Th	e Balance Me	ethod		
5.6 13.70-est	0		40			6.5		e Dump Bail			
					_	-	7.	e Two-Plug N	Method		
			1					her			
CEMENTIN	TO PLUG AN	D ABANDON DA	ATA:		PLUG #	1 PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG#
Size of Hole or Pipe in			and the second second		5						
Depth to Bottom of Tu	oing or Drill P	ipe (ft			425 est						
Sacks of Cement To Be	Used (each p	lug)			44.7						
Slurry Volume To Be P	umped (cu. ft.)	)			57.3						
Calculated Top of Plug					5						
Measured Top of Plug Slurry Wt. (Lb./Gal.)	if tagged ft.)				5	-					ļ
Type Cement or Other	Material /Class	1111)			15.6 V		-				-
		HOLE AND/OR	DEDEOD	ATED INTE		ND INTERVAL	S MHEDE CAS	ING WILL BE	VARIED (if a	uny)	
From	T ALL OF EN	TOLE AND/OR	To	ATED INTE	-RVALO A	NO INTERVAL	From	I I	· VAINED (II e	To	
425		5	3.30		11						
Estimated Cost to Plug	Wells										
\$13,715											

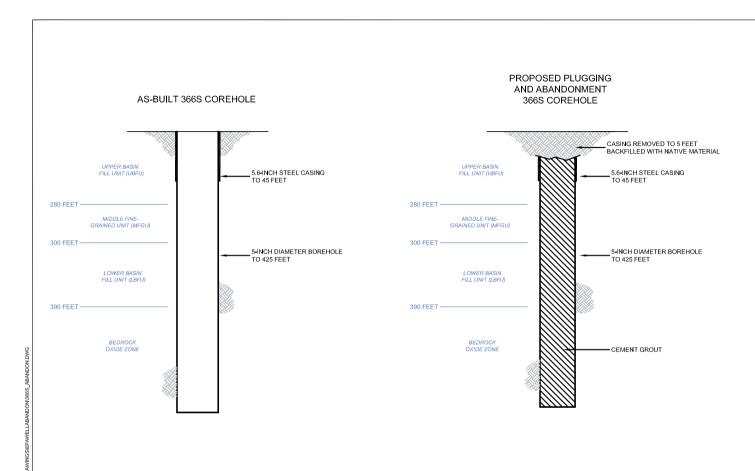
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possibility of fine and imprisonment. (Ref.	14 TA	incant penalties for submittin	g raise information, including th
Name and Official Title (Please type or print)	Signature		Date Signe

Dan Johnson, VP Environment and Technical Services

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HALEY& CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

366S COREHOLE DIAGRAM



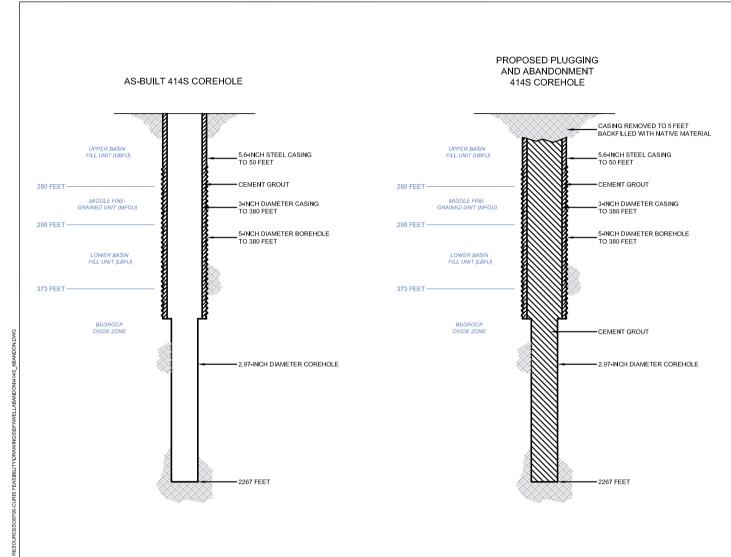
^=	-			United	d States E		ntal Prote		Agency					
<b>⊕</b> E	PA		PLU	IGGIN					ENT PL	AN				
Name an	d Address of F	acility							ess of Owne					
Floren	ce Copper Pro	ject							ces (Arizona		21200202			
1575 V	V Hunt Hwy,	Florence Ari	zona 85132				1575 W	Hunt	Hwy, Flore	ence, Arizoi	ia 85132			
Loc	cate Well and C	utline Unit o	n		State			2000	ounty		200000000000000000000000000000000000000	Number		
	tion Plat - 640		**	-	Talanda San San San San San San San San San Sa						AZ39	6000001		
5200		N		T.	Surface Location Description  NE 1/4 of SW 1/4 of NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E									
	1 1 1			- t	er v	(9X-97 (F	Total Control	-12-1-0	THE THE STREET	enase rome		Laterior Daniel Treeze		
	<u> </u>	-H+-	<u></u>		Locate we	ell in two	direction	from	nearest line	s of quarter	section and	drilling unit		
	- <del>-</del>		-i-1		Surface	740		T	9 5	12				
L	ユニレゴ.		<b>L</b>		100000000000000000000000000000000000000		Control of the last of the las		ne of quarter of quarter se					
	1 1 1			H	and 110		AUTHOR	THE PERSON NAMED IN		Ction.	WELL	ACTIVITY		
w			E		Indi	vidual Pe				CLA:				
$\vdash$	<del></del>		$\vdash + \vdash \vdash$		✓ Area	Permit				CLA	SS II			
_	<del>-</del>  -		<u> -</u> - -		Rule	9				☐ E	rine Dispos	al		
	i i i	I i	i i l		Number	of Wells	1				nhanced Re	100		
	T-1-1		TT-1		Number of Wells					1		Irocarbon Storage		
		s			NA				V CLA					
		3			Lease Nar	me INZ				Well Num	per 414S			
	CA	SING AND TU	BING RECORE	AFTER F	PLUGGING	3			METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS	
SIZE	WT (LB/FT)	TO BE PUT	IN WELL (FT)	TO BE L	EFT IN W	ELL (FT)	HOLE	SIZE	✓ The	Balance Me	thod			
3	13.70	0		375	375				The Dump Bailer Method					
5.6	13.70	0		45			6.5		The	Two-Plug M	lethod			
				-				-	U Oth	ner				
	CEMENTING	TO PLUG AN	D ABANDON DA	ATA.		PLUG #	1 PLU	3 #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #	
Size of F	lole or Pipe in					2.97	3		1 200 %0	1 200 117	1 200 110	1200 110		
	Bottom of Tub					NA	380							
Sacks of	Cement To Be	Used (each p	lug)			70.8	14.4							
	olume To Be Pu		)			90.78	18.4							
ASSESSMENT OF THE PARTY OF THE	ed Top of Plug					380	5							
	d Top of Plug (i t. (Lb./Gal.)	f tagged ft.)		~		380	15.6	-				-	-	
	nent or Other N	laterial (Class	s III)			15.6 V	V	-		1			-	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			HOLE AND/OR	PERFORA	ATED INTE	-		VALS	WHERE CAS	ING WILL BE	VARIED (if a	inv)		
	From	T ALL OT LIN	T T T T T T T T T T T T T T T T T T T	То					From			То		
2267			380											
380			5											
F = 41 = 4	10													
	d Cost to Plug	Wells												
\$13,71	3													
				_				_						
						Certific	ROS - 100 (100 (100 (100 (100 (100 (100 (10							

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possisting of this and imprisonment. (Non-40 of N-74)	NO.	
Name and Official Title (Please type or print)	Signature	Date Signed
Dan Johnson, VP Environment and Technical Services		201-21

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HALEY& CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

414S COREHOLE DIAGRAM

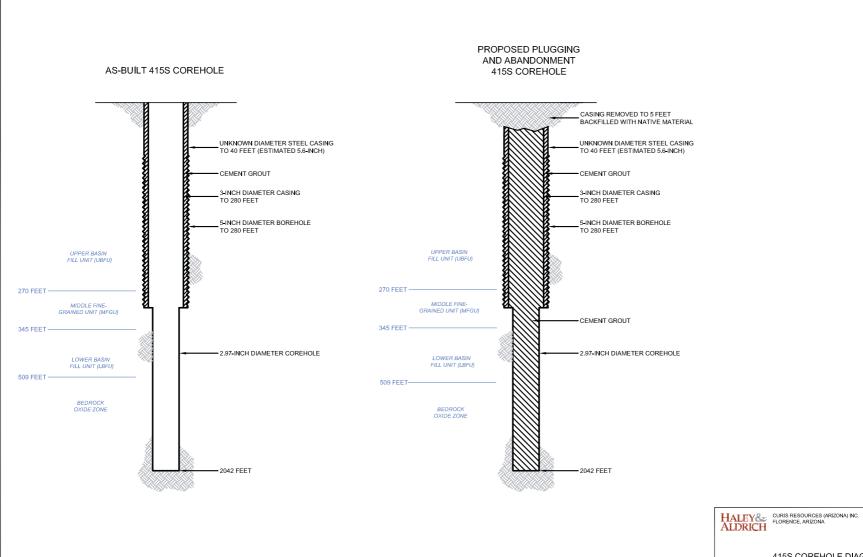


FIGURE 1

<b>⊕</b> E	PA		PLU		W	ashington,		on Agency MENT PL	.AN			
Floren	nd Address of F ce Copper Pro V Hunt Hwy,	ject	ona 85132				Curis Reso	ddress of Owne urces (Arizon ınt Hwy, Flor	a) Inc	na 85132		
75.70	cate Well and C		III		properties and the property of			County Pinal	9717779 977.70			
	1 1 1	N I		- L	Surface Location Description SE 1/4 of NW 1/4 of NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E							
w -	+		   		Surface Location and 830	520 ft. frn ft. from (E	n (N/S) <u>N</u> /W) <u>E</u> Lir AUTHORIZAT	om nearest lin Line of quarte ne of quarter se	r section	WELL	drilling unit	
					Rul	a Permit e r of Wells	<u>1</u> _		E	Brine Dispos Inhanced Re Iydrocarbon	covery	
		s			Lease Na	NA NA			Well Num	ber 415S		
	CA	SING AND TU	BING RECORE	AFTER F	LUGGIN	G		METH			F CEMENT P	LUGS
\$1ZE 3 5.6-est	3 9.11-EST. 0 275				BE LEFT IN WELL (FT) HOLE    5     6.5			Th	✓ The Balance Method ☐ The Dump Bailer Method ☐ The Two-Plug Method ☐ Other			
	CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG #1	PLUG #	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of I	lole or Pipe in	which Plug Wi	II Be Placed (	inche		2.97	3					
Depth to	Bottom of Tub	ing or Drill Pi	pe (ft			NA	280					
	Cement To Be		ug)			66.1	10.5					
	olume To Be Pu					84.7	13.5					
	ed Top of Plug d Top of Plug (					280	5	4	-			-
	t. (Lb./Gal.)	ir tagged it.)				15.6	15.6	-				-
	ment or Other N	Material (Class	III)			V	V					
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			_	DEDEODA	TED INT	Mark Comment of the C	material light and the last	LS WHERE CAS	ING WILL BE	VARIED (if a	any)	
	From	T ALL OF LIVE	I	To	1120 1111	INVALUATION AND	D INTERVA	From	I I	. TAINLE (III	To	
2042			280			11						
280			5			10						
						3						
		- Carlotte										
\$13,71	ed Cost to Plug 5	Wells										
at: in:	ertify under the tachments and formation is tru ossibliity of fine	that, based or ie, accurate, ai	my inquiry o	of those in I am awa	examine dividuals re that th	s immediate	amiliar with	ible for obtaini	ng the inforn	nation, I beli	eve that the	,
Name an	d Official Title	(Please type o	or print)		Sign	nature	-				Date Signed	R .
Dan Jo	hnson, VP En	vironment an	d Technical S	Services		9	(	10			Foles	Linch

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415S COREHOLE DIAGRAM

HOICURIS SCALE: NOT TO SCALE AUGUST 2012

FIGURE 1

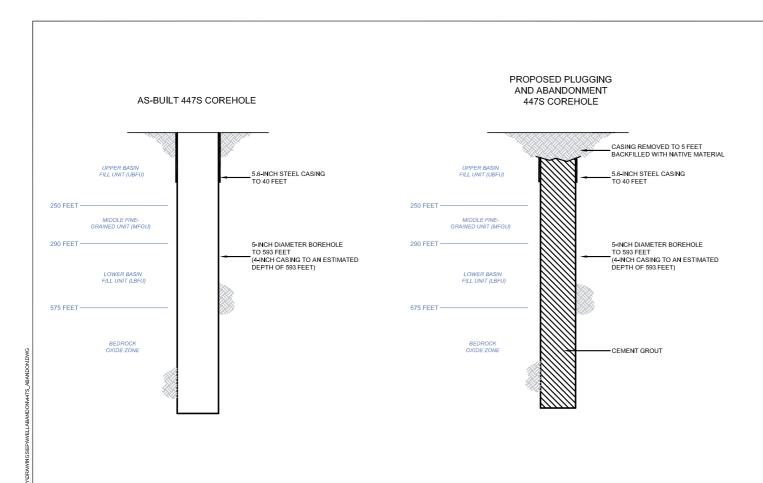
	gran 2	All comm
-		
-		
90	B 1	// W

United States Environmental Protection Agency Washington, DC 20460

r.	.UGGING AN	D ABA	NDON	MENT PL	AN				
Name and Address of Facility		Na	ame and A	dress of Owne	r/Operator				
Florence Copper Project 1575 W Hunt Hwy, Florence Arizona 85132				urces (Arizona unt Hwy, Flore		a 85132			
Locate Well and Outline Unit on Section Plat - 640 Acres	State Arizona			County Pinal		general endoctrial	Number 6000001		
N	propertieshing	ocation De							
	SE 1/4	SE   1/4 of   NE   1/4 of   NW   1/4 of   SW   1/4 of   Section   28   Township   4S   Range   9E							
	Surface Location	540 ft. frm	(N/S) N	om nearest line Line of quarter	section	section and	drilling unit		
w	E	TYPE OF A	UTHORIZA	TION		WELL	ACTIVITY		
"   d   d   d   d	_ Indi	vidual Perm	nit		CLAS				
		a Permit			CLAS				
╷ <del>┣╡╼┢╡</del> ╼┣ <del>╡</del> ╼┝┽╼┃	Rul	е				ine Dispos			
	Numbe	r of Wells 1			10000	nhanced Re	(3)		
	AARAAMAD ENA				The second secon	/drocarbon	Storage		
s		NA			✓ CLAS				
•	Lease Na	me INA			Well Numb	er 447S			
CASING AND TUBING RECO	RD AFTER PLUGGING	3			OD OF EMPLA	ACEMENT O	F CEMENT P	LUGS	
SIZE WT (LB/FT) TO BE PUT IN WELL (FT			HOLE SIZ	E / The	e Balance Met	hod			
4-est 10.79-EST 0	588-EST		5	The	e Dump Baile	r Method			
5.6   13.70-EST   0	35		6.5	The	e Two-Plug Me	ethod			
					ner				
OF MENTAL TO BUILD AND ADAMPON	DATA	PLUG #1	PLUG #	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
CEMENTING TO PLUG AND ABANDON Size of Hole or Pipe in which Plug Will Be Place		4	PLUG #	2 FLUG #3	PLUG #4	FLUG #3	PLUG #6	PLUG W	
Depth to Bottom of Tubing or Drill Pipe (ft	a (mone	593-EST							
Sacks of Cement To Be Used (each plug)		40							
Slurry Volume To Be Pumped (cu. ft.)		51.3							
Calculated Top of Plug (ft.)		5							
Measured Top of Plug (if tagged ft.)		5							
Slurry Wt. (Lb./Gal.)		15.6							
Type Cement or Other Material (Class III)		V							
LIST ALL OPEN HOLE AND/O		ERVALS AND	INTERVA		ING WILL BE	VARIED (if a			
From	То			From			То		
593									
Estimated Cost to Plug Wells									
\$13,715									
I certify under the penalty of law that I hav attachments and that, based on my inquir information is true, accurate, and complet	e personally examine y of those individuals e. I am aware that th	immediate	miliar with ly respons	ible for obtaini	ng the informa	ation, I beli	eve that the	1	
possibliity of fine and imprisonment. (Ref									
Name and Official Title (Please type or print)	Sign	nature					<b>Date Signed</b>		

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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447S COREHOLE DIAGRAM



<b>⊕</b> E	PA		PLU		Wa	shington,	ntal Protection DC 20460	MENT P	AN				
Name aı	nd Address of F	acility	1	COIN	O AII			Idress of Own					
	ce Copper Pro							urces (Arizo	and the same of th				
1575 V	W Hunt Hwy,	Florence A	rizona 85132						rence, Arizoi	na 85132			
1					State			County		Permit	Number		
	cate Well and C		on		Arizona			Pinal		A DISCOUNT COMPANY	6000001		
36	ction Flat • 640 /		-	1	Surface Location Description								
_		N			SE 1/4 of NE 1/4 of NW 1/4 of SW 1/4 of Section 28 Township 4S Range 9E								
	<u> </u>	_	_ <u>i_i_</u>						nes of quarter	VI			
	1 ! !				Surface								
	4-1-4			12		530 ft. fr	m (N/S) N	Line of quart	er section				
-	<del></del>						And in contrast of the last	e of quarter s					
			<u> </u>			TYPE OF	AUTHORIZAT	ION		WELL /	ACTIVITY		
w			E		Indi	vidual Per	mit		CLA	SS I			
	+				✓ Area	Permit			CLA	SS II			
	<del></del>	_	-iil		Rule	е			E	rine Dispos	al		
	i i i	I i	i i l		Number	of Wells	1		Amount of	nhanced Re	575		
	7-1-7								Storage				
_	<u>i i i</u>					NT A			✓ CLA				
		s			Lease Na	me NA			Well Num	ber 448S			
	CA	SING AND T	UBING RECORD	AFTER F	LUGGING	3		MET	HOD OF EMPL	ACEMENT O	F CEMENT P	LUGS	
SIZE	WT (LB/FT)	TO BE PU	T IN WELL (FT)	TO BE L	EFT IN W	ELL (FT)	HOLE SIZ	E V T	he Balance Me	thod			
3	9.11-EST.	0	7 87	745	745 5				he Dump Baile				
5.6est	13.70-EST.	0		35			6.75		he Two-Plug N				
								0	ther				
	CEMENTING	TO PLUG A	ND ABANDON DA	ATA:		PLUG #	1 PLUG #	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #	
Size of I	dole or Pipe in	which Plug	Will Be Placed (	inche		3							
	Bottom of Tuk					750							
	f Cement To Be					28.5		4				-	
	olume To Be Pu		t.)			36.57				-			
	ed Top of Plug					5	-	-	-	-		-	
	d Top of Plug ( /t. (Lb./Gal.)	ir tagged it.)				15.6	1	+				<u> </u>	
	ment or Other N	Material (Clas	ss III)			V	1						
. , , , , , ,		•	HOLE AND/OR	PERFORA	TED INTE		ND INTERVAL	S WHERE CA	SING WILL BE	VARIED (if a	nv)		
	From	T ALL OF E	HOLE ANDION	To	VIED IIVIE	INVALO A	NO INTERVA	From	T T	· VAIGED (II o	To		
750			5									_	
100			11										
				w 11 = 1 = 1									
STATE OF STREET	ed Cost to Plug	Wells											
\$13,7	15												

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name	and Official	Title	(Please type or print)
Dan	Johnson, V	P En	vironment and Technical Services

Signature

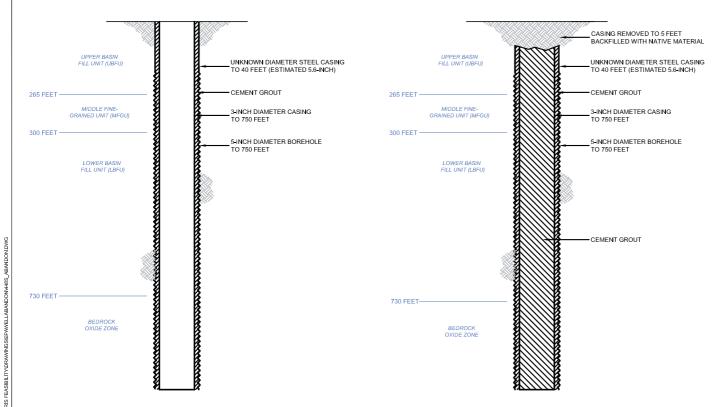
Date Signed

09/07/2012

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# AS-BUILT 448S COREHOLE



PROPOSED PLUGGING AND ABANDONMENT

448S COREHOLE

ALDRICH

HALEY CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

448S COREHOLE DIAGRAM



FIGURE 1

Name and Address of Facility Florence Copper Project 1575 W Hunt Hwy, Florence Arizona 85132  Locate Well and Outline Unit on Section Plat - 640 Acres  N  N  Locate Surface Locatic and 93t  R									
Name and Address of Facility  Florence Copper Project 1575 W Hunt Hwy, Florence Arizona 85132  Locate Well and Outline Unit on Section Plat - 640 Acres  N N NW 1/1 Locate Surface Locatic and 938  W  CASING AND TUBING RECORD AFTER PLUGGI  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN 3 9.11-EST. 0 865			IENT PL	AN					
Locate Well and Outline Unit on Section Plat - 640 Acres  N  W  Locate Well and Outline Unit on Section Plat - 640 Acres  N  Locate Surface Locatic and 931  W  CASING AND TUBING RECORD AFTER PLUGGI  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN 3 9.11-EST. 0 865		Name and Add		30000					
Locate Well and Outline Unit on Section Plat - 640 Acres  N  N  Locate  Surface  N  Locate  Surface  Locatic  and 93i  In  A  R  Numb  S  CASING AND TUBING RECORD AFTER PLUGGI  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN  3 9.11-EST. 0 865		Curis Resou 1575 W Hur							
Locate Well and Outline Unit on Section Plat - 640 Acres  N  N  Locate  Surface  NW 1/1  Locate  Surface  Locatic  and 938  In I			County			Number			
Surface NW 1/1 Locate Surface Locatic and 938  In I	na		Pinal		The second state of the second	6000001			
W 1/2 Locate Surface Locatic and 930  In I	Surface Location Description								
W Lease I  CASING AND TUBING RECORD AFTER PLUGGI  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN  3 9.11-EST. 0 865	4 of SE 1/4	1 of NW 1/4 of	SW 1/4 of	Section 28	Township	4S Range	9E		
Surface Locatic and 93  In I	NW 1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 28 Township 4S Range 9E Locate well in two directions from nearest lines of quarter section and drilling unit								
Locatic and 938  In part of the put in well (FT) To be left in 3 9.11-EST. 0 865		directions iro	ii nearest iine	s or quarter	section and	drilling dilit			
A and 931  W  A and 931  In I	April Control of the	m (N/S) N L		Carriera w Carriera					
CASING AND TUBING RECORD AFTER PLUGGI  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN  3 9.11-EST. 0 865		m (N/S) N L E/W) W Line							
CASING AND TUBING RECORD AFTER PLUGGI  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN  3 9.11-EST. 0 865		AUTHORIZATION		T T	MELL	ACTIVITY			
CASING AND TUBING RECORD AFTER PLUGGI  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN  3 9.11-EST. 0 865	dividual Pe		214	CLAS		CHVIII			
CASING AND TUBING RECORD AFTER PLUGGI  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN  3 9.11-EST. 0 865	rea Permit			CLAS					
CASING AND TUBING RECORD AFTER PLUGGI  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN  3 9.11-EST. 0 865	ule			П =	rine Dispos	al			
CASING AND TUBING RECORD AFTER PLUGGI  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN  3 9.11-EST. 0 865		1			nhanced Re				
Lease	per of Wells	1			Hydrocarbon Storage				
Lease				V CLA	.ASS III				
CASING AND TUBING RECORD AFTER PLUGGI SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN 3 9.11-EST. 0 865	NA NA			Well Numl	453S				
SIZE         WT (LB/FT)         TO BE PUT IN WELL (FT)         TO BE LEFT IN           3         [9.11-EST.]         [0]         [865]	250000		I METH	and the same of th		F CEMENT PI	luce		
3 9.11-EST. 0 865	19.9.	I	- MEIH	OD OF EMPL	ACEMENTO	r CEMENT PL	_065		
	WELL (FT)	HOLE SIZE		Balance Me					
5.0est 15.70-E.51 0 55		5		Dump Baile					
		6.75		Two-Plug N	lethod				
			U Oth	ier					
CEMENTING TO PLUG AND ABANDON DATA:	PLUG #	1 PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #		
Size of Hole or Pipe in which Plug Will Be Placed (inche:	3								
Depth to Bottom of Tubing or Drill Pipe (ft	870								
Sacks of Cement To Be Used (each plug)	33.1								
Slurry Volume To Be Pumped (cu. ft.)	42.46								
Calculated Top of Plug (ft.)	5								
Measured Top of Plug (if tagged ft.)	5								
Slurry Wt. (Lb./Gal.)	15.6	4							
Type Cement or Other Material (Class III)	V								
LIST ALL OPEN HOLE AND/OR PERFORATED IN	TERVALS A	ND INTERVALS		ING WILL BE	VARIED (if a	ny) To			
From To			From			10			
870 5									
Estimated Cost to Plug Wells				L.					
\$13,715									
	Certific								

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name and Official Title	(Please type or print)	
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Dan Johnson, VP Environment and Technical Services

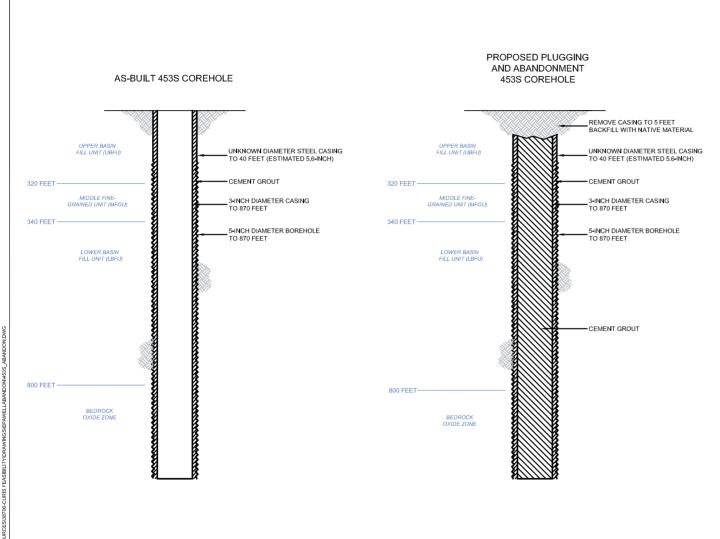
Signature

Date Signed

5) (//

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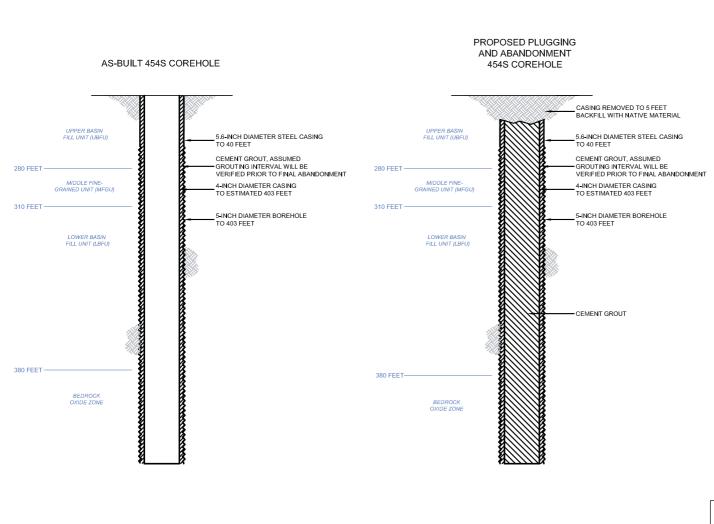
453S COREHOLE DIAGRAM



θE	PA		PLU	United States W IGGING AN	/ashington	DC 20460		.AN			
Floren	d Address of F ce Copper Pro V Hunt Hwy,	ject	ona 85132			Curis Reso	dress of Owne urces (Arizon nt Hwy, Flor	a) Inc	ıa 85132		
	cate Well and C		-	State Arizon				ounty Per Pinal A			
		N		Annual Section 1	Location D		American Mills				
	$\overline{\mathbf{I}}$	Ť!		NE 1/4	of <u>SE</u> 1/4	of <u>NW</u> 1/4 o	of <u>SW</u> 1/4 of	Section 28	Township	4S Range	9E
	+			Surface Location and 128	950 ft. fr 0 ft. from (E	m (N/S) N E/W) W Lin	om nearest lin Line of quarte e of quarter se ION	r section	WELL A	drilling unit	
	•			Ru				party	Brine Dispos	al	
	7-67		-7-1	Nivers	er of Wells	1		☐ E	nhanced Re	covery	
	ナートナ	-		Numb	er of wells	-			lydrocarbon	Storage	
-	1 1 1	نـنــــــــــــــــــــــــــــــــــــ						✓ CLA			
		s		Lease N	ame NA			Well Num	ber 454S		
	CA	SING AND TUE	BING RECORD	AFTER PLUGGIN	IG		METH	IOD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE	WT (LB/FT)	TO BE PUT II	N WELL (FT)	TO BE LEFT IN	WELL (FT)	HOLE SIZ	₽ I I I I I I I I I I I I I I I I I I I	e Balance Me	thod		
4	10.79-EST.	0		398 - ESTIMA	TED	5	_ =	e Dump Baile			
5.6	13.70-EST	0		35		6.5		e Two-Plug N			
							Ot	her			
					-			-			7
		TO PLUG AND		- Contraction	PLUG #	1 PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	lole or Pipe in			inche	4	4			-		
	Bottom of Tub Cement To Be				403 est		-				
	olume To Be Pu		ug)		34.7	-					
	ed Top of Plug				5	1	1				
	d Top of Plug (				5						
Slurry W	t. (Lb./Gal.)				15.6						
Type Cer	nent or Other N	Material (Class	III)		V						
	LIS	ST ALL OPEN H	OLE AND/OR	PERFORATED INT	TERVALS A	ND INTERVAL	S WHERE CAS	ING WILL BE	VARIED (if a	iny)	
	From			То			From			То	
403			5								
-											
1								1	-		
Estimate \$13,71	d Cost to Plug 5	Wells									
att inf	achments and	that, based on ie, accurate, ar	my inquiry o	personally examin f those individua I am aware that t 0 CFR 144.32)	ls immediat	familiar with ely responsi	ble for obtaini	ng the inforn	nation, I beli	eve that the	,
										Date Claus	
ne amela	a Official Title	(Please type of	or print)	Sig	nature		1.			Date Signed	

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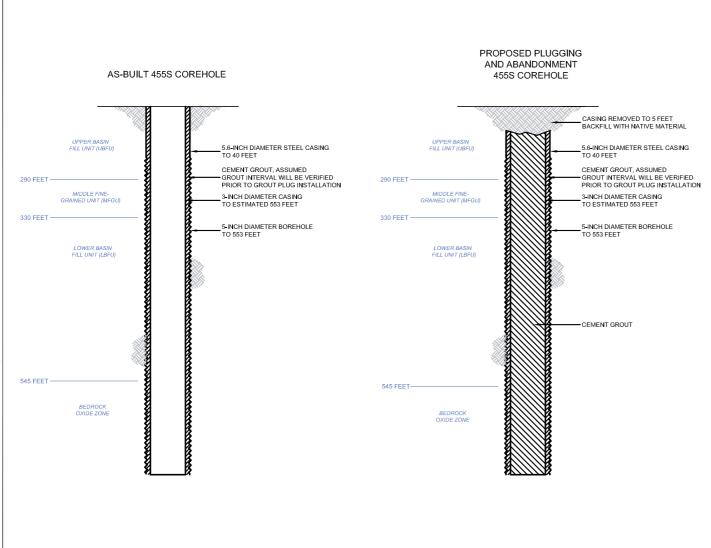




<b>≎EPA</b> PL	United States I W. UGGING AN	ashington,	DC 20460		AN				
Name and Address of Facility Florence Copper Project 1575 W Hunt Hwy, Florence Arizona 85132			Curis Resou	dress of Owne rces (Arizona nt Hwy, Flore	a) Inc	na 85132			
Locate Well and Outline Unit on Section Plat - 640 Acres	State Arizona	a		County Pinal		- Section of the sect	Number 6000001		
N	property of the first of the	Location De			411 210 <b>1000</b>		Street He		
w — — — — — — — — — — — — — — — — — — —	Locate w Surface Location and 1060  Ind	960 ft. frm  ft. from (E/  TYPE OF / ividual Permananananananananananananananananananan	ilirections fron (N/S) N is (N/S) N is (N/W)	m nearest line Line of quarter of quarter se	s of quarter ction.  CLAS	WELL A SS I SS II Srine Disposa Inhanced Re	drilling unit  ACTIVITY  al  covery		
s	Lease Na	Ime NA			Well Num	ber 455S			
CASING AND TUBING RECOR		-		METH	OD OF EMPL	History and the same of	F CEMENT P	LUGS	
SIZE   WT (LB/FT)   TO BE PUT IN WELL (FT)   3   9.11-EST   0	TO BE LEFT IN W 548 est 35	VELL (FT)	HOLE SIZE			aller Method			
				Ott	ner				
		T		-	T	T			
CEMENTING TO PLUG AND ABANDON I	- Indiana de la companya de la comp	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of Hole or Pipe in which Plug Will Be Placed Depth to Bottom of Tubing or Drill Pipe (ft	(inche:	553 est	-	1					
Sacks of Cement To Be Used (each plug)		21		1					
Slurry Volume To Be Pumped (cu. ft.)		26.9							
Calculated Top of Plug (ft.)		5							
Measured Top of Plug (if tagged ft.)		5							
Slurry Wt. (Lb./Gal.)		15.6							
Type Cement or Other Material (Class III)		V							
LIST ALL OPEN HOLE AND/O	Market State of the Control of the C	ERVALS AN	ID INTERVAL		ING WILL BE	VARIED (if a			
From	То			From			То		
553 est   5									
Estimated Cost to Plug Wells \$13,715									
I certify under the penalty of law that I have attachments and that, based on my inquiry information is true, accurate, and complete possibliity of fine and imprisonment. (Ref.	personally examine of those individuals I am aware that the 40 CFR 144.32)	s immediate nere are sig	amiliar with t	ole for obtaini	ng the inform	nation, I beli	eve that the including the		
Name and Official Title (Please type or print)		nature	\ /	11			Date Signed		
Dan Johnson, VP Environment and Technical	Services	2	) (	1			09/07	1/2012	

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HALEY CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

455S COREHOLE DIAGRAM

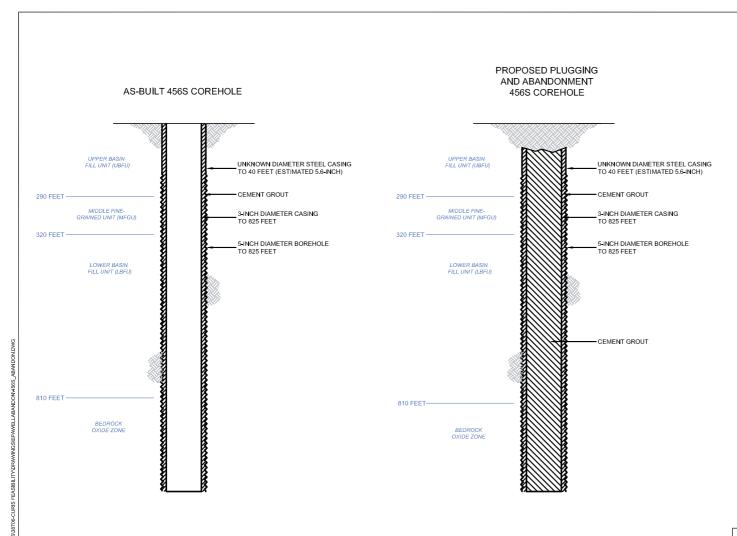
HDICURIS SCALE: NOT TO SCALE AUGUST 2012

FIGURE 1

₽E	PA		PLU		Wa	shington,			<sup>Agency</sup> ENT PL	AN				
Floren	d Address of F ce Copper Pro V Hunt Hwy,		1000 524005 500				Name and A	Addr	ess of Owne	r/Operator	na 85132			
Loc	ate Well and C	Outline Unit on			State Arizona				ounty inal		g=0.07500N4003	Number 6000001		
Sec	tion Plat - 640	Acres	-	- (			escription	1	шаг		AZJ	0000001		
		N		View View	Surface Location Description  NW 1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 28 Township						4S B	QF.		
w			E	L S L	ocate w Surface ocation and 810 Indi V Area	960 ft. frr ft. from (E TYPE OF vidual Per	n (N/S) N (M/S) W L (M) W L AUTHORIZA	from Line c	nearest line	section ction.	WELL A SS I SS II Brine Dispos Inhanced Re	ACTIVITY al		
		s		100	500	NA				Well Num				
					ease Na						100 100 100 100 100 100 100 100			
		ASING AND TUE							METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS	
SIZE	WT (LB/FT)	TO BE PUT II	WELL (FT)	TO BE LE	EFT IN W	ELL (FT)	HOLE S	IZE		Balance Me				
3 5 Cast	9.11-EST.	0		820		10.00				Dump Baile				
5.6est	13.70-EST.	U		35			6.73	-		Two-Plug M	lethod			
				1			1-11-11-11-11-11-11-11-11-11-11-11-11-1	-	☐ Oti	ner				
	CEMENTING	TO PLUG AND	ABANDON DA	TA:		PLUG #1	PLUG	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of H	1-	which Plug Wi				3	1.255			1	1	1	1	
		oing or Drill Pip				825								
Sacks of	Cement To Be	Used (each plu	ıg)			31.4								
Slurry Vo	olume To Be Pu	umped (cu. ft.)				40.3								
	ed Top of Plug					5								
	d Top of Plug (	if tagged ft.)				5								
	t. (Lb./Gal.)					15.6		-						
Type Cer		Material (Class				V								
		ST ALL OPEN H	OLE AND/OR		TED INTE	ERVALS AN	ID INTERV			ING WILL BE	VARIED (if a	To		
025	From		15	То				_	From			10		
825			10			- 1		-						
					_	- 11								
1														
Estimate \$13,71	d Cost to Plug 5	Wells												
att inf po	achments and ormation is tru ssibliity of fine	e penalty of lav that, based on ue, accurate, ar a and imprison	my inquiry ond complete. ment. (Ref. 4	f those inc I am awar	examine dividuals e that th .32)	immediat	familiar wit ely respon	sible	for obtaining	ng the inform	ation, I beli	eve that the		
Association and prices		vironment and	A Committee of the Comm	Services	<	1			/			09/07	12012	

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456S COREHOLE DIAGRAM



			O	MB No. 2040-	0042 Ap	proval Expire	s 11/30/2014			
<b>≎EPA</b>		shington	DC 20460		ANI					
PLU	GGING AN			2-2075 N. DO 16-1						
Name and Address of Facility Florence Copper Project 1575 W Hunt Hwy, Florence Arizona 85132			Name and Addr Curis Resoure 1575 W Hunt	ces (Arizon:	n) Inc	ıa 85132				
process and the contract was allowed 1990	State		C	ounty		Permit	Number			
Locate Well and Outline Unit on Section Plat - 640 Acres	Arizona		P	inal		AZ39	6000001			
N	Committee Advanced		Description			-	CATURA I			
	SE 1/4 of SE 1/4 of NW 1/4 of SW 1/4 of Section 28 Township 4S Range 9E									
	Surface Location	1170 ft. fr	directions from m (N/S) $N$ Line $N$	ne of quarter	section	section and	drilling unit			
WE	✓ Area	TYPE OF AUTHORIZATION  Individual Permit  Area Permit  Rule  Number of Wells 1						very		
s	Lease Nar	me NA			Well Num	ber 459S				
CASING AND TUBING RECORD	AFTER PLUGGING	3		METH			F CEMENT PI	LUGS		
SIZE WT (LB/FT) TO BE PUT IN WELL (FT)	TO BE LEFT IN W	ELL (FT)	HOLE SIZE	. ✓ The	Balance Me	ethod				
5.6est 13.70-EST 0	35		6.5	☐ The	Dump Baile Two-Plug N	er Method				
CEMENTING TO PLUG AND ABANDON DAT	A:	PLUG #	1 PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
Size of Hole or Pipe in which Plug Will Be Placed (in	iche:	5								
Depth to Bottom of Tubing or Drill Pipe (ft		NA				1				
Sacks of Cement To Be Used (each plug)		50.8								
Slurry Volume To Be Pumped (cu. ft.)  Calculated Top of Plug (ft.)		65.2								
Measured Top of Plug (if tagged ft.)		5				1				
Slurry Wt. (Lb./Gal.)		15.6								
Type Cement or Other Material (Class III)		V								
LIST ALL OPEN HOLE AND/OR P	ERFORATED INTE	RVALS A	ND INTERVALS	WHERE CAS	ING WILL BE	VARIED (if a	iny)			
From	То			From			То			
483										
Estimated Cost to Plug Wells \$13,715					, ,					
I certify under the penalty of law that I have pe attachments and that, based on my inquiry of information is true, accurate, and complete. I	rsonally examine those individuals	immedia	familiar with th	e for obtaining	ng the inform	nation, I belie	eve that the			

Name and Official Title (Please type or print)

Dan Johnson, VP Environment and Technical Services

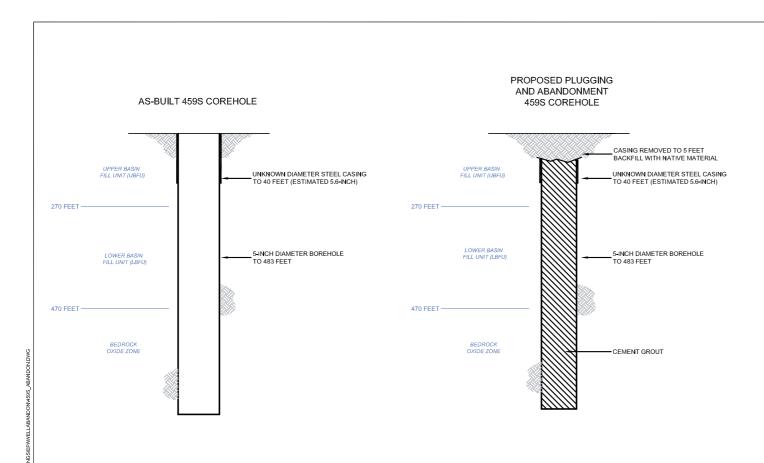
Signature

Date Signed

09/07/2012

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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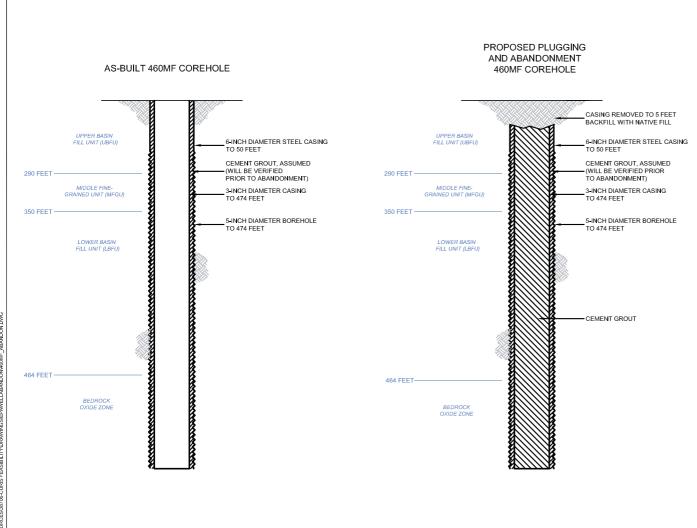
459S COREHOLE DIAGRAM



<b>⊕</b> E	PA		PLU		Washii	ngton, I	tal Protection DC 20460	n Agency	.AN			
Floren	nd Address of F ce Copper Pro W Hunt Hwy,	ject	zona 85132			(	Curis Resou	rces (Arizon rt Hwy, Flor	a) Inc	na 85132		
0.000000	cate Well and C		ì	0.000	ate rizona	•	1 1	County Pinal		Francisco de la companya del la companya de la comp	Number 6000001	*
w Size	ction Plat - 640	ACTES  N  I I I I I I I I I I I I I I I I I		Su N' Lo Su Lo an	w 1/4 of N cate well in rface cation 1190 d 1080 ft. f TYI Individu Area Per Rule Number of	W 1/4 on two don two d	escription of SE 1/4 of irections from (N/S) S to W) E Line OUTHORIZATION	SW 1/4 of m nearest lin ine of quarter of quarter so	r section oction.	WELL A SS I SS II Brine Dispose Enhanced Re Hydrocarbon SS III ber 460MF	4S Range drilling unit ACTIVITY al covery Storage	
6	13.70	0		45		7.88		Th				
								Ot	her			
	CEMENTING	S TO PLUG AND	ABANDON DA	ATA:		_UG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	tole or Pipe in			inche	3		1					
-	Bottom of Tul		***************************************		18		+					-
	olume To Be Pi				1.5.5	3.02	1					
	ed Top of Plug				5		1	1				
	d Top of Plug (				5							
Slurry V	/t. (Lb./Gal.)				15	.6		].[				
Type Ce	ment or Other I	Material (Class	111)		V							
	LIS	ST ALL OPEN H	IOLE AND/OR	PERFORATE	D INTERV	ALS AN	D INTERVAL		ING WILL BE	VARIED (if a		
	From		-	То		-		From			То	
474			5									
-			1			-						
\$13,71	ed Cost to Plug 5	Wells										
at in po	ertify under the tachments and formation is trussibility of fine and Official Title	that, based or ie, accurate, a a and imprison	n my inquiry o nd complete. iment. (Ref. 4	f those indiv I am aware	kamined an viduals imr that there	nediate are sigr	amiliar with t	le for obtaini	ng the inforn	nation, I belie	eve that the	
Dan Io	hoson VP En	vironment an	d Technical S	Services			1				-1 -	1

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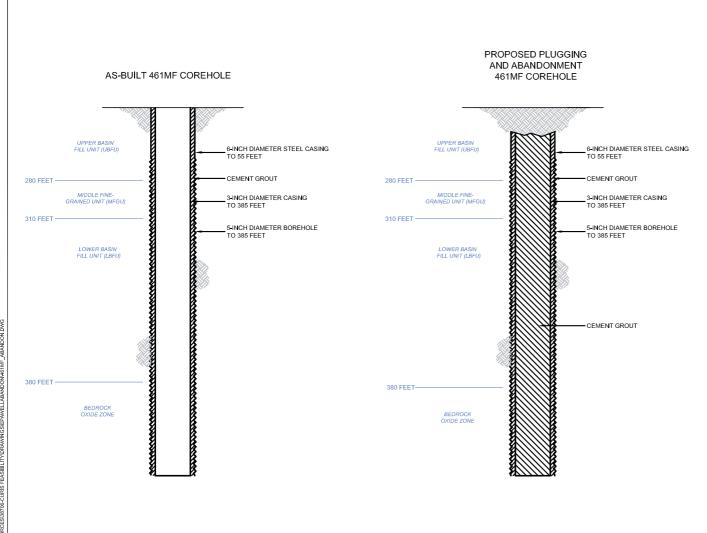
.C.EDA

United States Environmental Protection Agency Washington, DC 20460

ACLA	PLUGG	ING ANI	O ABAI	NDON	MENT PL	AN					
Name and Address of Facility	200 May 100 P 20 May 100 P		Na	ame and Ad	dress of Owner	/Operator					
Florence Copper Project 1575 W Hunt Hwy, Florence	Arizona 85132				ırces (Arizona nt Hwy, Flore		85132				
Locate Well and Outline Un Section Plat - 640 Acres	it on	State Arizona		*	County Pinal		Permit I	Number 6000001			
N		Surface Le	Surface Location Description								
		NE 1/4 o	NE 1/4 of NE 1/4 of SW 1/4 of SW 1/4 of Section 28 Township 4S Range 9E								
	+- +-	Surface Location 1	180 ft. frm	two directions from nearest lines of quarter section and drilling unit ft. frm (N/S) $S$ Line of quarter section on (E/W) $W$ Line of quarter section.							
w little		Value of the same	TYPE OF A	UTHORIZAT	ION	_	WELL A	CTIVITY			
	i i  -	Company Company	idual Perm	iit		CLASS					
		✓ Area				CLASS		10			
-+- <b>-</b> -+-		Rule					ine Disposa				
	_L_L	Number	of Wells 1			Towns .		ced Recovery			
		177-9-5/00/00/00/00/00/00				│ Hydroca					
S			NA				D				
		Lease Nan	ne TVA			Well Number 461MF					
CASING AND	TUBING RECORD AFTI	ER PLUGGING			METH	OD OF EMPLA	CEMENT O	F CEMENT PL	ugs		
		BE LEFT IN WE		· The Balance Method							
6   13.70-EST   0	50			7.88 The Dump Bailer Method							
3 9.11-EST. 0	380			5 The Two-Plug Method							
					Other						
		7	D1110 #4	T 20 110 110	DI 110 #0	D: 110 #4	DI 110 #F	DI 110 40	PLUG #7		
Size of Hole or Pipe in which Plu	AND ABANDON DATA:		PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
Depth to Bottom of Tubing or Dri			385	ii —							
Sacks of Cement To Be Used (eac	ch plug)		14.5								
Slurry Volume To Be Pumped (cu	. ft.)		18.7			1 1					
Calculated Top of Plug (ft.)			5								
Measured Top of Plug (if tagged f	t.)		5								
Slurry Wt. (Lb./Gal.)			15.6								
Type Cement or Other Material (C	lass III)		V								
				and the second second	1001-1-0	The second secon	The state of the s				
	EN HOLE AND/OR PERF		RVALS AND	INTERVAL		ING WILL BE	/ARIED (if a				
From		ORATED INTE	RVALS AND	INTERVAL	S WHERE CAS From	NG WILL BE	/ARIED (if a	ny) To			
From			RVALS AND	INTERVAL		NG WILL BE	VARIED (if a				
			RVALS AND	) INTERVAL		NG WILL BE	VARIED (if a				
From			RVALS AND	) INTERVAL		NG WILL BE	VARIED (if a				
From 385			RVALS AND	) INTERVAL		NG WILL BE	VARIED (if a				
From 385			RVALS AND	DINTERVAL		NG WILL BE V	VARIED (if a				
From 385  Estimated Cost to Plug Wells \$13,715  I certify under the penalty cattachments and that, base information is true, accurate	of law that I have personed on my inquiry of those, and complete. I am	Conally examined e individuals aware that the	Certificat	tion miliar with y responsil	From the information	submitted in	this docun	To  To  nent and all ve that the			
From  385  Estimated Cost to Plug Wells \$13,715  I certify under the penalty of attachments and that, base information is true, accurate possibility of fine and impressibility of fine and impressibility.	of law that I have person do n my inquiry of thos te, and complete. I am isonment. (Ref. 40 CFR	To  Conally examined e individuals aware that the talet 144.32)	Certificat I and am fa immediatel re are sign	tion miliar with y responsil	From the information	submitted in	this docun tion, I belie formation, i	To nent and all ve that the ncluding the			
From  385  Estimated Cost to Plug Wells \$13,715  I certify under the penalty of attachments and that, base information is true, accurate	of law that I have person and on my inquiry of thos te, and complete. I am isonment. (Ref. 40 CFF	To  Conally examined e individuals aware that the tat 444.32)	Certificat I and am fa immediatel re are sign	tion miliar with y responsil	From the information	submitted in	this docun tion, I belie formation, i	To  To  nent and all ve that the			

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<b>⊕</b> E	PA	PLU		Wa	shington	ntal Protection , DC 20460 ANDONM		AN			
Name an	d Address of Facility					Name and Add	STORESTEEN BUSIN	IN HOUSE			
Floren	ce Copper Project V Hunt Hwy, Florenc	ce Arizona 85132				Curis Resour 1575 W Hun	ces (Arizon	a) Inc	ıa 85132		
100000000000000000000000000000000000000	cate Well and Outline	Unit on		State Arizona			ounty Pinal			Number 6000001	
	N N					escription of SW 1/4 of	SW 1/4 of	Section 28	Township	4S Range	9E
		<del> </del>		Locate w Surface Location	ell in two		n nearest line	es of quarter	ter section and drilling unit		
w		E		Area	vidual Per a Permit e r of Wells		ON.	☐ E ☐ H ☑ CLA	SS I SS II Brine Dispos Inhanced Re Hydrocarbon SS III	covery Storage	
	s			Lease Na	me NA			Well Num	ber 462MF		
SIZE 3		E PUT IN WELL (FT)		ER PLUGGING  BE LEFT IN WELL (FT) HOLE SIZ  15  17.88			✓ Th				
	CEMENTING TO PLI	UG AND ABANDON DA	ATA:		PLUG#	1 PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #
Size of H	ole or Pipe in which F		0017/10/7		3				1,,-,-,,,,,		
epth to	Bottom of Tubing or	Drill Pipe (ft			494						
acks of	Cement To Be Used (	each plug)			18.7						
Slurry Vo	olume To Be Pumped (	cu. ft.)			24						
	ed Top of Plug (ft.)				5						
	d Top of Plug (if tagge	d ft.)			5	-					
	t. (Lb./Gal.) nent or Other Material	(Ol III)			15.6					-	
ype Cer		No.			V						
		OPEN HOLE AND/OR		ATED INTE	RVALS A	ND INTERVALS		ING WILL BE	VARIED (if a	To	
494	From	5	То		- 1		From			10	
434		19			- 11						
stimate	d Cost to Plug Wells										
\$13,71	5										

I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)

Name a	nd Official	Title /	Please	type or	print)

Dan Johnson, VP Environment and Technical Services

Signature

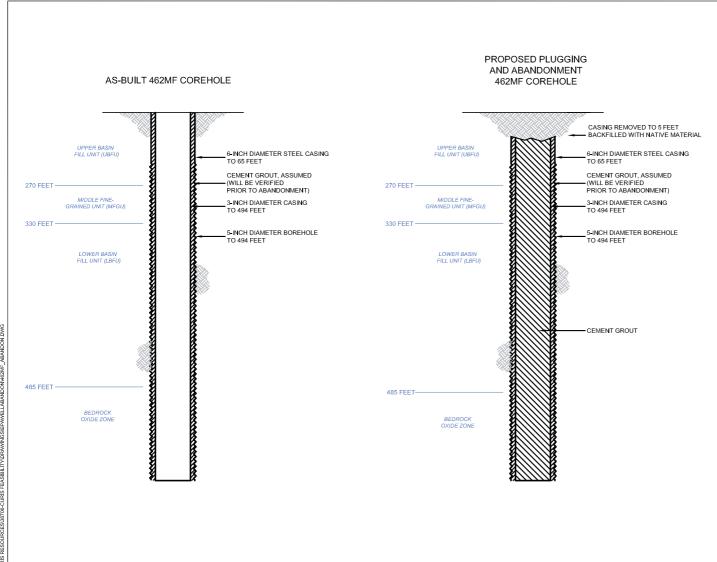
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Date Signed

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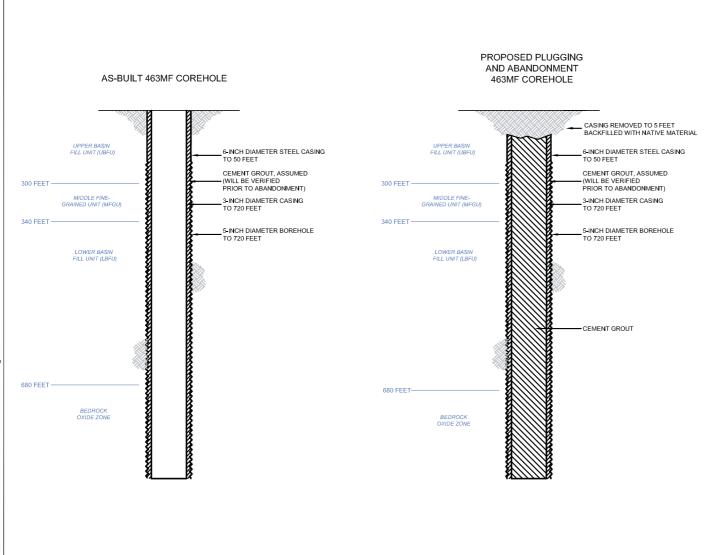
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United States Environmental Protection Agency Washington, DC 20460

W.E.	PA		PLU	JGGII	NG AN	D ABA	NDON	ME	ENT PL	AN				
	d Address of F					-1 13			ess of Owner					
	ce Copper Pro V Hunt Hwy, l		ona 85132						es (Arizona Hwy, Flore		na 85132			
	ate Well and C				State Arizona	i			unty nal		gradient bestired in the property	Number 6000001		
		17.1			Surface L	ocation De	scription	_						
	T T T	N T			NW 1/4	of NE 1/4	of SW 1/4	of S	W 1/4 of	Section 28	Township	4S Range	9E	
		-    -    -	-		Surface Location	1290 ft. frm ft. from (E/	(N/S) S w) W Li	_Lin	ne of quarter f quarter sec	section	section and	drilling unit		
w —							UTHORIZA	TION	4			ACTIVITY		
10	i i i		_ i _ l =		(manufacture)	vidual Perr	nit			CLAS				
	i i i	- <del></del> i			promote and the second	a Permit				CLA		4		
-	+		-+-		Rul	е				-	Brine Dispos			
	ユーレユ.	Number	r of Wells					nhanced Re lydrocarbon	449 (448 H.H.)					
	1 1 1	1 1							V CLAS	<u> Grand de la company de la co</u>	atorage			
		s			The Production of the State of	NA								
		1072			Lease Name						ber 463MF		1100	
0175	0.000	SING AND TUE		Control Source	et illen transmitte	334	HOLEST	75	0.0000000000000000000000000000000000000			F CEMENT PI	LUGS	
SIZE	WT (LB/FT)	TO BE PUT IN	-	BE LEFT IN WELL (FT) HOLE SIZE				-	Balance Me					
3   9.11-EST.   0   715 6   13.70-EST.   0   45						-	7.88			Dump Baile				
0	13.70-E31.	0		43			1.00	-		Two-Plug N	lethod			
-				+					Other					
	CEMENTING	TO PLUG AND	ABANDON D	ATA:		PLUG #1	PLUG #	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of H	ole or Pipe in			10.000		3	T							
Depth to	Bottom of Tub	ing or Drill Pip	e (ft			720	Ti.							
Sacks of	Cement To Be	Used (each plu	ıg)			27.4								
Slurry Vo	olume Το Be Ρι	ımped (cu. ft.)				35.10								
	d Top of Plug					5								
	d Top of Plug (i	if tagged ft.)				5	1							
	t. (Lb./Gal.)	Interiol (Olevenia				15.6		4					-	
Type Cen	nent or Other N	000	William .			V	111				MARINE III			
		T ALL OPEN H	OLE AND/OR			RVALS AN	D INTERVA			ING WILL BE	VARIED (if a	To		
720	From		5	То		11			From			10		
120			19					_						
-														
Estimate	d Cost to Plug	Wells												
\$13,71	5													
						Certifica	tion		<i>b</i> 32 - 4	ga saokii owa	W 700 W	1) A v		
att inf	ertify under the achments and ormation is tru ssibliity of fine	that, based on e, accurate, ar	my inquiry o	of those	individuals are that th	immediate	ly respons	sible	for obtaining	g the inform	nation, I belie	eve that the	1	
Name an	d Official Title	(Please type o	r print)		Sign	nature				W	T	Date Signed		
Dan Jol	nson, VP En	vironment and	l Technical	Services	ices				Llana					
					09/07/201							Limory		

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HALEY& CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA

463MF COREHOLE DIAGRAM

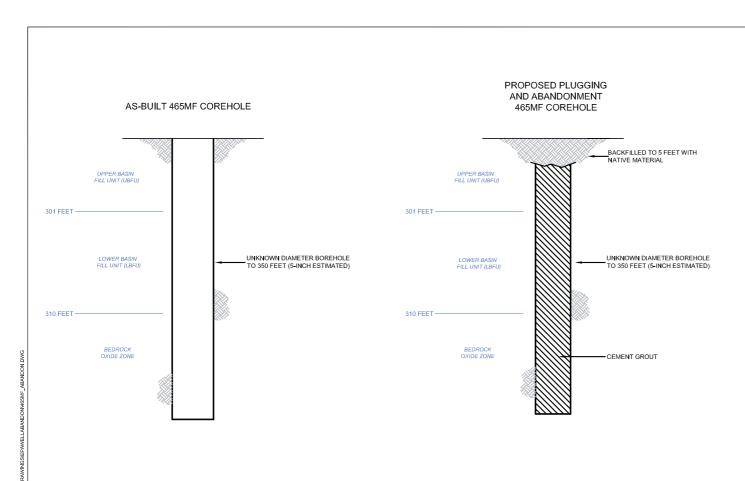
HDICURIS SCALE: NOT TO SCALE
AUGUST 2012

FIGURE 1

≎E	PA			Wa	shington,	ntal Protection	on Agency  MENT PL	AN			
Floren	nd Address of F ace Copper Pro W Hunt Hwy,	TOTAL OF THE STATE		NO AN		Name and Ac Curis Reso	dress of Owne urces (Arizon int Hwy, Flor	r/Operator a) Inc	ıa 85132		
	cate Well and C			State Arizona			County Pinal		100000000000000000000000000000000000000	Number 6000001	
36	ction Flat - 040 7	N		E ALC: VALUE OF COMMENT		Description					pliesking.
Г	!!!	1 ! ! !	$\neg$	NW 1/4	of <u>NW</u> 1/4	of <u>SE</u> 1/4	of <u>SW</u> 1/4 of	Section 28	Township	4S Range	9E
w	+		E	Surface Location and 1190 Indi  Area	1010 ft. fr ft. from (E TYPE OF vidual Per a Permit	m (N/S) S E/W) W Lin	om nearest lin Line of quarte ne of quarter so	ction.	WELL A	ACTIVITY	
l H	-i-i-i-	- <b>⊩</b> -iii-	-	Rul	е				Brine Dispos Enhanced Re		
-	<u> </u>	_	_	Number	r of Wells	1		2	:nnanced ∺e Iydrocarbon	The second second second	
	<u> </u>							V CLA	-		
		s		Lease Na	me NA			Well Num	ber 465MF		
	CA	SING AND TUBING R	ECORD AFTER	RPLUGGING	3		METH	IOD OF EMPL	No. of Contract Contr	CONTRACTOR SOCIETY	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN WELL	(FT) TO BE	LEFT IN W	ELL (FT)	HOLE SIZ	E / Th	e Balance Me	ethod		
NA	NA	NA	NA			NA		e Dump Baile			
-					_			e Two-Plug N ner	Method		
								ner		1000	
	CEMENTING	TO PLUG AND ABAN	DON DATA:		PLUG#	1 PLUG#	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
		which Plug Will Be P	laced (inche:		5-EST						
		ling or Drill Pipe (ft Used (each plug)			NA 36.7				-	-	
	olume To Be Pu				47		-				
The second second	ed Top of Plug				5		il				
	d Top of Plug (				5						
Slurry V	/t. (Lb./Gal.)				15.6						
Type Ce	ment or Other N	laterial (Class III)			V						
		T ALL OPEN HOLE A			ERVALS A	ND INTERVA		ING WILL BE	VARIED (if a		
250	From		Т	•	7		From			То	
350					-						
\$13,7	ed Cost to Plug 15	Wells									
at in po	tachments and formation is tru ossibliity of fine	e penalty of law that I that, based on my in ie, accurate, and com a and imprisonment.	quiry of those plete. I am av (Ref. 40 CFR	lly examine individuals ware that th	immediat	familiar with tely responsi	ible for obtaini	ng the inforn	nation, I beli	eve that the including the	
Annual and Supplemental Supplem		(Please type or print vironment and Tech			nature		()			Date Signed	

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465MF COREHOLE DIAGRAM



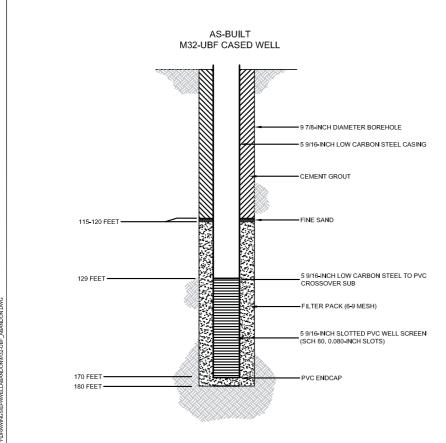
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90	<b>1</b>	-

United States Environmental Protection Agency Washington, DC 20460

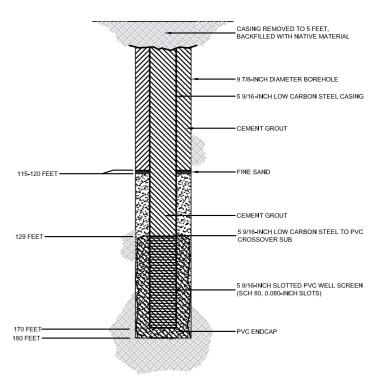
W.E	ra		PLU	GGI	IG AN	D ABA	INA	ООИ	IENT PL	AN					
A STATE OF THE PARTY OF THE PAR	d Address of F						Vame	and Ad	dress of Owne	r/Operator	1				
	ce Copper Pro V Hunt Hwy,		ona 85132						rces (Arizona nt Hwy, Flore		a 85132				
	cate Well and C			•	State Arizona				County Pinal		gradientification in	Number 6000001			
		N			Surface L	ocation D	escr	iption			•				
	1 1 1	N I			NE 1/4	of SE 1/4	of N	IE 1/4 o	f <u>SE</u> 1/4 of	Section 28	Township	4S Range	9E		
-		-    -	- <del> </del> -   - <del> </del> -		Surface Location	720 ft. fri ft. from (E	m (N/	s) <u>N</u> E Line	om nearest line Line of quarter e of quarter se	section	2000(464)	554 554			
w	+++				Ь	TYPE OF		HORIZAT	ION	П		ACTIVITY			
	<b></b>				1 incoming	vidual Per a Permit	mit			CLAS					
	1 1 1		! *		Rule						rine Dispos	al			
	<del>    .</del>				-	of Wells	1			<u>□</u> E	nhanced Re	covery			
	1 1 1						V CLAS	ydrocarbon	Storage						
-			Lease Name NA						mag-U	BF					
	CA	AFTER	ER PLUGGING				METH	OD OF EMPL			LUGS				
SIZE	WT (LB/FT)	TO BE PUT I	TO BE	BE LEFT IN WELL (FT) HOLE SIZE				F 77							
5.6	15-EST.	165			6	1000	7 P III	e Balance Me							
0.0	10 201.	0		100						☐ The Dump Bailer Method ☐ The Two-Plug Method					
										Other					
	CEMENTING	TO PLUG AND	ABANDON DA	TA:		PLUG #1	1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
	lole or Pipe in			nche:		5.6									
	Bottom of Tub					180	-		4				ļ		
	Cement To Be olume To Be Pu		ug)			22.0	+	-							
	ed Top of Plug					5		-							
	d Top of Plug (					5									
Slurry W	t. (Lb./Gal.)					15.6									
Type Cer	ment or Other M	Material (Class	III)			V									
	LIS	T ALL OPEN H	OLE AND/OR	PERFOR	ATED INTE	RVALS AN	ND IN	ITERVAL	S WHERE CAS	ING WILL BE	VARIED (if a	iny)			
	From			То					From			То			
170			129-PERF	ORATE	D	3									
129			5-BLANK												
-				-					*						
Estimate	d Cost to Plug	Wells					-								
\$13,71	_	***************************************													
						Certific	atio	n							
ati int	ertify under the tachments and formation is tru ssibliity of fine	that, based on le, accurate, ar	my inquiry o	f those i I am aw	ndividuals are that th	immediat	ely r	esponsil	ole for obtaini	ng the inform	ation, I belie	eve that the			
Name an	d Official Title	(Please type o	or print)		Sign	nature		/	10			Date Signed			
	hnson, VP En			Services		5	2	5				09/07	-12012		
							_	-							

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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#### PROPOSED PLUGGING AND ABANDONMENT M32-UBF CASED WELL





M32-UBF CASED WELL DIAGRAM

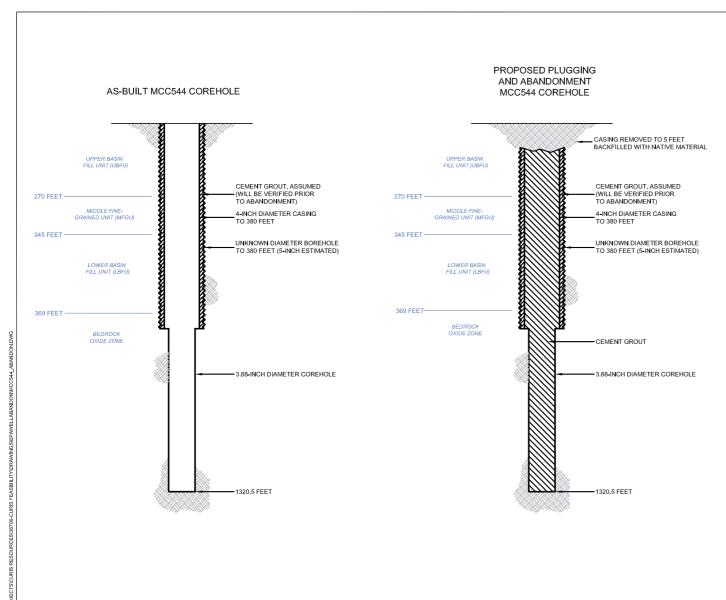


FIGURE 1

₽E	PA		PLU		Was	shington,	ntal Protect , DC 20460		Agency ENT PL	AN			
Florer	nd Address of F ice Copper Pro W Hunt Hwy,	oject	ona 85132				Curis Res	ourc	ess of Owne es (Arizona Hwy, Flore		ıa 85132		
	cate Well and C				State Arizona				ounty inal		F-5-5-5-4-6-4-6-4-6-4-6-4-4-6-4-4-4-4-4-4	Number 6000001	
_		N			Surface L	ocation D	Description	1					
	111	i i		}	SE 1/4 o	f <u>SE</u> 1/4	of <u>NW</u> 1/4	of S	SW 1/4 of	Section 28	Township	4S Range	9E
	++ ++	- -  -   - -  -   - -  -		8	Surface Location <sup>1</sup> and <u>1170</u> f	1 <u>180</u> ft. fr ft. from (E	m (N/S) <u>N</u>	_Lir	ne of quarter of quarter se	section	section and	drilling unit	
w	+++		E		,	idual Pe		(IIOI	N	☐ CLA		CHVIII	
l H	<b>+-</b>  -+	- <del> -  </del> -			✓ Area					CLA			
_	1-L				Rule	).				E	Brine Dispos	al	
	111				Number	of Wells	1				nhanced Re	15	
	<b>†</b>	<b>- -</b> i	- <del></del>								lydrocarbon	Storage	
-		s				NA				V CLA			
		3			Lease Nan	ne INA				Well Num	MCC54	14	
	CA	ASING AND TU	BING RECORE	AFTER F	LUGGING	1			METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE	WT (LB/FT)	TO BE PUT I	N WELL (FT)	TO BE L	EFT IN WE	ELL (FT)	HOLE SI	ZE	✓ The	Balance Me	thod		
4	10.79-EST.	0		375			5 EST		The	Dump Baile	er Method		
				ļ			1	_	The	Two-Plug N	lethod		
-				-				-	U Oth	ner			
_	CEMENTING	TO DI UC AND	ABANDON D	TA	T	PLUG#	1 PLUG	42	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of	Hole or Pipe in	TO PLUG AND				3.88	4	#2	PLUG #3	PLUG #4	FLUG #5	PLUG #0	PEGG W/
	Bottom of Tul					NA	380						
_	f Cement To Be		1 1			60.2	25.5						
Slurry V	olume To Be P	umped (cu. ft.)	- CAN			77.22	32.72						
	ed Top of Plug					380	5						
	d Top of Plug (	if tagged ft.)				380	5						-
	/t. (Lb./Gal.) ment or Other I	Material (Class	IIIN.		_	15.6	15.6 V	-			-		
Type Ce			AND COMPANY OF THE PARTY OF THE	DEDECD.		V			AULEDE CAC	INC WILL DE	WADIED (IS		
	From	ST ALL OPEN F	IOLE AND/OR	To	(IED INTE	RVALS A	ND IN LEKY		From	ING WILL BE	VARIED (II a	To	
1320.5			380	10					110111				
380			5										
\$13,7	ed Cost to Plug	Wells											
					-	Cortifi -	ation						
at in	certify under the tachments and formation is tre possibliity of fine	that, based or ue, accurate, a	n my inquiry o	f those in I am awa	examined dividuals re that the	immediat	familiar wit	sible	for obtaining	ng the inforn	nation, I belie	eve that the	
Name a	nd Official Title	(Please type (	or print)		Sign	ature			)		Т	Date Signed	
		vironment an		Services	5	1		/	1			-01-7	1

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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HALEY& CURIS RESOURCES (ARIZONA) INC. FLORENCE, ARIZONA ALDRICH MCC544 COREHOLE DIAGRAM HDICURIS SCALE: NOT TO SCALE AUGUST 2012 FIGURE 1

**ŞEPA** 

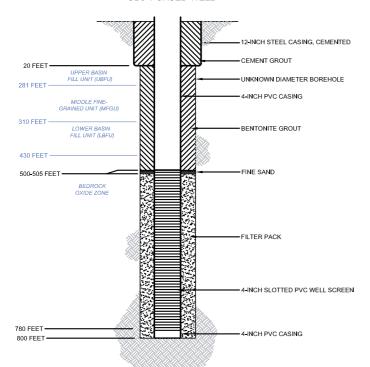
United States Environmental Protection Agency Washington, DC 20460

SCIA	PLUGGING A	AND ABA	ANDONN	IENT PL	AN				
Name and Address of Facility	man or several process of the State of		Name and Add	iress of Owner	r/Operator				
Florence Copper Project 1575 W Hunt Hwy, Florence Ariz	cona 85132			rces (Arizona nt Hwy, Flore		a 85132			
Locate Well and Outline Unit on Section Plat - 640 Acres	State Ari	e zona	1 1	County Pinal			Number 3000001		
( <del>9/10/10/00/00/00/00/00/00/00/00/00/00/00/</del>	Surf	ace Location D	Description						
N N	NW	1/4 of SW 1/4	of <u>NE</u> 1/4 of	SW 1/4 of	Section 28	Township	4S Range	9E	
	Surfa	ntion 940 ft. fr 1280 ft. from (E	m (N/S) N L E/W) E Line	ine of quarter	section				
l w <del>l i i l i i</del>			AUTHORIZATI	ON	П		CTIVITY		
		Individual Pe	rmit		CLAS			,	
•		Area Permit Rule			CLAS	ıs II rine Disposi			
			(2 )		1	nhanced Re			
│ ├ <del>─</del> ┼─├─┼─ <b>├</b> ─┼─┆	Nu	mber of Wells	1		1	ydrocarbon			
					✓ CLAS		100005010 <del>16</del> 07		
s	Leas	NA NAme			Well Numb	OP2 I			
CASING AND TU	BING RECORD AFTER PLUG			METH	OD OF EMPL		F CEMENT PL	ugs	
SIZE WT (LB/FT) TO BE PUT I	N WELL (FT) TO BE LEFT	IN WELL (FT)	HOLE SIZE	✓ The	Balance Met	thod			
4 2.78-EST. 0	795		UNK		Dump Baile				
12 41.45-EST. 0	15		UNK	The Two-Plug Method					
				Other					
				]	40015.		No.		
CEMENTING TO PLUG AND	ABANDON DATA:	PLUG #	1 PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of Hole or Pipe in which Plug Wi	II Be Placed (inche	4							
Depth to Bottom of Tubing or Drill Pi		800							
Sacks of Cement To Be Used (each plu	ug)	54.1							
Slurry Volume To Be Pumped (cu. ft.)		69.4							
Calculated Top of Plug (ft.)		5				-			
Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.)		15.6							
Type Cement or Other Material (Class	III)	V	-						
			ND INTERVAL	WHERE CAS	ING WILL BE	VADIED (If -	mu)		
From	OLE AND/OR PERFORATED To	INTERVALS A	ND INTERVAL	From	ING WILL BE	VARIED (If a	To		
800	780-BLANK	)		11700					
780	500-PERFORATED			-					
500	5-BLANK								
Estimated Cost to Plug Wells	<b>9</b> 0								
\$13,715									
		Certific	ation						
I certify under the penalty of lav attachments and that, based on information is true, accurate, ar possiblity of fine and imprison	my inquiry of those individual and my inquiry of those individual and my individual	duals immediated the signal and there are signal are signal.	tely responsib	le for obtainin	g the inform	ation, I belie	ve that the	8	
Name and Official Title (Please type of	or print)	Signature					Date Signed		
Dan Johnson, VP Environment and	d Technical Services	2	5	M	_		09/07	12012	
Description of the second seco									

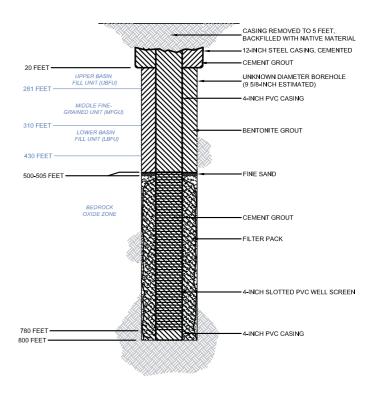
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#### AS-BUILT **OB3-1 CASED WELL**



#### PROPOSED PLUGGING AND ABANDONMENT **OB3-1 CASED WELL**





OB3-1 CASED WELL DIAGRAM



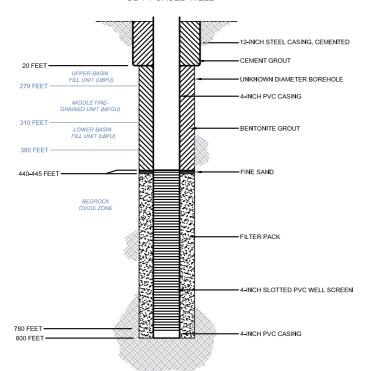
<b>≎EPA</b>	DI I		Was	hington,	ntal Protect		Agency ENT PL	ΔN			
Name and Address of Facility	FLC	JGGII	IG ANL				ess of Owne				
Florence Copper Project							es (Arizona				
1575 W Hunt Hwy, Florence Arizon	na 85132							nce, Arizor	ona 85132		
Locate Well and Outline Unit on Section Plat - 640 Acres			State Arizona			167770	ounty inal		Permit Number AZ396000001		
A	- 7		Surface Lo	cation D	escription						
N N			NE 1/4 of	NE 1/4	of SW 1/4	of S	SW 1/4 of	Section 28	Township	4S Range	9E
	+-		Surface Location 1 and 1260 f	070 ft. fr t. from (E TYPE OF	m (N/S) S E/W) W LI AUTHORIZA	_Lin	ne of quarter of quarter se	section	WELL	drilling unit	
s	+-		Indivi	of Wells				☐ E	SS II rine Dispos nhanced Re ydrocarbon	covery	
CASING AND TUBI	IG RECORE	AFTER					METH	No.		F CEMENT P	LUGS
Accordance (A) or accompany of the Anna	IZE WT (LB/FT) TO BE PUT IN WELL (FT)					7F	_				
4 2.78-EST. 0	WELL (FI)	795	LEFT IN WE	LL (F1)	UNK			Balance Me			
12 41.45-EST. 0		15			UNK			Dump Baile Two-Plug M			
10 1110 2011		10.5					Oth		etilou		
CEMENTING TO PLUG AND A	BANDON DA	ATA:		PLUG#	1 PLUG	<b>#2</b>	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #
Size of Hole or Pipe in which Plug Will	Be Placed (	inche		4							
Depth to Bottom of Tubing or Drill Pipe	(ft			800	][						
Sacks of Cement To Be Used (each plug	)			54.1							
Slurry Volume To Be Pumped (cu. ft.)				69.4							
Calculated Top of Plug (ft.)				5	_	-			-		
Measured Top of Plug (if tagged ft.)				5 15.6	1						-
Slurry Wt. (Lb./Gal.) Type Cement or Other Material (Class III				V		-			-		
LIST ALL OPEN HO		DEDEOR			ND INTERVA	101	WHERE CAS	ING WILL BE	VARIED (if a	any)	
From	LE AND/OR	To	ATEDINTER	TVALS A	ND INTERVA	_	From	ING WILL BE	VARIED (II a	To	
Security -	780-BLAN	2595					. ,	1			
	440-PERF		D	- 1							
	5-BLANK					_					
	A CONTRACTOR OF THE PARTY OF TH	ň.									
Estimated Cost to Plug Wells \$13,715											
I certify under the penalty of law t			y examined		familiar witl						
attachments and that, based on m information is true, accurate, and possibility of fine and imprisonments.	complete. ent. (Ref. 4	I am awa	are that the	re are sig					nformation,		

Dan Johnson, VP Environment and Technical Services

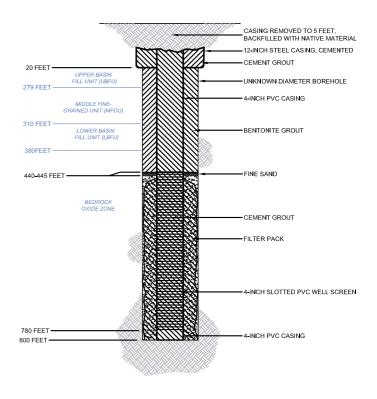
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#### AS-BUILT **OB4-1 CASED WELL**



#### PROPOSED PLUGGING AND ABANDONMENT **OB4-1 CASED WELL**





**OB4-1 CASED WELL DIAGRAM** 



09/07/2012

		United State			Protection		o. 2040- cy	0042 Ap	provar Expire	es 11/30/2014	
<b>\$EPA</b>	PLU	GGING A	Washingto ND AB			IEN.	T PL	AN			
Name and Address of Facility				Nam	ne and Add	dress o	f Owner	/Operator			
Florence Copper Project 1575 W Hunt Hwy, Florence Arize	and Address of Facility ence Copper Project W Hunt Hwy, Florence Arizona 85132  ocate Well and Outline Unit on ection Plat - 640 Acres  N  N  CASING AND TUBING RECORD  WT (LB/FT) TO BE PUT IN WELL (FT)  5.31-EST. 0  41.47-EST. 0  CEMENTING TO PLUG AND ABANDON DA Hole or Pipe in which Plug Will Be Placed (in the Bottom of Tubing or Drill Pipe (ft of Cement To Be Used (each plug)  Volume To Be Pumped (cu. ft.) ated Top of Plug (if tagged ft.) Wt. (Lb./Gal.) cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR is From  780-BLAN				ris Resou 75 W Hu			n) Inc ence, Arizor	na 85132		
Locate Well and Outline Unit on		State Arize	опа			County Pinal			prisonal females and an	ermit Number AZ396000001	
<del></del>		Surfac	ce Location	Desc	ription						
N N		NW 1	1/4 of SW 1	/4 of	NE 1/4 o	SW 1	1/4 of	Section 28	Township	4S Range	9E
w	E	Surface Location and 12	to 870 ft. 290 ft. from TYPE O	frm (N (E/W)	N/S) N I	Line of e of qua	quarter	section ction.	WELL . SS I	drilling unit	
s	- <del> </del> -   - <del> </del> -		Rule hber of Well	s 1				☐ E	DV4/2 1	covery	
CASING AND THE	NG RECORD					T	METHOD OF EMPLACEMENT OF CEMENT PLUGS				
		TO BE LEFT IN		1	IOLE SIZE						
	A VVELL (FI)	795	VVELL (FI)		INK	-		Balance Me			
		15		1000	NK	1		Dump Baile Two-Plug N			
12 31,17 231,		10					Oth		ietnod		
		1				Ţ		(7)			
CEMENTING TO PLUG AND	ABANDON DA	TA:	PLUG	#1	PLUG #2	PLU	JG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #
Size of Hole or Pipe in which Plug Wil	II Be Placed (i	inche:	6								
Depth to Bottom of Tubing or Drill Pig	oe (ft		800								1
Sacks of Cement To Be Used (each plu	1 <b>g</b> )		121.8								
Slurry Volume To Be Pumped (cu. ft.)			156.1			1					-
			5			-	_				
			15.6	-	-	-					
	III)		V			1					
Hardway Administration		DEDEODATEDI	-	AND	INTERVAL	S WHE	DE CAS	ING WILL BE	VARIED (if	inv)	
	OLE ANDION	To	HILKVALO		MILKVAL	Fron	ATT 15 CONT. 14	INO WILL DE	· VAIGLE (III	To	
800	780-BLAN							1			
780											
500	5-BLANK										
Estimated Cost to Plug Wells \$13.715											
I certify under the penalty of lav	y that I have "	sere anally avam	Certifi			the info	vrmatics	a submitted	in this docu	ment and all	
attachments and that, based on information is true, accurate, ar possibliity of fine and imprison	my inquiry o	f those individu I am aware tha	ıals immedi	ately	responsit	ble for o	obtainir	ng the inform	nation, I beli	eve that the	
Name and Official Title (Please type of	e orint)	To	Signature	_		1				Date Signed	

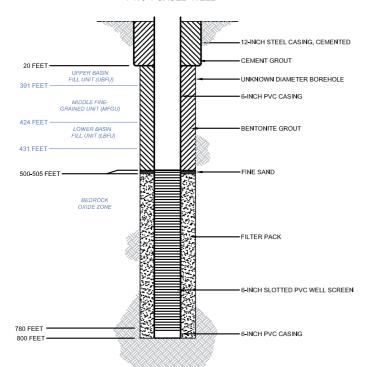
Name and Official Title (Please type or print)

Dan Johnson, VP Environment and Technical Services

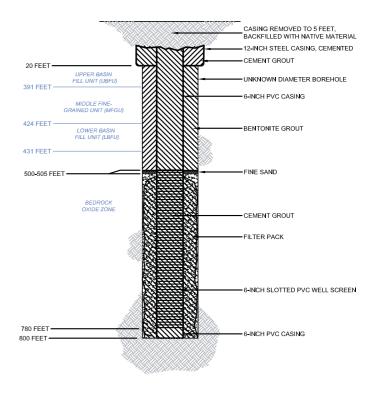
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#### AS-BUILT PW3-1 CASED WELL



#### PROPOSED PLUGGING AND ABANDONMENT PW3-1 CASED WELL





PW3-1 CASED WELL DIAGRAM



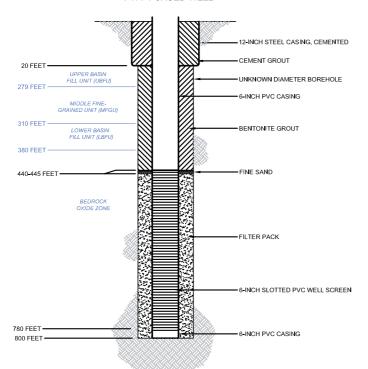
FIGURE 1

<b>≎EPA</b>			ashington,	DC 20460					
	PLU	GGING AN	ID ABA	MDONN	IENT PL	.AN			
Name and Address of Facility Florence Copper Project 1575 W Hunt Hwy, Florence Ariz	ona 85132			Curis Resou	dress of Owne irces (Arizon nt Hwy, Flor	a) Inc	ıa 85132		
		State			County	atmictal net in the angel	Permit	Number	
Locate Well and Outline Unit on Section Plat - 640 Acres		Arizon	a		Pinal		AZ39	6000001	
N		Surface	Location D	escription					
		NE 1/4	of <u>NE</u> 1/4	of <u>SW</u> 1/4 o	f SW 1/4 of	Section 28	Township	4S Range	9E
		Surface Location	1020 ft. fro ft. from (E	m (N/S) <u>S</u> ( E/W) <u>W</u> Line	m nearest lin Line of quarte e of quarter se	r section	section and	drilling unit	
l w <del>l i i i l i i</del>	——————————————————————————————————————			AUTHORIZATI	ON			ACTIVITY	
	_ i   [	lament .	lividual Per	mit		L CLA			
		years y	ea Permit			CLA		247	
	-+-	Ru				-	Brine Dispos Inhanced Re		
		Numbe	er of Wells	1		4	lydrocarbon		
		1				V CLA	-	otorago	
S		Lease Na	NA				ber PW4-1		
CASING AND TUE	NG PECOPD		327		METH	OD OF EMPL	700000000000000000000000000000000000000	E CEMENT P	LUGS
SIZE WT (LB/FT) TO BE PUT II		TO BE LEFT IN V		HOLE SIZE				F CEMENT F	2003
6 5.31-EST. 0	V VVELL (FI)	795	VELL (FI)	UNK	⊣ ≌'''	e Balance Me			
12 41.47-EST. 0		15		UNK		e Dump Baile			
11.17 201.		10		OTTE	Oti	e Two-Plug N	ietnoa		
					1 - 0.	101			
CEMENTING TO PLUG AND	ABANDON DA	TA:	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Wi	II Be Placed (i	nche	6		T				
Depth to Bottom of Tubing or Drill Pip	oe (ft		800						
Sacks of Cement To Be Used (each plu	ıg)		121.8						
Slurry Volume To Be Pumped (cu. ft.)			156.1						
Calculated Top of Plug (ft.)			5						
Measured Top of Plug (if tagged ft.) Slurry Wt. (Lb./Gal.)			5						-
Type Cement or Other Material (Class	III)		15.6 V						
LIST ALL OPEN H		PERFORATED INT		ID INTERVAL	S WHERE CAS	ING WILL BE	VARIED (if s		
From	OLE AND/OK	To	EKVALS AI	4D INTERVAL	From	III DE	VARIED (II C	To	
800	780-BLAN	67674			DO AND			.3.0	
780	440-PERFO								
440	5-BLANK								
Estimated Cost to Plug Wells \$13,715									
			Certifica	ation					
I certify under the penalty of law attachments and that, based on information is true, accurate, ar possiblity of fine and imprison	my inquiry of d complete.	ersonally examin those individual I am aware that tl	ed and am f s immediat	familiar with t	ole for obtaini	ng the inform	ation, I belie	eve that the	i
Name and Official Title (Please type of	or print)	Sig	nature		1			Date Signed	
Dan Johnson, VP Environment and	l Technical S	ervices	5	5				09/07	-12012

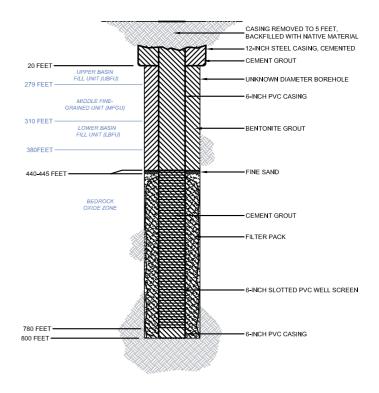
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#### AS-BUILT PW4-1 CASED WELL



#### PROPOSED PLUGGING AND ABANDONMENT PW4-1 CASED WELL





PW4-1 CASED WELL DIAGRAM



FIGURE 1

<b>⊕</b> E	PA		PLU		Washii	ngton, E	al Protectio C 20460	n Agency <b>//ENT PL</b>	.AN						
Name and Address of Facility Florence Copper Project 1575 W Hunt Hwy, Florence Arizona 85132						C	Name and Address of Owner/Operator  Curis Resources (Arizona) Inc 1575 W Hunt Hwy, Florence, Arizona 85132								
N I I						ona Co				grinoritation and the same	Permit Number AZ39600001				
					Surface Location Description  NW 1/4 of NW 1/4 of SE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E										
		-  - -  - -  -	L	Sur	Locate well in two directions from nearest lines of quarter section and drilling unit Surface   Location $1170$ ft. frm (N/S) S Line of quarter section and $1190$ ft. from (E/W) E Line of quarter section.										
w	+		E	E	TYPE OF AUTHORIZATIO Individual Permit Area Permit Rule Number of Wells 1			ION	WELL ACTIVIT  CLASS I  CLASS II  Brine Disposal  Enhanced Recovery  Hydrocarbon Storag			,			
L	s					Lease Name NA			✓ CLASS III Well Number WW3						
	CA	ASING AND TU	BING RECORI					METH	OD OF EMPL		F CEMENT P	LUGS			
14 18 24	1 45-EST. 0 933 8 70-EST. 0 928						HOLE SIZE  UNK The Dump B UNK The Two-Plu UNK Other			iller Method					
	CEMENTING	TO PLUG AND	A BANDON D	ATA:	DI	UG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7			
Size of	CEMENTING TO PLUG AND ABANDON DATA: Size of Hole or Pipe in which Plug Will Be Placed (inche						18	7 200 #3	1200#4	1 200 #3	1200 #0	1200 #/			
Depth to	Bottom of Tul	oing or Drill Pi	pe (ft		93	33	496								
Sacks o	f Cement To Be	Used (each pl	ug)		36	64.4	677.9								
Slurry V	olume To Be P	umped (cu. ft.)			46	7.2	869.1	1							
	ted Top of Plug				49	in the same of the	5								
-	ed Top of Plug ( Vt. (Lb./Gal.)	if tagged ft.)			49		5			_					
	ment or Other f	Material /Class	III)		15 V	.0	15.6 V	1		1					
.,,		ST ALL OPEN I		PERFORATE	- Interested	ALS AND	of the state of th	S WHERE CAS	ING WILL BE	VARIED (if a	myl				
	From	JI ALL OF LIVE	TOLL AND/OR	To	DINIERVA	ALO ANE	MILKVAL	From	III WILL BE	VARIED (II C	To				
933						1			11						
496	The state of the s				temanopyratization 1, lease						-7				
240   5-BLANK 18"			. 18"												
\$13,7	ed Cost to Plug 15	Wells													
at in	certify under the tachments and formation is tru ossibliity of fine	that, based or ie, accurate, a	n my inquiry o	of those indiv I am aware t	amined an iduals imn hat there a	nediatel	miliar with t y responsib	ole for obtaini	ng the inform	ation, I beli	eve that the	ı			
Name ar	nd Official Title	(Please type	or print)		Signatur	re					Date Signed				
Dan Jo	hnson, VP En	vironment an	d Technical S	Services	-	5	-> (				Falsa	1200			

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United States Environmental Protection Agency Washington, DC 20460																
PLUGGING AND ABANDONMENT PLAN																
Name	Name and Address of Facility  Name and Address of Owner/Operator															
	Florence Copper Project 1575 W Hunt Hwy, Florence Arizona 85132							Curis Resources (Arizona) Inc 1575 W Hunt Hwy, Florence, Arizona 85132								
														Permit Number		
	Locate Well and Outline Unit on Arizona												26000001			
Section Plat - 640 Acres					Sui	Surface Location Description			1.11.0							
		N				NE 1/4 of SW 1/4 of NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E										
						Locate well in two directions from nearest lines of quarter section and drilling unit  Surface										
		<u> </u>				Location $785$ ft. frm (N/S) $N$ Line of quarter section and $700$ ft. from (E/W) $E$ Line of quarter section.										
					and			AUTHORIZAT		uarter set	1	WELL ACTIVITY				
W		<del>                                     </del>		E		Individ				CLASS I						
	<u> </u>	<u> </u>	_		v	✓ Area Permit				CLASS II						
	L.		_			Rule				Brine Disposal						
					l N	Number of Wells 1				Enhanced Recovery						
	<u> </u>	<u> </u>	╼┢═╅╼╏	- † -	"	Number of Wells 1				Hydrocarbon Storage						
		<u>i i i</u>	<u>lii</u>	<u> </u>						CLASS III						
			S		Lea	Lease Name NA				Well Number DM-B						
		CA	SING AND TUE	ING RECORD	AFTER PLU	IGGING				METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS		
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LEF	ELEFT IN WELL (FT) HOLE			E	✓ The Balance Method						
5	unknown 0 611				unknown				The Dump Bailer Method							
4 unknown 0 89				89	u				The							
								_	Other							
						<u> </u>						ı	1	1		
			TO PLUG AND				LUG #1		2 P	LUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
		ole or Pipe in v			inche	5		4	4							
		Bottom of Tub				6.		700 6.1	= -							
							3	7.8	= -							
Siurry Volume 10 Be Pumped (cu. π.) Calculated Top of Plug (ft.)						0		611	===							
Measured Top of Plug (if tagged ft.)							nk	unk	===							
Slurry Wt. (Lb./Gal.)						5.6	15.6									
Туре	Type Cement or Other Material (Class III)						r	V								
		LIS	T ALL OPEN H	OLE AND/OR	PERFORATE	D INTERV	'ALS AI	ND INTERVA	LS WH	IERE CAS	ING WILL BE	VARIED (if a	ıny)			
		From			То				Fre	om			То			
UN	UNKOWN															
	Estimated Ocean River Wells															
Estimated Cost to Plug Wells																
\$13,715																
Cortification																
Certification																
I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the																
information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the																
possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)																
Name	e an	d Official Title	(Please type o	r print)		Signate	ire						Date Signed	<u> </u>		
	т 1	Dan Johnson, VP Environment and Technical Services							2 mil for							

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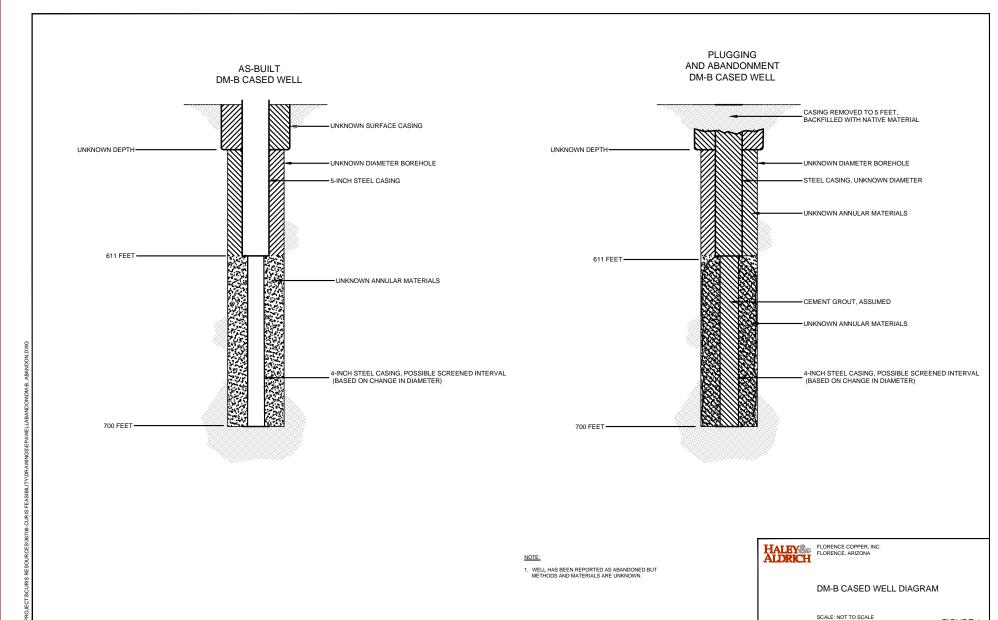


FIGURE 1

OCTOBER 2014

## Exhibit Q-4

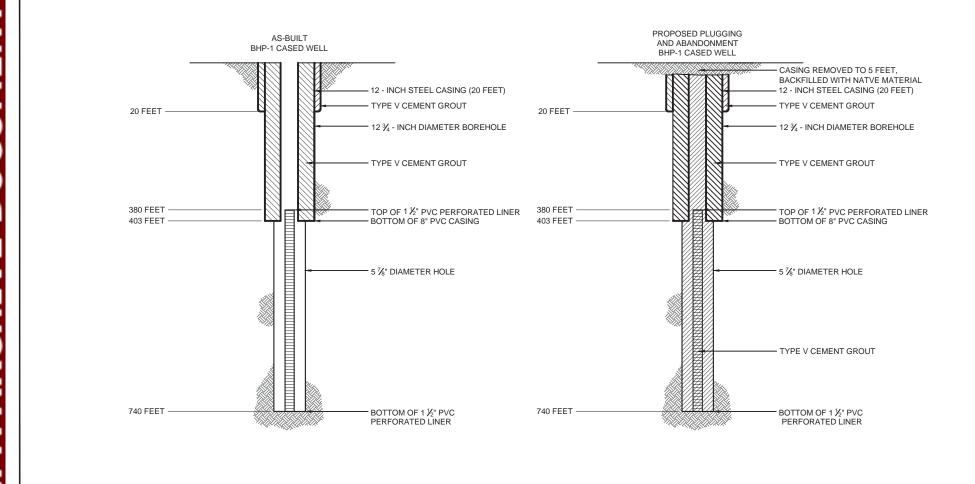
EPA Forms 7520-14, Plugging and Abandonment Plans for Class III Wells

# **BHP WELLS**

O EDA	Ur			ntal Protection	Agency								
<b>⊗EPA</b>	PLUGG			ANDONN	IENT PL	.AN							
Name and Address of Facility		Name and Address of Owner/Operator											
Florence Copper Project 1575 W Hunt Hwy, Florence, AZ	85132		Florence Copper, Inc. 1575 W Hunt Hwy, Florence, AZ 85132										
Locate Well and Outline Unit on	State	State County					Permit Number						
Section Plat - 640 Acres	Arizona	ı		Pinal		96000001							
N			Surface Location Description  NE 1/4 of SW 1/4 of SW 1/4 of SE 1/4 of Section 28 Township 4S Range 9E										
		Locate well in two directions from nearest lines of quarter section and drilling unit											
	!	Surface											
		Location	Location 390 ft. frm (N/S) S Line of quarter section										
<b>┃ ├─┼─├─┼─┠─┼─</b> ╎		and <u>435</u>	and 435 ft. from (E/W) W Line of quarter section.										
	E		TYPE OF	ACTIVITY									
	i l		vidual Per	rmit		CLASS I							
	<del>-                                      </del>		a Permit			CLASS II							
┃ ├─┼─├─┼─┠─┼─┟	-+-	Rul	е				rine Dispos						
		Numbe	r of Wells	1		Enhanced Recovery							
	!					☐ Hydrocarbon Storage  ✓ CLASS III							
s		Lease Na	NA Lease Name			Well Number BHP-1							
CASING AND TUE	BING RECORD AFTI	ER PLUGGING	G		METH	HOD OF EMPLACEMENT OF CEMENT PLUGS							
SIZE WT (LB/FT) TO BE PUT IN	WELL (FT) TO	BE LEFT IN W	LEFT IN WELL (FT) HOLE SIZE			✓ The Balance Method							
12" 20			unknown The Dump E			Bailer Method							
8" 403			12.75 The Two-Plug			Method							
1.5" 360	360			5.25	Ot	her							
CEMENTING TO PLUG AND			PLUG #		PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7				
Size of Hole or Pipe in which Plug Wil		!	5.875	8									
Depth to Bottom of Tubing or Drill Pip			740	403									
Sacks of Cement To Be Used (each plu	ig)		50	110									
Slurry Volume To Be Pumped (cu. ft.) Calculated Top of Plug (ft.)			403	0	1								
Measured Top of Plug (if tagged ft.)			NA	NA NA									
Slurry Wt. (Lb./Gal.)			15.4	15.4									
Type Cement or Other Material (Class	III)		Type V										
LIST ALL OPEN H	OLE AND/OR PERF	ORATED INTE			S WHERE CAS	SING WILL BE	VARIED (if a	anv)					
From	1	То			From		То						
403	740												
Estimated Cost to Plug Wells													
\$8,800													
			Contifi-	otion									
			Certific	ation									
I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the													
information is true, accurate, ar possibliity of fine and imprison	nd complete. I am	aware that th				-			e				
Name and Official Title (Please type of		·	nature				1	Date Signed	1				
Zan comison, vi Environmentara	Dan Johnson, VP Environmental and Technical Services 08/06/2014												

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- 1. Well design details are based on BHP records.
- 2. Each of the BHP test wells includes an unsupported perforated PVC liner that extends from the upper casing zone to the bottom of the bore hole. The liners are perforated and will not be removed prior to abandonment of the BHP test wells. The liners are reported to be 4-inch or 1 ½ -inch diameter, and were installed within an 8-inch diameter borehole with no cement, or other annular materials. The liners are exposed to the formation only from the bottom of the exclusion zone to the total depth of each bore hole. The liners do not extend upward into the LBFU/Oxide contact. In the BHP wells that have 4-inch perforated PVC liners, the tremie pipe will be advanced inside the liner to a point as close to the bottom of the hole as is practicable. In BHP wells that have 1 1/2 inch perforated PVC liner, the tremie will be advanced outside the liner to a point as close to the bottom of the bore hole as is practicable.



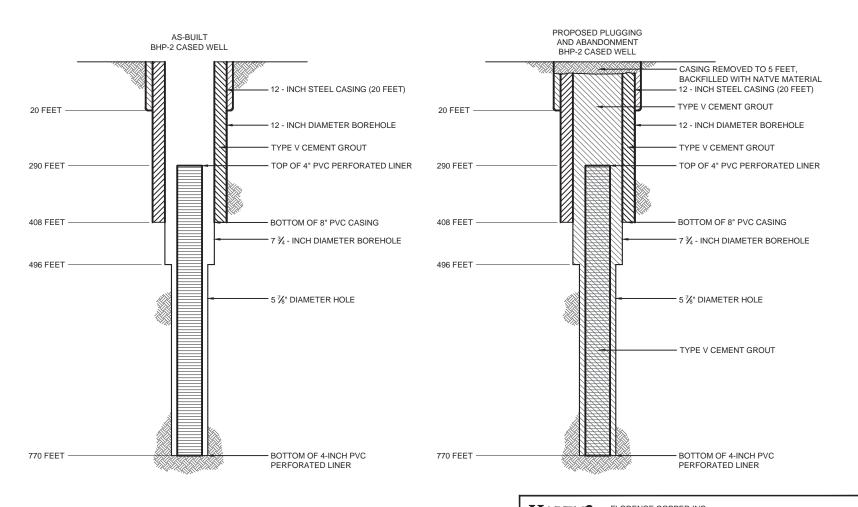
WELL BHP-1 SCHEMATIC DIAGRAM

SCALE: AS SHOWN SEPTEMBER 2014

0	Е	DΛ		United		nvironmer shington,	ntal Protection	on A	gency					
V	PLUGGING AND ABANDONMENT PLAN  ne and Address of Facility orence Copper Project (75 W Hunt Hwy, Florence, AZ 85132  Washington, DC 20460  Name and Address of Owner/Operator  Florence Copper, Inc. 1575 W Hunt Hwy, Florence, AZ 85132													
							Name and A	ddres	ss of Owner	/Operator				
			85132							nce, AZ 85	132			
				:	State	1		Cou	unty		Permit	Number		
		cate Well and Outline Unit on ction Plat - 640 Acres			Arizona			Pin	nal		AZ39	6000001		
	360	Clion Flat - 040 Acres			Surface L	ocation D	escription							
		N	<u> </u>				•	of S	E_1/4 of	Section 28	Township	4S Range	9E	
	_	<u> </u>			Locate we	ell in two d	directions fr	rom r	nearest line	s of quarter	section and	drilling unit		
					Surface									
			_ † _		Location	335 ft. frr	m (N/S) S	Line	e of guarter	section				
	-	<u> </u>					(/w) W Lir							
			! !	F			AUTHORIZA			1	WFII	ACTIVITY		
W			E		Indi	vidual Per				CLAS				
	_	<u> </u>	_		✓ Area					CLAS				
			1		Rule						rine Dispos	a.l		
	$\vdash$	++- <b> </b> -+-	-+-		Kuit	<i>a</i>					•			
		1_L1_L1_l			Number	of Wells	1				nhanced Re	-		
		•									ydrocarbon	Storage		
						NT A				V CLAS				
		S			Lease Nai	me NA				Well Numb	per BHP-2			
	CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS													
SIZ	SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   The Balance Method													
12"	▼ The Balance Method													
8"		408		408			12		The	Two-Plug M	ethod			
4"		480		480			5.875		Oth	_				
		CEMENTING TO PLUG AND	ABANDON DA	TA:		PLUG #1	1 PLUG#	‡2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size	of H	lole or Pipe in which Plug Wi	II Be Placed (i	nche		5.875	7.75		8					
Dept	h to	Bottom of Tubing or Drill Pi	oe (ft			770	496		408					
Sack	s of	Cement To Be Used (each plu	ıg)			40	23		112					
Slurr	y Vo	olume To Be Pumped (cu. ft.)				52	29		142					
Calc	ulate	ed Top of Plug (ft.)				496	408		0					
Meas	sure	d Top of Plug (if tagged ft.)				NA	NA		NA					
Sluri	y W	/t. (Lb./Gal.)				15.4	15.4		15.4					
Type	Cei	ment or Other Material (Class	III)			Type V	Type V	7	Type V					
		LIST ALL OPEN H	OLE AND/OR I	PERFORA	ATED INTE	RVALS AN	ND INTERVA	LS W	VHERE CAS	ING WILL BE	VARIED (if a	iny)		
		From		То				F	From			То		
496	<u> </u>		770											
Estin	nate	ed Cost to Plug Wells												
\$8,	800	)												
					4	Certifica	ation							
					,	Ger till Ca	atiOil							
		ertify under the penalty of lav												
1		tachments and that, based on formation is true, accurate, a								-			9	
1		essibliity of fine and imprison				ore are sig	,vant per		o ioi aubili	y iaise li		oraumy tile	•	
Name	e an	nd Official Title (Please type o	or print)		Sign	nature					Ī	Date Signed	1	
		hnson, VP Environmental a		Samiac		<	-		-(1					
Dar	1 JO	iiiisoii, ve Eiivironmental a	na recimical	Services	2		2	اسد	2 John			08/06/2014	+	

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WELL BHP-2 SCHEMATIC DIAGRAM

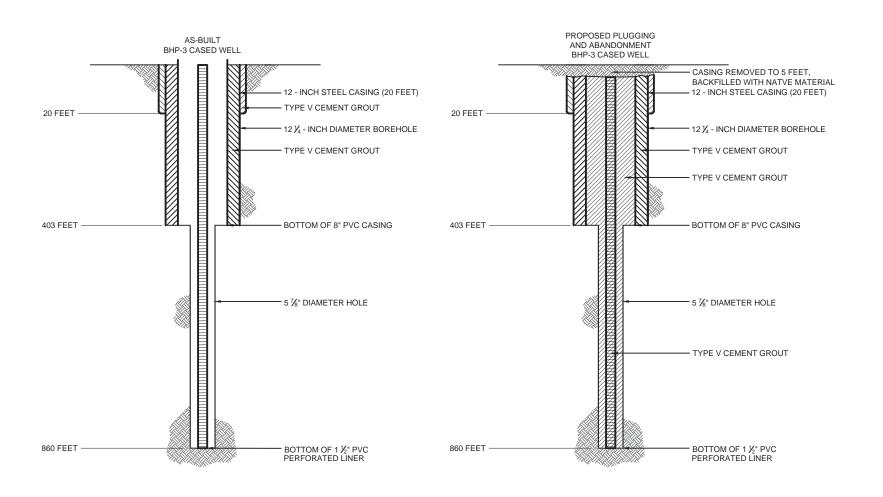
SCALE: AS SHOWN JULY 2014

Ş۱	E <b>PA</b>		PLU		Washir	ngton,	tal Protectio DC 20460		LAN				
Name	and Address of Facili	tv			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				ner/Operator				
Flore	ence Copper Project W Hunt Hwy, Flor		85132				Florence Co	opper, Inc.	orence, AZ 85	5132			
	ocate Well and Outlin				ate rizona			County Pinal			Number 600001		
<u> </u>	Section Plat - 640 Acres	S			ırface Loca	tion De	escription			11207			
	N							s SE 1/4 o	Section 28	Townshin	4S Range	9E	
w =	- <del> </del>		-   -   -   -   -   -   -     E	Su	orface example $\frac{440}{485}$ ft. ft.	ft. frn rom (E/ PE OF /	n (N/S) S /W) W Lin	Line of quar e of quarter		WELL A	drilling unit		
-		_	-		✓ Area Pei	rmit			CLA	SS II			
	╶┽╼┾╼╏	- <del>i</del> - i			Rule					Brine Dispos			
	ii				Number of N	Wells	1			Enhanced Re	•		
		•								lydrocarbon SS III	Storage		
_	S					NA			T CLA				
				Le		1 1/2 1			Well Num	ber BHP-3			
	CASING AND TUBING RECORD AFTER PLUGGING  Lease Name  NA  Well Number  BHP-3  METHOD OF EMPLACEMENT OF CEMENT PLUGS												
SIZE	WT (LB/FT) TO	BE PUT IN	I WELL (FT)	TO BE LEF	FT IN WELL	. (FT)	HOLE SIZI	<b>I</b>	The Balance M	ethod			
12"	20			20			unknown		The Dump Bail	er Method			
8"	40			403			12.25	4 🗆	The Two-Plug I	/lethod			
1.5"	86	50		457			5.875	4 0	Other				
_					<u> </u>				1	1			
0:	CEMENTING TO					LUG #1		PLUG #	3 PLUG #4	PLUG #5	PLUG #6	PLUG #7	
	f Hole or Pipe in whice to Bottom of Tubing			inche	86	875	403						
	of Cement To Be Use		<u> </u>		68		110						
	Volume To Be Pumpe	· ·	<u> </u>		86		141						
Calcul	ated Top of Plug (ft.)				40	)3	0						
Measu	red Top of Plug (if tag	gged ft.)			N.	A	NA						
Slurry	Wt. (Lb./Gal.)				15	5.4	15.4						
Type (	Cement or Other Mate	rial (Class I	II)		Ty	ype V	Type V						
		LL OPEN H	OLE AND/OR		ED INTERV	ALS AN	ID INTERVAL		ASING WILL B	VARIED (if a			
	From		0.60	То				From			То		
403			860			=  -							
$\vdash$						<del>-  -</del>							
H						=#							
\$8,8	ated Cost to Plug Wel	lls											
	I certify under the per attachments and that information is true, a possibliity of fine and and Official Title ( <i>Ple</i>	t, based on ccurate, an d imprisonr	my inquiry of d complete. nent. (Ref. 4	of those indi	xamined ar viduals imr that there	mediate are sig	familiar with ely responsi	ble for obta	ning the infor	nation, I beli	eve that the		
	Johnson, VP Enviro			l Services			2)	ni l			08/06/2014		
					11		-	- /			100,00,201	.	

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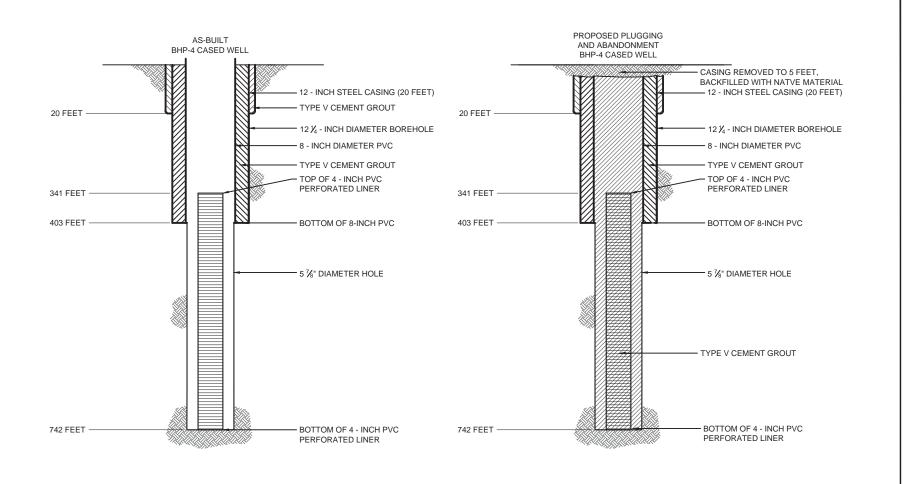
WELL BHP-3 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

		· ·			United				Protection	Agency				
~	PLUGGING AND ABANDONMENT PLAN  The and Address of Facility  Name and Address of Owner/Operator													
Name	and A	Address of Facil	lity					Nam	ne and Addi	ess of Owne	r/Operator			
		Copper Projec Hunt Hwy, Flo		85132					orence Cop 75 W Hun		ence, AZ 85	132		
					18	State			С	ounty		Permit	Number	
		e Well and Outl on Plat - 640 Acre				Arizona	l			inal		AZ39	6000001	
'	000110				8	Surface L	ocation	Desc	ription					
l ,		<u></u>	N I			NE 1/4 c	of SW 1/	4 of	SW 1/4 of	SE 1/4 of	Section 28	Township	4S Range	9E
	ل ل	Ĺ_Ĺ	Lili		<u> </u>			- 1					drilling unit	
				$\neg \neg \neg$			en m two	une	ctions non	i nearest mic	ss of quarter	Section and	dinning dinc	
	-+		-+-+	-+-		Surface	440 54 5	(1	S	ne of quarte	4!			
		L	$\bot \bot \bot \bot \bot$				_			ne of quarter of quarter se				
					-	inu <u>363</u>			THORIZATIO		Ction.	WELL	ACTIVITY	
w					E	Indi	vidual Pe			'IN	CLAS		ACTIVITI	
		- <del>-</del> -	┡╶┼┈┞				Permit		•		CLAS			
		ļ ļ				Rule						rine Dispos	al	
	-+		$\vdash$	-+-					_			nhanced Re		
	Number of Wells 1 Hydrocarbon Storage													
	Hydrocarbon Storage  ✓ CLASS III													
'	S NA													
	Lease Name Well Number													
	CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS													
SIZE	Ε \	WT (LB/FT) T	O BE PUT IN	WELL (FT	) TO BE LI	EFT IN W	ELL (FT)	Н	OLE SIZE	✓ The	e Balance Me	thod		
12"		2	0		20			u	nknown	Th	e Dump Baile	r Method		
8"		4	03		403			1.	2.25	☐ Th	e Two-Plug M	lethod		
4"		4	01		401			5	.875	Otl	ner			
		CEMENTING TO	PLUG AND	ABANDON	DATA:		PLUG :	#1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of Hol	e or Pipe in whi	ich Plug Wil	l Be Placed	d (inche		5.875		8					
		ottom of Tubing		•			742		403					
		ement To Be Us		g)			50		141					
		ıme To Be Pump					64		110					
		Top of Plug (ft.)					339		0					
_		Γορ of Plug (if ta	agged ft.)				NA	_	NA					
		(Lb./Gal.)					15.4	4	15.4					
Туре	Ceme	ent or Other Mate					Type V		Type V					
			ALL OPEN H	OLE AND/O		TED INTE	ERVALS	AND	INTERVALS		SING WILL BE	VARIED (if		
100		From		7.40	То					From			То	
403				742				_						
								-						
-								$\vdash$						
Fetim	ated (	Cost to Plug We	alle											
\$8,8		Cost to Flug We	5113											
\$6,0	300													
1						(	Certific	cati	on					
1	Loor	tify under the pe	analty of law	that I have	o noreonall.					a informati-	n cuhmittad	in thic doo	ment and all	
1		thry under the pe hments and tha												
		mation is true,					ere are s	ignif	ficant penal	ties for subn	nitting false i	nformation,	including the	9
		ibliity of fine an	<u> </u>	•	. 40 CFK 144	1.32)					_			
		Official Title (P					nature				1		Date Signed	1
Dan	John	son, VP Enviro	onmental aı	nd Technic	cal Services				2	ail Joh			08/06/2014	4

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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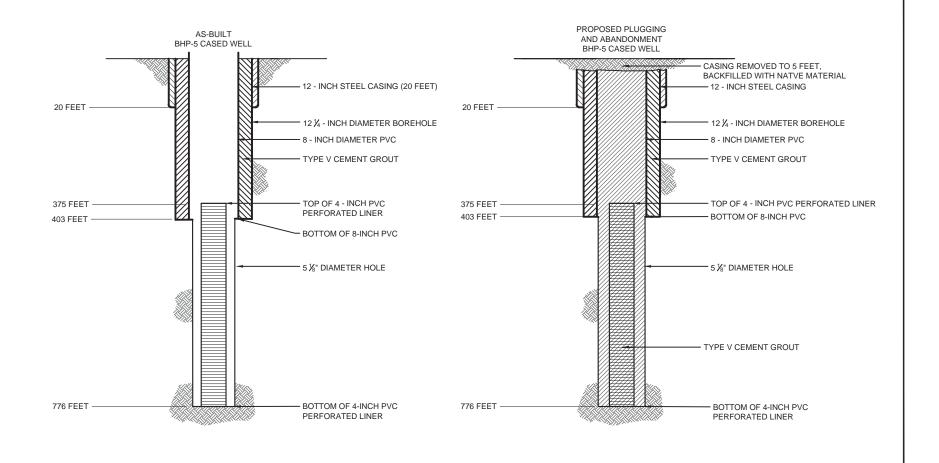
WELL BHP-4 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

Ω		DΛ		Uni	ted States E Wa	invironme ashingtor			Agency					
	PLUGGING AND ABANDONMENT PLAN  ne and Address of Facility  prence Copper Project  Name and Address of Owner/Operator  Florence Copper, Inc.													
Name	e an	d Address of Facility					Name	and Add	ress of Owne	r/Operator				
							Flore	nce Cop	pper, Inc.					
157	75 W	V Hunt Hwy, Florence, AZ	85132				1575	W Hun	t Hwy, Flore	ence, AZ 85	132			
					State	Į.		С	ounty		Permit	Number		
		cate Well and Outline Unit o	1		Arizona	ı		F	Pinal		AZ39	6000001		
	000				Surface I	ocation	Descrip	tion						
ı		N N		_				_	SE 1/4 of	Section 28	Township	4S Range	9E	
ı			i i						n nearest line					
			<u> </u>	_		en in two	uneci	ons non	ii iiearest iiiie	es or quarter	Section and	ariiiiig uiiit		
	┝-	++	<u> </u>	_	Surface	240		a						
									ine of quarter					
			$\Box \Box \Box$	_	and 385				of quarter se	ction.				
w			<del></del>	E				ORIZATIO	ON			ACTIVITY		
						vidual Pe	ermit			CLAS				
		$\top$				a Permit				CLAS				
	<u> </u>	┽━┝╅━┣╅━	<u> </u>	-	Rul	е					rine Dispos			
			i i		Numbe	r of Wells	1			-	nhanced Re	-		
		T									ydrocarbon	Storage		
										V CLAS	SS III			
ı		S			Lease Na	me NA				Well Numl	per BHP-5			
		CASING AND TU	BING RE	CORD AFTE	R PLUGGING	G			METH	OD OF EMPL	ACEMENT C	F CEMENT P	LUGS	
SIZ	E	WT (LB/FT) TO BE PUT	IN WELL	(FT) TO B	E LEFT IN W	/ELL (FT)	НО	LE SIZE	☐ The	e Balance Me	thod			
12"		20		20			unk	nown	T =	e Dump Baile				
8"		403		403			12.2	2.5		e Two-Plug N				
4"		401		401			5.87	75	Oth	_				
		CEMENTING TO PLUG AN	D ABAND	ON DATA:		PLUG	#1 P	LUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size	of H	lole or Pipe in which Plug W	ill Be Pla	aced (inche		5.125	8							
Dept	h to	Bottom of Tubing or Drill P	ipe (ft			776	4	)3						
Sack	s of	Cement To Be Used (each p	lug)			42	1	10						
Slurr	y Vo	olume To Be Pumped (cu. ft.	)			53	14	41						
Calc	ulate	ed Top of Plug (ft.)				403	0							
Meas	ure	d Top of Plug (if tagged ft.)				NA	N	A						
Slurr	y W	t. (Lb./Gal.)				15.4	1:	5.4						
Туре	Cer	ment or Other Material (Class	ill)			Type V	V	ype V						
		LIST ALL OPEN	HOLE AN	ID/OR PERFO	RATED INTI	ERVALS A	AND IN	ERVALS	WHERE CAS	ING WILL BE	VARIED (if	any)		
		From		Т	o				From			То		
403			776											
Estin	nate	d Cost to Plug Wells												
\$8,	800	)												
						Certific	natio:	,						
						Certini	catioi	1						
		ertify under the penalty of la												
I		achments and that, based of formation is true, accurate, a	-	-			-	-		-			9	
1		ssibliity of fine and impriso					J	.		. 5	,			
Name	e an	d Official Title (Please type	or print)		Sia	nature						Date Signed	1	
		hnson, VP Environmental				(	_	-	0			08/06/2014		
Dai	01	mison, vi Environnicillai	100	cai SCI VI			2		1			00/00/2014	†	

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WELL BHP-5 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

Date Signed

08/06/2014

₽E	·DΛ		Unite	d States Enviro Washin		ental Protection, DC 20460	on Ag	jency				
VL		PLU	IGGIN	IG AND A	٩B	ANDONI	ME	NT PL	.AN			
	nd Address of Facility					Name and Ad			er/Operator			
	nce Copper Project W Hunt Hwy, Florence, AZ	85132				Florence Co 1575 W Hu			ence, AZ 85	132		
_	cate Well and Outline Unit on			State Arizona			Cour				Number 6000001	
Se	ction Plat - 640 Acres		-	Surface Local	tion	Description	1 1110	ui		TIES)	0000001	
_	N			NE 1/4 of S		•	of SE	E 1/4 of	Section 28	Township	4S Pange	9E
				Locate well in								
		<u> </u>			ı two	directions in	om n	earest iin	es or quarter	section and	arilling unit	
F	+	-+-		Surface Location 385		(N/C) S		-£	4			
L		_   _		and $\frac{485}{1}$ ft. fr								
						AUTHORIZAT		quarter se	Ton.	WELL	ACTIVITY	
w —		E		Individu					CLAS			
$\vdash$	╶┽╼┞╌┼╼┠╌┼╼┞	$- \dotplus - \mid$		✓ Area Per	mit				CLA	SS II		
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	_   _		Rule					E	Brine Dispos	al	
		il		Number of V	Nells	1			E	nhanced Re	covery	
		- <del> </del>								lydrocarbon	Storage	
				Į,	NT A				✓ CLA			
	S			Lease Name	NA				Well Num			
	CASING AND TUE	BING RECORE	AFTER	PLUGGING				METI	HOD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE	WT (LB/FT) TO BE PUT II	N WELL (FT)	Ļ	LEFT IN WELL	(FT)	HOLE SIZ	_	✓ Th	e Balance Me	thod		
12"	20		20			unknown	4	Th	e Dump Baile	er Method		
7"	415		415			10.625	4		e Two-Plug N	lethod		
1.5"	420		420			5.25		Ot	her			
	CEMENTING TO PLUG AND	ABANDON DA	ATA:	PL	.UG #	#1 PLUG #	2 1	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of I	Hole or Pipe in which Plug Wi	II Be Placed (	inche	5.2	25	7						
Depth to	o Bottom of Tubing or Drill Pip	pe (ft		77	0	410						
Sacks o	f Cement To Be Used (each plu	ng)		42		86						
Slurry V	olume To Be Pumped (cu. ft.)			54		110						
	ted Top of Plug (ft.)			41		0					<u> </u>	
	ed Top of Plug (if tagged ft.)			NA		NA	4					
	Vt. (Lb./Gal.) ement or Other Material (Class	III)		15		15.4						
туре ое	LIST ALL OPEN H		DEDEOD		pe \			HEDE CA	SING WILL BE	VARIED (if	nnu)	
	From	OLE AND/OR	To	ATED INTERVA	ALS A	MID INTERVAL		rom	SING WILL BE	VARIED (II a	To	
410		805										
	ed Cost to Plug Wells											
\$8,800	U											
				Cer	tific	cation						
	certify under the penalty of lav											
	ttachments and that, based on Iformation is true, accurate, ar								-			9
	ossibliity of fine and imprison				5 3	pon						-

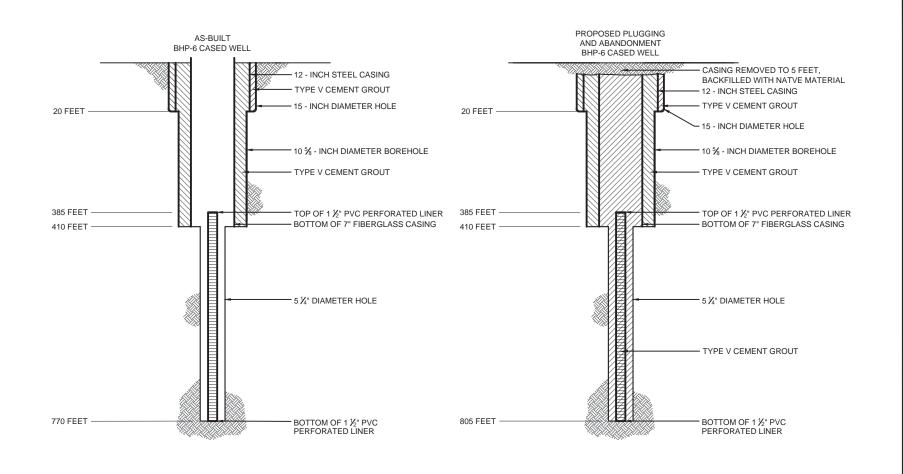
Signature

Name and Official Title (Please type or print)

Dan Johnson, VP Environmental and Technical Services

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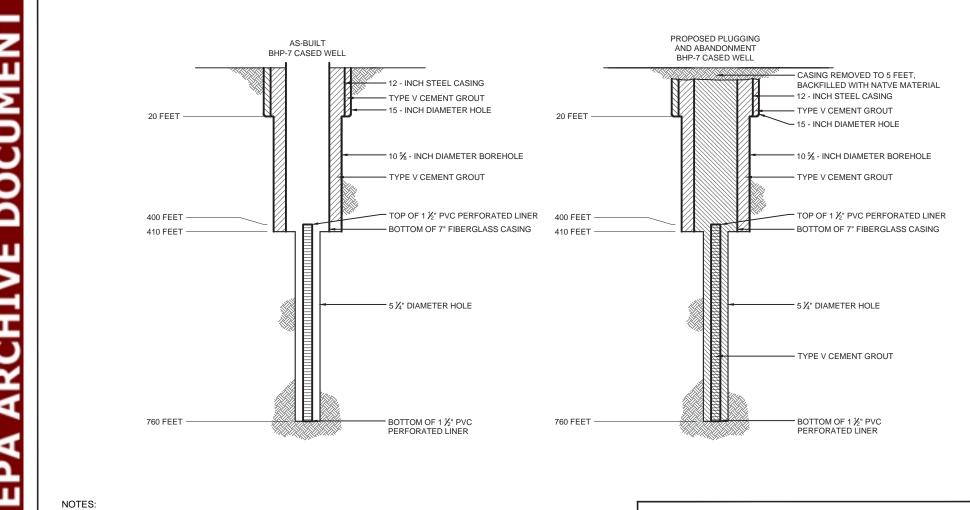
WELL BHP-6 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

0.504	United Sta	ates Environm Washingto			Agency				
<b>\$EPA</b> P	LUGGING	•			ENT PL	AN			
Name and Address of Facility			Nam	ne and Addr	ess of Owne	r/Operator			
Florence Copper Project 1575 W Hunt Hwy, Florence, AZ 85132				orence Cop 75 W Hunt		ence, AZ 85	132		
	Stat	e		C	ounty		Permit	Number	
Locate Well and Outline Unit on Section Plat - 640 Acres		izona			inal			6000001	
	Sur	face Location	Desc	ription					
N	NE	1/4 of <u>SW</u> 1	/4 of	<u>SW</u> 1/4 of	SE 1/4 of	Section 28	Township	4S Range	9E
<b>┃ ├─┼─├─┼─┠─┼─├─┼</b> ─	Loc	ate well in two	o dire	ctions from	nearest line	es of quarter	section and	drilling unit	
<b>┃ ├</b> ╶┼─├─┼─ <b>┠</b> ╶┼─├─┼─	Suri								
		ation $\frac{440}{}$ ft.							
<b>▎</b> ├─┼─├─┼─┠─┼─├─┼─	and	435 ft. from				ction.			
l w l	<b>4</b>	TYPE O	F AUT	THORIZATIO	N		WELL	ACTIVITY	
		Individual P	ermit			CLAS	SS I		
<b>▎</b> ├─┼─├─┼─┠─┼─├─┼─	<b>✓</b>	Area Permit				CLAS	SS II		
<b>┃ ├</b> ┽─┝┽─┣┽─┝┽─		Rule					rine Dispos		
	l Nu	umber of Well	s 1				nhanced Re	-	
				_			ydrocarbon	Storage	
	J					V CLAS			
S	Leas	se Name NA			1	Well Numb	BHP-7		
CASING AND TUBING REC	ORD AFTER PLU	GGING			METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE WT (LB/FT) TO BE PUT IN WELL (F	T) TO BE LEFT	IN WELL (FT)	) H	IOLE SIZE	✓ The	e Balance Me	thod		
12" 20	20		uı	nknown	Th	e Dump Baile	r Method		
7" 410	410		10	0.625	1 =	e Two-Plug M			
1.5" 360	360		5.	.25	Oti	-			
CEMENTING TO PLUG AND ABANDO	N DATA:	PLUG	#1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will Be Plac	ed (inche	5.25		7					
Depth to Bottom of Tubing or Drill Pipe (ft		760		410					
Sacks of Cement To Be Used (each plug)		41		86					
Slurry Volume To Be Pumped (cu. ft.)		53		110					
Calculated Top of Plug (ft.)		410		0					
Measured Top of Plug (if tagged ft.)		NA		NA					
Slurry Wt. (Lb./Gal.)		15.4		15.4					
Type Cement or Other Material (Class III)		Type	V	Type V					
LIST ALL OPEN HOLE AND	OR PERFORATE	DINTERVALS	AND I	INTERVALS	WHERE CAS	ING WILL BE	VARIED (if a	any)	
From	То				From			То	
410 760									
Estimated Cost to Plug Wells									
\$8,800									
		Certifi	cati	on					
	<del>.</del>				- 1		41-1 1		
I certify under the penalty of law that I ha attachments and that, based on my inqui									
information is true, accurate, and comple	ete. I am aware t	hat there are s	_	-		-			е
possibliity of fine and imprisonment. (R	ef. 40 CFR 144.32	2)							
Name and Official Title (Please type or print)		Signature						Date Signed	d
Dan Johnson, VP Environmental and Techn	nical Services		2		2 John			08/06/2014	4

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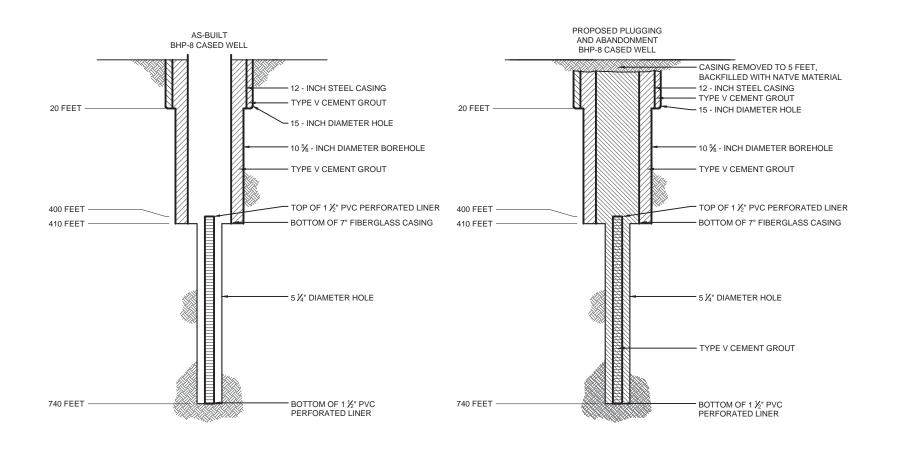
WELL BHP-7 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

		nvironmen shington,	ntal Protection	n Agend	су				
<b>SEPA</b> PLUGGIN		•		MEN	T PL	AN			
Name and Address of Facility		N	Name and Ad	ldress of	f Owner	/Operator			
Florence Copper Project 1575 W Hunt Hwy, Florence, AZ 85132			Florence Co 1575 W Hu			nce, AZ 851	132		
	State			County	,		Permit	Number	
Locate Well and Outline Unit on Section Plat - 640 Acres	Arizona	L		Pinal			AZ39	6000001	
	Surface L	ocation D	escription						
						Section 28			
<b>▋</b> ├─┽─├─┽─ <b>┠</b> ─┽─├─┽─│  │╵	Locate we	ell in two o	directions fr	om near	rest line	s of quarter	section and	drilling unit	
	Surface	207	α.						
			m (N/S) S						
	and 385		/W) W Lin		arter sec	ction.			
w <del>-              </del>	п		AUTHORIZAT	ION				ACTIVITY	
	✓ Area	vidual Per	mit			CLAS			
	Rule							-1	
							rine Disposa nhanced Re		
	Number	r of Wells	1				ydrocarbon	•	
						✓ CLAS		Storage	
S		NA					рир о		
CASING AND TUBING RECORD AFTER P	Lease Nar				METH	Well Numb	ei	E CEMENT D	IIIGS
	EFT IN W		HOLE SIZ	_	_			CEMENT	2000
	EFI IN W	ELL (FI)	15			Balance Me			
				=	=	Dump Baile			
			10.625	-		Two-Plug M	ethod		
1.5" 380 380			5.25	-	Oth	er			
OF MENTING TO BUILD AND ADAMPON DATA						DI 110 #4	51.110.115	B1 110 #0	D. 110 #=
CEMENTING TO PLUG AND ABANDON DATA: Size of Hole or Pipe in which Plug Will Be Placed (inche		PLUG #1	1 PLUG #3	Z PLU	UG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Depth to Bottom of Tubing or Drill Pipe (ft		740	410	-					
Sacks of Cement To Be Used (each plug)		39	86	_					
Slurry Volume To Be Pumped (cu. ft.)		50	110	_					
Calculated Top of Plug (ft.)		410	0	╡					
Measured Top of Plug (if tagged ft.)		NA	NA						
Slurry Wt. (Lb./Gal.)		15.4	15.4						
Type Cement or Other Material (Class III)		Type V	Type V						
LIST ALL OPEN HOLE AND/OR PERFORA	TED INTE			LS WHE	RE CAS	ING WILL BE	VARIED (if a	iny)	•
From To				Fron	n			То	
410 780									
Estimated Cost to Plug Wells									
\$8,800									
	(	Certifica	ation						
Logific under the penalty of law that I have personally				the infe	ormation	a cubmittad i	n this docu	mont and all	
I certify under the penalty of law that I have personally attachments and that, based on my inquiry of those in									
information is true, accurate, and complete. I am awa	re that the					-			e
possibliity of fine and imprisonment. (Ref. 40 CFR 144	4.3∠)								
Name and Official Title (Please type or print)	Sign	nature						Date Signed	
Dan Johnson, VP Environmental and Technical Services	s		2	) - R	John			08/06/2014	4

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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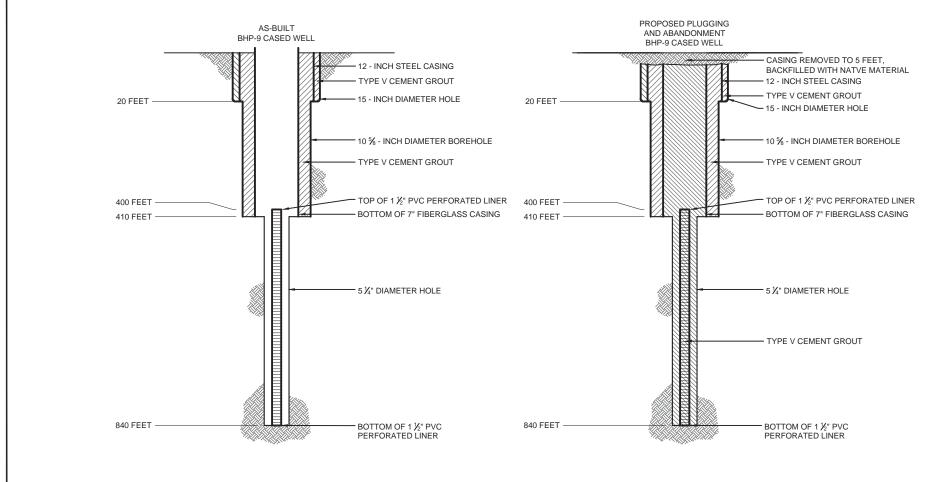
WELL BHP-8 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

Ω.		DΛ			Unite	d States E Wa	invironmo shingtor			n Agency				
~	Washington, DC 20460  PLUGGING AND ABANDONMENT PLAN  The and Address of Facility  The prence Copper Project  Washington, DC 20460  Name and Address of Owner/Operator  Florence Copper, Inc.													
Name	an	d Address of Fa	acility					Nam	e and Add	dress of Own	er/Operator			
Flo	renc	ce Copper Proj	ject					Flo	rence Co	pper, Inc.				
157	5 W	Hunt Hwy, F	Florence, AZ	85132				157	75 W Hui	nt Hwy, Flo	rence, AZ 85	132		
	Loc	ate Well and O	utline Unit on			State				County			Number	
		tion Plat - 640 A				Arizona	l			Pinal		AZ39	6000001	
			N			Surface I						_		
				I I		NE 1/4	of <u>SW</u> 1	/4 of <u>\$</u>	SW 1/4 of	f <u>SE</u> 1/4 of	Section 28	Township	4S_Range	9E
	<u> </u>	<del> </del>	_      -			Locate w	ell in two	dire	ctions fro	m nearest lir	es of quarter	section and	drilling unit	
	L.	' ' ' ' -+	╌┠╌┼╼├			Surface								
		1 1 1				Location	335 ft. f	frm (N	ı/s) <u>S</u> ı	Line of quarte	er section			
	<u> </u>	<u> </u>	╌┠╌┼╌╎	一十一丨		and <u>435</u>	ft. from	(E/W)	W_Line	of quarter s	ection.			
w				E			TYPE O	F AUT	HORIZATI	ON		WELL	ACTIVITY	
Ι"		i i i	l i i	-		Indi	vidual Pe	ermit			CLA	SS I		
	Γ.		╶┠╴┽╶╴╎			✓ Area	a Permit				CLA	SS II		
	<u>.                                    </u>	<u> </u>	- IIi i			Rul	е				E	Brine Dispos	al	
		i i i	l i i			Numbe	r of Wells	1				nhanced Re	-	
		<u> </u>	╶┠╌┤─╎	-		Trumbo.	0		_			lydrocarbor	Storage	
		<u>i i i</u>									_ ✓ CLA	SS III		
ı			S			Lease Na	me NA				Well Num	ber BHP-9		
		CA	SING AND TUE	ING RECOR	AFTER	PLUGGIN	3			MET	HOD OF EMPL	ACEMENT C	F CEMENT P	LUGS
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN W	ELL (FT)	Н	OLE SIZE	<b>□</b>	ne Balance Me	ethod		
12"		unknown	20		20			15	5	□ п	ne Dump Baile	er Method		
7"		unknown	410		410			10	).625		ne Two-Plug N			
1.5"		unknown	440		440			5.	.25		ther			
		CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG	#1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
		ole or Pipe in v			inche		5.25		7					
		Bottom of Tub					840	_	410	-				
-		Cement To Be	` .	(g)			51		86					
_		olume To Be Pu	,				65	_	110					
		d Top of Plug (					410		0					
		d Top of Plug (i t. (Lb./Gal.)	i taggeu it.)				NA 15.4	_	NA 15.4					
	_	nent or Other M	laterial (Class I	II)			Type V		Type V					
.,,,,,	-		T ALL OPEN H	,	PERFOR	ATED INTI				S WHERE CA	SING WILL BE	VARIED (if	anv)	
-		From	T ALL OF LIVE	OLL AND/OR	To	ATED INTI	-INVALO		MILITAL	From	OING WILL BE	· VAINIED (III	To	
410				840										
410				040										
Estin	nate	d Cost to Plug	Wells											
	800													
							Certific	catio	on					
1	Lo	ertify under the	nenalty of law	that I have	nerennall					the informati	on submitted	in this door	ment and all	
		achments and												
	inf	ormation is tru	e, accurate, an	d complete.	I am aw	are that th		_	-		-			<b>)</b>
		ssibliity of fine			OFR 1	44.32)								
Name	an	d Official Title	(Please type o	r print)		Sign	nature			(	)		Date Signed	1
Dan	Joł	nnson, VP Env	vironmental a	nd Technica	l Service	es			2	Daily	d		08/06/2014	1

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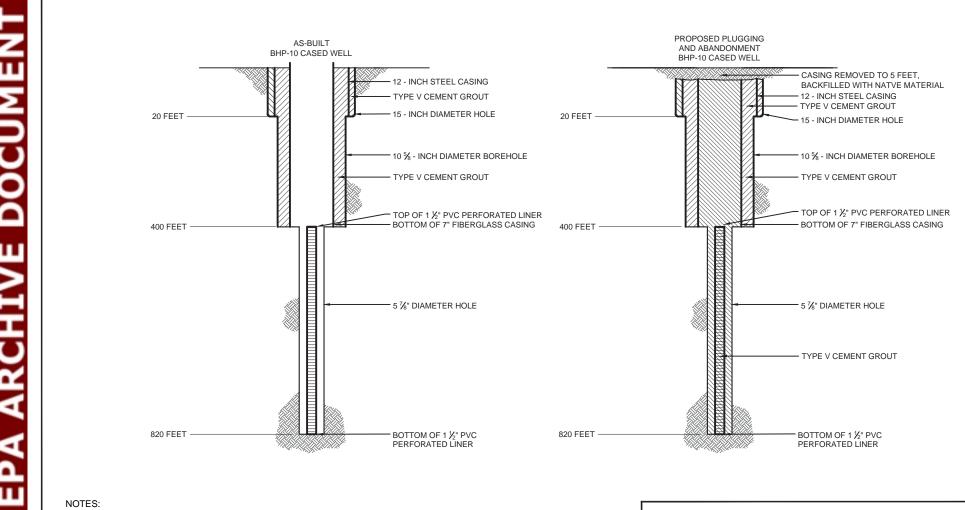
WELL BHP-9 SCHEMATIC DIAGRAM

SCALE: AS SHOWN **JULY 2014** 

ŞΕ	DΛ			Unite		invironme shingtor		Protection 20460	n Agenc	y				
<b>◇</b> E	FA		PLU	IGGIN	IG AN	D AB	AN	DONN	/ENT	「PL	AN			
Name ar	nd Address of F	acility					Nam	ne and Add	dress of	Owner	r/Operator			
Floren	ce Copper Pro	iect					Flo	orence Co	nner. Ir	nc.				
	W Hunt Hwy,		85132								ence, AZ 85	132		
Lo	cate Well and C	Outline Unit on			State				County				Number	
	ction Plat - 640				Arizona	l			Pinal			AZ39	6000001	
	1 1 1	N			Surface L				f SE 1/	/4 of	Section 28	Township	4S_ Range	9E
	<u> </u>	_ i_					_				s of quarter			
					Surface						-		_	
	+		-+-			385 Fr f	frm (N	N/S) S	ine of o	nuartor	section			
I ⊢		_						W Line						
					anu <u>555</u>			THORIZATI		itei set		WELL	ACTIVITY	
w	+ + +	<del>-   -   -  </del>	E		☐ Indi	vidual Pe			ON		CLAS		CHVIII	
	1_L1.	_	_			viduai Fe a Permit	emm				CLAS	-		
					Rul							rine Dispos	-1	
	+	- $  +$ $  -$	-+-		Kui	е						•		
	<b></b>	_	_		Number	r of Wells	1					nhanced Re	-	
		•									✓ CLAS	ydrocarbon	Storage	
		S				NA					V CLAS	BHP-1	n	
						me						oer		
CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUC													LUGS	
SIZE	WT (LB/FT)	TO BE PUT IN	I WELL (FT)	-	LEFT IN W	ELL (FT)	_	IOLE SIZE		✓ The	Balance Me	thod		
12"	unknown	20		20			1:		<u></u>	The	Dump Baile	r Method		
7"	unknown	400		400			10	0.625		The	Two-Plug M	ethod		
1.5"	unknown	420		420			5.	.875		Oth	er			
		TO PLUG AND				PLUG	#1	PLUG #2	PLU	IG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	Hole or Pipe in Bottom of Tub			inche		5.875 820	=	400						
	f Cement To Be					50	_	84	-					
	olume To Be Pu	` '	197			63	_	107						
	ed Top of Plug					400		0						
	ed Top of Plug (					NA		NA						
	Vt. (Lb./Gal.)	ii taggea it.)				15.4		15.4	-					
	ment or Other N	Material (Class I	III)				_	Type V	+					
1,700.00		ST ALL OPEN H		PERFOR	ATED INTE	Type V			S WHER	RE CAS	ING WILL BE	VARIED (if a	inv)	
	From	71.71		То					From			.,	To	
400			820											
100			020											
Estimate	ed Cost to Plug	Wells												
\$8,800														
						Certific	cati	on						
	certify under the tachments and													
in	formation is tru	ie, accurate, an	d complete.	I am awa	are that th		_	-			-			•
po	ossibliity of fine	and imprisoni	ment. (Ref. 4	10 CFR 14	14.32)									
Name ar	nd Official Title	(Please type o	r print)		Sigi	nature			/				Date Signed	
Dan Jo	ohnson, VP En	vironmental a	nd Technica	l Service	es		2		25	1			08/06/2014	1

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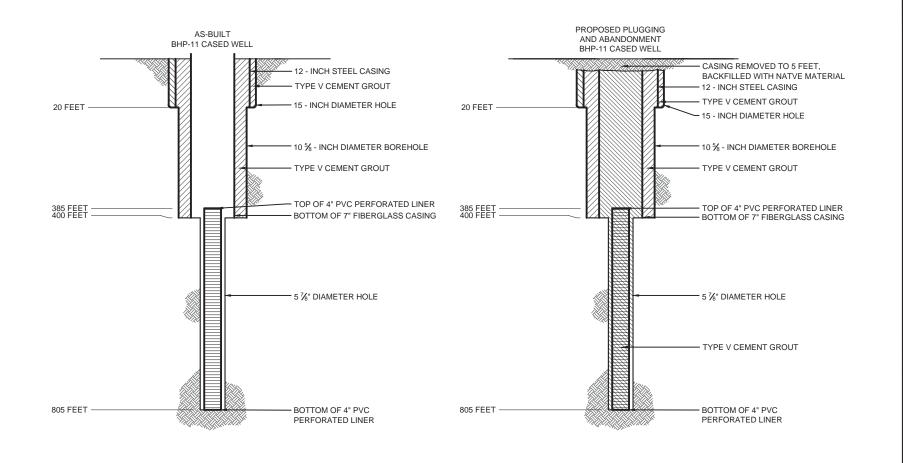
WELL BHP-10 SCHEMATIC DIAGRAM

SCALE: AS SHOWN **JULY 2014** 

Ω.		DΛ			Unite	ed States E Wa	invironme shingtor			n Agency				
	PLUGGING AND ABANDONMENT PLAN  The and Address of Facility  The prence Copper Project  Washington, DC 20460  PLUGGING AND ABANDONMENT PLAN  Name and Address of Owner/Operator  Florence Copper, Inc.													
Name	an	d Address of Fa	acility					Nam	e and Add	dress of Own	er/Operator			
								Flo	rence Co	pper, Inc.				
157	5 V	V Hunt Hwy, I	Florence, AZ	85132				157	75 W Hui	nt Hwy, Flor	rence, AZ 85	132		
	Loc	ate Well and O	utline Unit on			State				County			Number	
		tion Plat - 640 A				Arizona	l			Pinal		AZ39	6000001	
			N			Surface L	ocation	Desci	ription					
		<del>                                     </del>				NE 1/4	of <u>SW</u> 1/	/4 of <u>\$</u>	SW 1/4 of	SE_1/4 of	Section 28	Township	4S Range	9E
ı	_	<u> </u>	╌┠╌┼╌╎			Locate w	ell in two	dire	ctions fro	m nearest lir	es of quarter	section and	drilling unit	
			_	_		Surface								
				l I		Location	490_ft.f	frm (N	ı/s) <u>S</u> ı	ine of quarte	er section			
	H		╼┠╸┽╼╎			and <u>435</u>	ft. from (	(E/W)	W_Line	of quarter s	ection.			
w		1 1 1		<del> </del> _			TYPE O	F AUT	HORIZATI	ON		WELL	ACTIVITY	
l w						Indi	vidual Pe	ermit			CLAS	SS I		
	$\vdash$	<u> </u>	╼┠╸┽╼╎			√ Area	a Permit				CLA	SS II		
		<u> </u>	_	_		Rul	е				E	Brine Dispos	al	
						Numba	r of Wells	. 1			E	inhanced Re	covery	
		<u> </u>	╶┠╴┽╶╴┆			Number	i oi weiis				H	lydrocarbon	Storage	
				<u> </u>							✓ CLA	SS III		
			S			Lease Na	me NA				Well Num	ber BHP-1	1	
CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EM													F CEMENT P	LUGS
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN W	ELL (FT)	Н	OLE SIZE		ne Balance Me	thod		
12"		unknown	20		20			15	5		ne Dump Baile			
7"		unknown	400		400			10	).625		ne Two-Plug N			
4"		unknown	420		420			5.	875		ther			
		CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG	#1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of H	lole or Pipe in v	which Plug Wil	l Be Placed (	inche		5.875		7					
_		Bottom of Tub					805		400					
-		Cement To Be	` .	ıg)			60		84					
		olume To Be Pu	,				76	_	107					
-		ed Top of Plug (	. ,				400		0					
		d Top of Plug (i	f tagged ft.)				NA		NA					
_	_	t. (Lb./Gal.)	leterial (Class	III\			15.4		15.4					
Туре	Cer	ment or Other M	•		25250		Type V		Type V	0.14/1/5/5/5		L	,	
_			T ALL OPEN H	OLE AND/OR		(ATED INTE	ERVALS	AND II	NIERVAL		SING WILL BE	VARIED (IT		
400		From		805	То					From			То	
400				003										
Estin	nate	d Cost to Plug	Wells											
	800													
							04!6!	4! -						
ı							Certific	catio	on					
		ertify under the												
1		tachments and formation is tru						_	-		-			e
		ssibliity of fine						J				,	9 -111	
Name	e an	d Official Title	(Please type o	r print)		Sign	nature						Date Signed	ı
		hnson, VP Env			l Service			5	2)	- 2 -d			08/06/2014	
			omnonur a	I common	. 501 1101			-					00/00/2012	т

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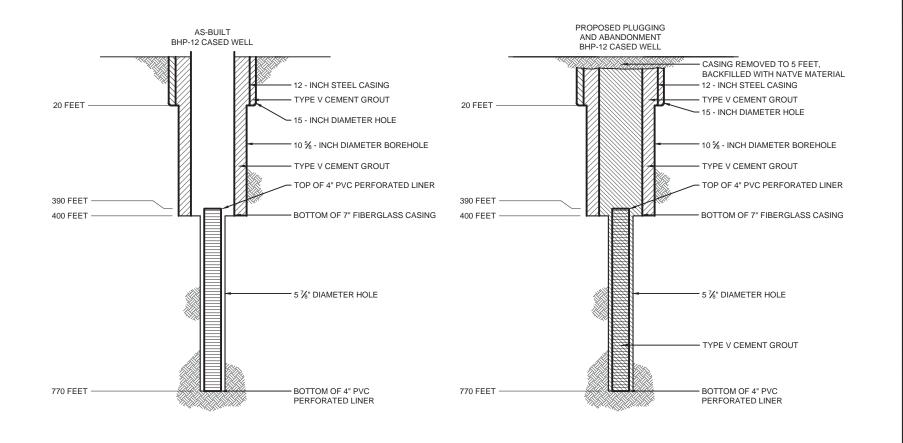
WELL BHP-11 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

≎E	DΛ			United S			ental Protect , DC 20460	tion A	Agency					
<b>V</b> L			PLU	IGGING	3 AND	AB	ANDON	IME	ENT PL	AN				
Name ar	nd Address of Fa	cility					Name and A	Addre	ess of Owne	r/Operator				
	ice Copper Proj						Florence							
1575 V	W Hunt Hwy, F	Florence, AZ	85132				1575 W F	Iunt	Hwy, Flore	ence, AZ 85	132			
				St	tate			Со	unty		Permit	Number		
	cate Well and O ction Plat - 640 A			A	Arizona			Pi	nal		AZ39	5000001		
				Sı	urface Loc	cation	Description							
		N		N	VE 1/4 of	SW 1/	4 of SW 1/4	4 of	SE 1/4 of	Section 28	Township	4S_ Range	9E	
L		_L_i_i										drilling unit		
							anoonono		nour oot mile	o or quartor	occion una	arming anne		
1 -	+	- -+-	-+-		urface	5 4 5	(N/O) S	٦	ne of quarter					
									ne of quarter of quarter se					
				ar			E/W) <u>VY</u> L			ction.	WELL	ACTIVITY		
w	+ + +	+ +	E			tPE Or dual Pe		AHOR	V	CLAS		ACTIVITY		
		_			✓ Area P		ermit			CLAS				
					Rule	emm					srine Dispos	.1		
	+	-	-+-								nhanced Re			
		_			Number o	f Wells	1				lydrocarbon	-		
		•								. ✓ CLAS	-	Storage		
		s				NΔ				] CLA		`		
S Lease Name NA Well Number BHP-12														
	S NA RHP-12													
SIZE	CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS													
12"	unknown	20		20			15			Dump Baile				
7"	unknown	400		400			10.625		=	Two-Plug N				
4"	unknown	380		380			5.875		Oth	-				
	CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG #	#1 PLUG	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size of I	Hole or Pipe in v	vhich Plug Wil	II Be Placed (i	inche	4	5.875	7							
Depth to	Bottom of Tub	ing or Drill Pip	oe (ft			770	400							
Sacks o	f Cement To Be	Used (each plu	ıg)		4	55	84							
Slurry V	olume To Be Pu	mped (cu. ft.)				70	107							
Calculat	ted Top of Plug (	(ft.)				400	0							
Measure	ed Top of Plug (i	f tagged ft.)			]	NA	NA							
Slurry V	Vt. (Lb./Gal.)				1	15.4	15.4							
Type Ce	ement or Other M	laterial (Class	III)			Type V	Type '	V						
	LIS	T ALL OPEN H	OLE AND/OR	PERFORAT	ED INTER	VALS A	AND INTERV	ALS \	WHERE CAS	ING WILL BE	VARIED (if a	iny)		
	From			То					From			То		
400			770											
	ed Cost to Plug	Wells												
\$8,800	U													
					C	ertifi	cation							
	certify under the ttachments and t													
in	formation is true	e, accurate, ar	nd complete.	I am aware	that ther					-			•	
po	ossibliity of fine	and imprison	ment. (Ref. 4	0 CFR 144.	32)									
Name ar	nd Official Title	(Please type o	or print)		Signa	ture				<u> </u>		Date Signed		
Dan Jo	ohnson, VP Env	vironmental a	nd Technical	l Services			5	)	Q de			08/06/2014	1	

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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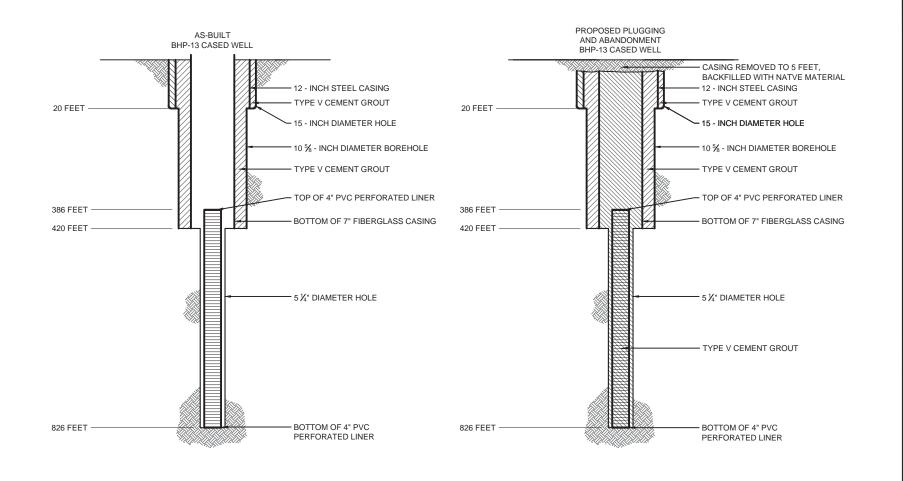
WELL BHP-12 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

Ω		DΛ			Unite		invironm ashingtor		I Protection	n Agend	су				
	PLUGGING AND ABANDONMENT PLAN  The and Address of Facility  The arm of Address of Facility  The prence Copper Project  To W Hunt Hwy, Florence, AZ 85132  Washington, DC 20460  Name and Address of Owner/Operator  Florence Copper, Inc.  1575 W Hunt Hwy, Florence, AZ 85132														
Name	e an	d Address of Fa	cility					Nar	me and Ad	dress of	f Owner	r/Operator			
157	5 V	V Hunt Hwy, F	Florence, AZ	85132				15	575 W Hu	nt Hwy	, Flore	nce, AZ 85	132		
						State				County			Permit	Number	
		ate Well and O tion Plat - 640 A				Arizona	ı			Pinal			AZ39	6000001	
						Surface L	ocation	Des	cription						
		<del> </del>	N .	<u> </u>		SE 1/4 0	of SW 1	/4 of	<u>SW</u> 1/4 o	f SE 1	/4 of	Section 28	Township	4S Range	9E
	L	<u> </u>	_    -			Locate w	ell in two	o dire	ections fro	m near	est line	s of quarter	section and	drilling unit	
		i i i				Surface									
	$\vdash$	<u> </u>		-+-			290 Ft 1	frm (	(N/S) S	line of	auartor	section			
	L	<u> </u>	_    -						/) W Line						
						and 135			JTHORIZATI		iitei set	T	WELL	ACTIVITY	
w		+ + +		E		□ Indi	vidual P			iON .		CLAS		AOTIVITI	
	L		_				a Permit	emm				CLAS			
						Rul								-1	
	-	+	-  - +  -	-+-		L Kui	е						rine Dispos		
		ユーレユ -	_			Numbe	r of Wells	s 1					nhanced Re	-	
			.									✓ CLAS	•	Storage	
							NT A					U CLA			
			S			Lease Na	me NA					Well Num	per BHP-1	3	
	CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS														
SIZ	E	WT (LB/FT)	TO BE PUT IN	I WELL (FT)	TO BE	LEFT IN W	/ELL (FT)	) 1	HOLE SIZE		✓ The	Balance Me	thod		
12"		unknown	20		20			1	15		The	Dump Baile	r Method		
7"		unknown	420		420			1	10.625		The	Two-Plug N	lethod		
4"		unknown	440		440			5	5.25		Oth	er			
		CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG	#1	PLUG #2	PLU	JG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of H	lole or Pipe in v	vhich Plug Wil	l Be Placed (	inche		5.25		7						
Dept	h to	Bottom of Tub	ing or Drill Pip	e (ft			826		420						
Sack	s of	Cement To Be	Used (each plu	g)			48		88						
Slurr	y Vo	olume To Be Pu	mped (cu. ft.)				61		112						
Calcu	ulate	ed Top of Plug (	(ft.)				420		0						
Meas	ure	d Top of Plug (i	f tagged ft.)				NA		NA						
Slurr	y W	t. (Lb./Gal.)					15.4		15.4						
Туре	Cer	ment or Other M	laterial (Class	II)			Type '	V	Type V						
		LIS	T ALL OPEN H	OLE AND/OR	PERFOR	ATED INTE	ERVALS	AND	INTERVAL	S WHEF	RE CAS	ING WILL BE	VARIED (if	any)	
		From			То					From	n			То	
420				826											
		d Cost to Plug	Wells												
\$8,	800	)													
					_		Certifi	Cati	ion		_				
						,	Certiiii	Call	1011						
		ertify under the													
1		achments and to formation is true						_				-			<b>)</b>
1		ssibliity of fine						J	posit			. 3.2.001	,		
Name	e an	d Official Title	(Please type o	r print)		Sia	nature							Date Signed	
		hnson, VP Env		-	l Servic				5	- 0	John				
Dan	JO	mison, vp env	mommentar al	ia reciillea	i DCI VIC	CS					/			08/06/2014	t .

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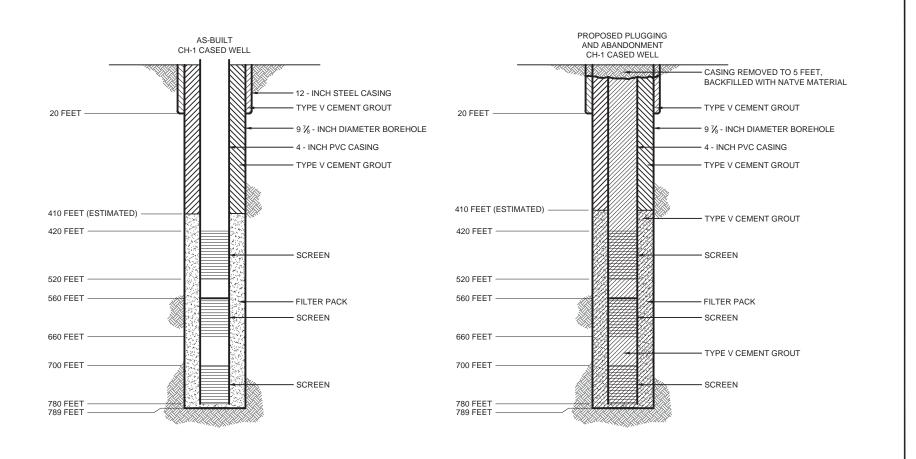
WELL BHP-13 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

Ω	United States Environmental Protection Agency Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN														
		PLUGGING AND ABANDONMENT PLAN  and Address of Facility ence Copper Project  Name and Address of Owner/Operator Florence Copper, Inc.													
Nam	ne and Address of Facility orence Copper Project Florence Copper, Inc. 1575 W Hunt Hwy, Florence, AZ 85132  State County  Permit Number														
				85132							ence, AZ 85	132			
						State			Со	unty		Permit	Number		
ı		cate Well and O ction Plat - 640 A				Arizona	l		Pi	nal		AZ39	5000001		
						Surface L	ocation D	Description	1						
		1 1 1	N 			NE 1/4 o	of <u>SW</u> 1/4	4 of <u>SW</u> 1/4	of S	SE_1/4 of	Section 28	Township	4S Range	9E	
ı	$\vdash$	<u> </u>	╺┠╸┽╼╏	_		Locate w	ell in two	directions f	rom	nearest line	s of quarter	section and	drilling unit		
						Surface									
		<b></b>				Location	400 ft. fr	m (N/S) S	Lin	e of quarter	section				
	H	<u> </u>	-    -	_				E/W) W Li							
				!				AUTHORIZA				WELL	ACTIVITY		
W		1 1 1		E		Indi	vidual Pe			•	CLAS				
	_	<u> </u>	<b>-  -</b> -  -  -	_			a Permit								
						Rule				CLASS II  Brine Disposal					
	H	+	- $+$ $ +$	-+-								inhanced Re			
	L		_			Number	r of Wells	1				lydrocarbon	-		
			•   •								-	Storage			
							NT A								
			S			Lease Na	me NA				Well Numl				
	CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  The Balance Method														
	THE Balance Method														
12"		unknown	20		20			15		The	e Dump Baile	er Method			
4"		unknown	780		780			9.875		The	Two-Plug N	lethod			
										Oth	ner				
			TO PLUG AND				PLUG #	_	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
_		Hole or Pipe in v			inche		410	9.875	_						
_		Cement To Be					28	158	=						
-		olume To Be Pu		19)			36	202							
_		ed Top of Plug					0		=						
		d Top of Plug (i	` '				NA	410							
-		t. (Lb./Gal.)	i tagged it.)				15.4	15.4	=						
_	_	ment or Other N	latorial (Class	III\					7						
Турс	Cei		T ALL OPEN H	•	PERFOR	PATED INTE	Type V			WHERE CAS	ING WILL BE	VARIED (if a	inv)		
		From	T ALL OF LIVE	OLL AND/OR	To		-INVALS A	IND INTERVA		From	ING WILL BE	. VAINIED (II e	To		
420	1			520											
560				660											
700				780											
700															
Fstin	Estimated Cost to Plug Wells														
	\$8,800														
	Certification														
1	Certification														
		ertify under the tachments and													
ĺ		formation is tru									-			•	
1		ssibliity of fine						pe			J	,			
Nam	e an	d Official Title	(Please type o	or print)		Sign	nature		201		).	T	Date Signed	<u> </u>	
Dar	ı Jol	hnson, VP Env	vironmental a	nd Technica	l Servic	es		2	1	. 0			08/06/2014	1	
			O.I.I.OIIIIII U						0	~			00/00/2014	т	

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WELL CH-1 SCHEMATIC DIAGRAM

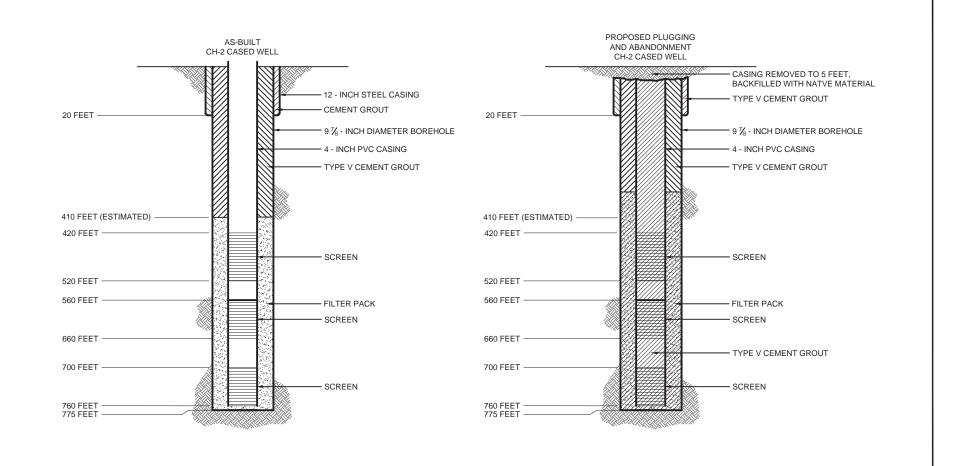
WELL DESIGN DETAILS ARE BASED ON BHP RECORDS.

SCALE: AS SHOWN JULY 2014

	United States Environmental Protection Agency Washington, DC 20460													
Ÿ	PLUGGING AND ABANDONMENT PLAN  and Address of Facility  Name and Address of Owner/Operator													
Name	PLUGGING AND ABANDONMENT PLAN													
Flor	ence Copper Proj	ject	85132			F	lorence Co	pper, Inc.		132				
				Stat	te			County		Permit	Number			
	Locate Well and O Section Plat - 640 A				izona			Pinal			6000001			
-				Sur	face Loc	ation Des	scription			I				
		N 						<u>SE</u> 1/4 of		-				
		- <b> </b>				in two di	rections tro	m nearest line	es of quarter	section and	arilling unit			
	-+		-+-		face	0 5 5	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
								ine of quarter of quarter se						
				anu			UTHORIZATI		Ction.	WELL	ACTIVITY			
w			E		7	dual Perm		ON .	CLAS		CHVIII			
	_	_	_		Area P									
					Rule				CLASS II Brine Disposal					
						. 1			□ E	nhanced Re	covery			
-		╌┞╌┼╌╎		N	umber of	f Wells 1			□ н	ydrocarbon	Storage			
		1 1							✓ CLASS III					
		S		Lea	se Name	NA		Well Number CH-2						
l	CAS	SING AND TUE	SING RECORE	AFTER PLU	GGING			METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS		
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LEFT	T IN WEL	L (FT)	HOLE SIZE	☐ In	✓ The Balance Method					
12"	unknown	20		20			15	☐ Th	The Dump Bailer Method					
4"	unknown	780		780			9.875	☐ Th	☐ The Two-Plug Method					
								Oti	ner					
	CEMENTING	TO PLUG AND	ABANDON DA	ATA:						PLUG #5	PLUG #6	PLUG #7		
	of Hole or Pipe in v			inche	4	1	9.875							
_	to Bottom of Tub				410 775									
	of Cement To Be		ıg)			28	158							
	Volume To Be Pu					36	202							
	lated Top of Plug ( ured Top of Plug (i	,			0	NA	410							
	Wt. (Lb./Gal.)	i taggeu it.)			_	5.4	NA 15.4							
_	Cement or Other M	laterial (Class	III)			Гуре V	Type V							
<u> </u>	LIS	T ALL OPEN H	OLE AND/OR	PERFORATE			-	S WHERE CAS	ING WILL BE	VARIED (if a	inv)			
	From			То				From			To			
420			520											
560			660											
700			760											
	ated Cost to Plug	Wells												
\$8,8	300													
					Ce	ertificat	tion							
	I certify under the	nonalty of lov	v that I have	norsonally av				ha informatio	n submitted	in this doo	ment and all			
	attachments and													
	information is true					e are sign	ificant pena	lties for subn	nitting false i	nformation,	including the	9		
				01 11 144.02	-					-				
	and Official Title			1.0	Signat	ure	_	()			Date Signed			
Dan	Johnson, VP Env	vironmental a	nd Technica	1 Services	prvices 08/06/2014						4			

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WELL CH-2 SCHEMATIC DIAGRAM

NOTE

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SCALE: AS SHOWN JULY 2014

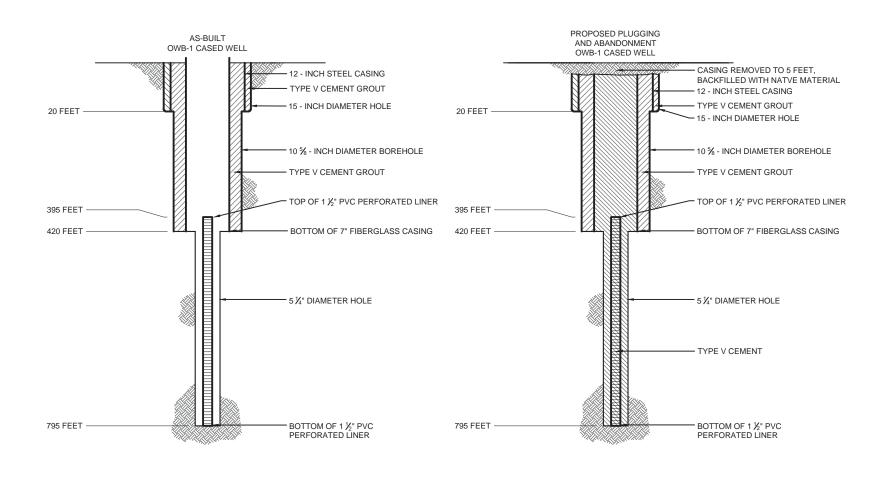
08/06/2014

₽E	PA				Was	hingto	n, D	al Protection DC 20460							
	. / \		PLU	IGGIN	IG AND	) AB	ΑI	NDONN	/EN	T PL	AN				
	nd Address of F							ame and Ad			r/Operator				
	ce Copper Pro W Hunt Hwy, I		85132					Florence Co			ence, AZ 85	132			
1373	v Hunt Hwy, i	i lorence, 712	03132	1			1.				fice, AZ 63				
	cate Well and C				State Arizona				County Pinal	/			Number 6000001		
Sec	ction Plat - 640 A	Acres			Surface Lo	cation	Des		Tillel			11237	0000001		
		N							s SF	1/4 of	Section 28	Township	4S_ Range	9E.	
	<b>†</b> –   † †	- <b> </b>	$-\dagger$			II in two	o di	rections fro	m nea	rest line	es of quarter	section and	drilling unit		
-	++-	$ \vdash$ $+$ $ \mid$	-+-		Surface	35 64 4	·	(N/S) S							
_	<u> </u>	_	_   _					W) $\frac{\mathbf{W}}{\mathbf{V}}$ Line							
								UTHORIZATI		uitei 30	Ction.	WELL	ACTIVITY		
w			E		Indiv	idual P	erm	nit			CLA:	SS I			
_	<u> </u>	╌┠╌┼╌╏			✓ Area	Permit					CLA	SS II			
<u> </u>	+	╼ <del>┣</del> ═┽╼╎	$-\dotplus-$							Brine Dispos	al				
	iii		i		Number	of Wells	1			Enhanced Recovery					
	$T - \Gamma T$	•										lydrocarbor	Storage		
	1 1 1	S	1			NA				✓ CLASS III					
					Lease Nam					Well Number OWB-1					
	CA	SING AND TUE	BING RECORE	AFTER	ER PLUGGING				METHOD OF EMPLACEMENT OF CEMENT PLUGS						
SIZE	WT (LB/FT)	TO BE PUT II	N WELL (FT)	то ве	BE LEFT IN WELL (FT			HOLE SIZE		✓ The Balance Method					
12"	unknown	20		20				15		Th	e Dump Baile	er Method			
7"	unknown	420		420				10.625	4	The	e Two-Plug N	lethod			
1.5"	unknown	400		400	0			5.25	+	Otl	ner				
	CEMENTING	TO PLUG AND	A BANDON D	\ΤΛ·	PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG					PLUG #5	PLUG #6	PLUG #7			
Size of H	Hole or Pipe in				PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 P    5.25   7						F 200 #7				
	Bottom of Tub					795		420							
Sacks of	f Cement To Be	Used (each plu	ug)			44		88							
Slurry V	olume Το Be Ρι	ımped (cu. ft.)				56		112							
	ed Top of Plug					420		0							
	d Top of Plug (i	if tagged ft.)				NA		NA 15.4	4						
	Vt. (Lb./Gal.) ment or Other N	Natorial (Class	III\			15.4	. 7	15.4	╬						
туре се		•		DEDEOD		Type Y		Type V	C WILLE	DE CAS	INC WILL DE	VADIED (if			
	From	T ALL OPEN H	IOLE AND/OR	To	AIEDINIE	KVALS /	ANL	DINIERVAL	Fro		ING WILL BE	VARIED (II	То		
420			795												
.20							Ē								
	ed Cost to Plug	Wells													
\$8,800	)														
at in	certify under the tachments and formation is tru ossibliity of fine	that, based on ie, accurate, ai	n my inquiry on the second in	of those i	y examined ndividuals i are that the	immedi	n fa atel	amiliar with ly responsil	ole for	obtaini	ng the inforn	nation, I beli	eve that the	<b>.</b>	
possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title ( <i>Please type or print</i> )  Signature													Date Signed	ı	

Dan Johnson, VP Environmental and Technical Services

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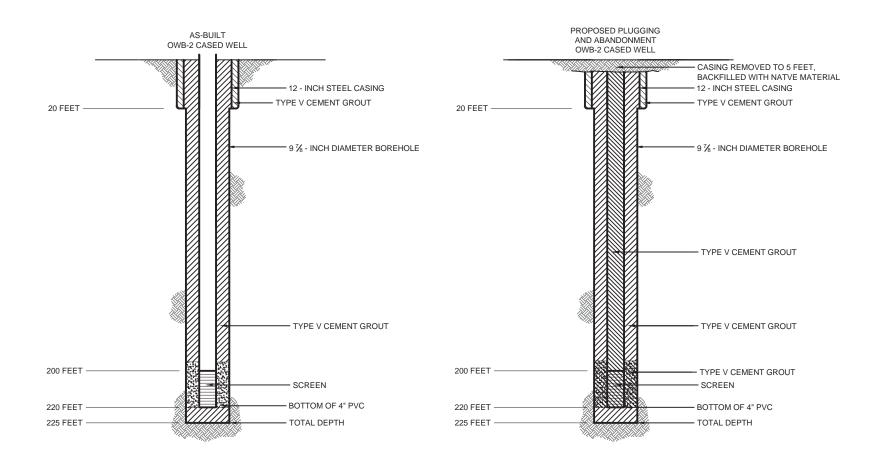
WELL OWB-1 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

Ω EDA	United States Environmental Protection Agency Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN											
WEFA	PLUGGI	NG AN	D AB	ANDONI	MENT P	LAN						
Name and Address of Facility				Name and Ac	dress of Owr	er/Operator						
Florence Copper Project				Florence C	opper. Inc.							
1575 W Hunt Hwy, Florence, AZ	35132					rence, AZ 85	132					
Landa Wall and Outline Half an		State			County		Permit	Number				
Locate Well and Outline Unit on Section Plat - 640 Acres		Arizona	Į.		Pinal		AZ39	6000001				
N				Description	an		7		0.77			
		NE 1/4 c	of <u>SW</u> 1/4	4 of <u>SW</u> 1/4 o	of <u>SE</u> 1/4 of	Section 28	Township	4S Range	9E			
<b>┃ ├─┼─├─┼─┠─┼─</b> ├		Locate w	ell in two	directions fr	om nearest li	nes of quarter	section and	drilling unit				
<b>┃ ├</b> ─┽─├─┽─┠─┽─┟		Surface			1							
	i l				Line of quart							
	- † -	and 385			e of quarter	section.						
w <del>- i i i i i i</del>	E			AUTHORIZAT	TION			ACTIVITY				
			vidual Pe	rmit		CLAS	-					
			a Permit				ASS II					
<b>┃ ├─┼─├─┼─┠</b> ┼─⊦	-+-	Rule	е				rine Dispos					
		Number	r of Wells	1			nhanced Re	-				
						Hydrocarbon Storage						
S			NA			CLASS III						
,		Lease Na				Well Number OWB-2						
CASING AND TUB	SING RECORD AFTER	PLUGGING	3		MET	HOD OF EMPL	ACEMENT O	F CEMENT P	LUGS			
SIZE WT (LB/FT) TO BE PUT IN	WELL (FT) TO BE	BE LEFT IN WELL (FT) HOLE SIZE			Е 🗸 т	✓ The Balance Method						
12" unknown 20	20	15			т	he Dump Baile						
4" unknown 220	220			9.25	т	he Two-Plug M	ethod					
					c	ther						
CEMENTING TO PLUG AND			PLUG #		2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7			
Size of Hole or Pipe in which Plug Wil	•		4	9.875								
Depth to Bottom of Tubing or Drill Pip Sacks of Cement To Be Used (each plu			200	220	_							
Slurry Volume To Be Pumped (cu. ft.)	9)		17	8								
Calculated Top of Plug (ft.)			0	200								
Measured Top of Plug (if tagged ft.)			NA	NA								
Slurry Wt. (Lb./Gal.)			15.4	15.4								
Type Cement or Other Material (Class I	II)		Type V									
LIST ALL OPEN H	OLE AND/OR PERFOR	RATED INTE	_		LS WHERE CA	SING WILL BE	VARIED (if a	iny)				
From	То				From			То				
200	220											
Estimated Cost to Plug Wells												
\$8,800	\$8,800											
			Cortific	ation								
	Certification											
	I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the											
information is true, accurate, an	d complete. I am aw	are that th				-			е			
possibliity of fine and imprison	nent. (Ref. 40 CFR 1	44.32)										
Name and Official Title (Please type o	r print)	Sigr	nature			)		Date Signed	d			
Dan Johnson, VP Environmental and	nd Technical Servic	es		2	. o d	/		08/06/2014	4			

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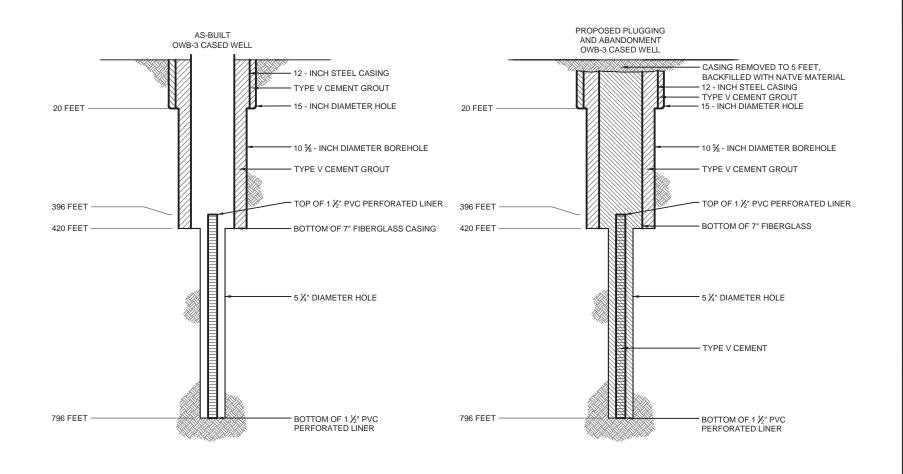
WELL OWB-2 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

<b>≎</b> E	PA		PLU		Wasi	hington,	ntal Protection	on Agency  MENT PI	_AN					
NI					7 (11)			ddress of Own						
Florer	nd Address of Fa nce Copper Pro W Hunt Hwy, I	ject	85132				Florence C			132				
	cate Well and C				tate Arizona			County Pinal			Number 6000001			
<u>Se</u>	ction Plat - 640 A	Acres		S	urface Lo	cation D	escription							
	<u> </u>	N ! !	<u> </u>					of SE 1/4 of	Section 28	Township	4S Range	9E		
	·	_	_	Si	urface ocation 44	10ft. fri	m (N/S) S	om nearest lin	er section	section and	drilling unit			
l L	1 1 1				Т	TYPE OF	AUTHORIZA <sup>*</sup>	ΓΙΟΝ		WELL	LL ACTIVITY			
w			E		Indivi	dual Per	rmit		CLAS	SS I				
		╼┠╾┽╼╏	-		✓ Area F	Permit			CLAS	CLASS II				
	· -+	_	_   _		Rule				Brine Disposal					
			i i		Number o	of Wollo	1		E	nhanced Re	covery			
		╌┠╌┼╌╎			Number	oi weiis į				lydrocarbon	Storage			
	1 1 1		<u> </u>						✓ CLAS	SS III				
		S		Le	ease Nam	e NA			Well Number OWB-3					
	CA	SING AND TU	BING RECORI	D AFTER PL	R PLUGGING			MET	METHOD OF EMPLACEMENT OF CEMENT PLUGS					
SIZE	WT (LB/FT)	TO BE PUT I	N WELL (FT)	TO BE LE	BE LEFT IN WELL (FT) HOLE SIZE			Ε <b>/</b> Τ	✓ The Balance Method					
12"	unknown	20		20	15			□ п	The Dump Bailer Method					
7"	unknown	420		420	10.625			□ п	The Two-Plug Method					
1.5"	unknown	400		400	5.25				ther					
	CEMENTING	TO PLUG AND	ABANDON D	ATA:	PLUG #1 PLUG #2				PLUG #4	PLUG #5	PLUG #6	PLUG #7		
Size of	Hole or Pipe in	which Plug Wi	II Be Placed (	(inche:		5.25	7							
Depth to	o Bottom of Tub	ing or Drill Pi	pe (ft			796	420							
Sacks o	f Cement To Be	Used (each pl	ug)		[-	44	88							
Slurry V	/olume To Be Pι	ımped (cu. ft.)				57	112							
Calcula	ted Top of Plug	(ft.)				420	0							
Measure	ed Top of Plug (	if tagged ft.)				NA	NA							
	Vt. (Lb./Gal.)					15.4	15.4							
Type Ce	ement or Other N	Material (Class	III)		•	Type V	Type V							
	LIS	ST ALL OPEN H	IOLE AND/OR	PERFORAT	ED INTER	RVALS AI	ND INTERVA	LS WHERE CA	SING WILL BE	VARIED (if a	any)			
	From			То				From			То			
420			796											
\$8,80	ed Cost to Plug	Wells												
at in	certify under the ttachments and iformation is tru ossibliity of fine	that, based or ie, accurate, ai	n my inquiry on my inquiry of	of those ind I am aware	examined ividuals in that ther	mmediat	familiar with	ible for obtain	ing the inforn	nation, I beli	eve that the	ð		
Name a	nd Official Title	(Please type of	or print)		Signa	iture					Date Signed	1		
Dan Jo	ohnson, VP En	vironmental a	and Technica	l Services										

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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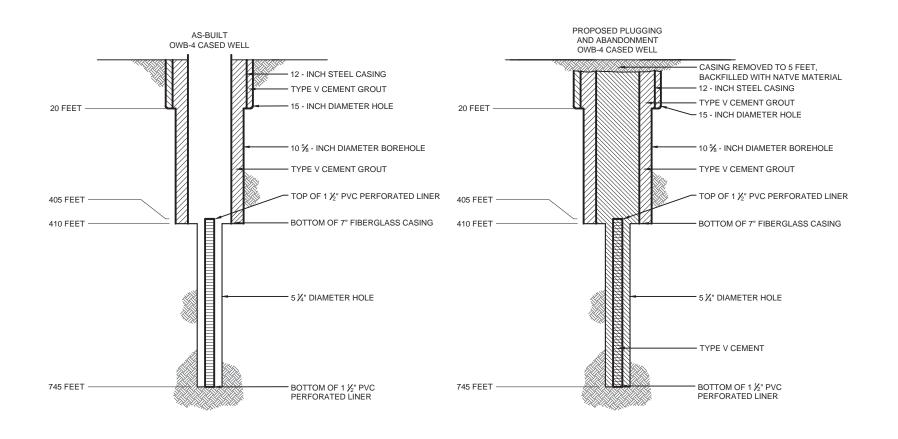
WELL OWB-3 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

<b>₽</b> □	United States Environmental Protection Agency Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN														
<b>₩</b>	FA		PLU	IGGIN	IG AN	D AB	ΑN	DONN	IENT PI	_AN					
Name ar	nd Address of Fa	acility					Nam	e and Add	dress of Own	er/Operator					
Floren	ce Copper Proj	iect					Flo	rence Co	pper, Inc.						
	W Hunt Hwy, F		85132							rence, AZ 85	132				
10	cate Well and O	utline Unit on			State				County			Number			
	ction Plat - 640 A				Arizona	l			Pinal		AZ39	6000001			
		N			Surface L			· .	f SE 1/4 of	Section 28	Township	4S Range	9E		
	<u> </u>	ii	_  _ إ_ إ	-			_			nes of quarter					
			!		Surface										
	<u> </u>		- + -			335 Ft f	frm (N	us) S	Line of quarte	ar section					
I⊢	<u> </u>	_   -   -	_						of quarter s						
					and <u>see</u>			HORIZATI		ection.	WELL	WELL ACTIVITY			
w	+ + +	+++	E		☐ Indi	vidual Pe			ON	CLAS		ACTIVITI			
		_				viduai Fe a Permit	emm								
											ASS II				
l⊢	+	-  - +  -	-+-		Rul	е					Brine Dispos				
	<b></b>	_	_		Number	r of Wells	s 1				nhanced Re	-			
		•								Hydrocarbon Storage					
	1 1 1	S				NA			CLASS III						
					Lease Na					Well Number OWB-4					
		SING AND TUB		1					_	METHOD OF EMPLACEMENT OF CEMENT PLUGS					
SIZE	WT (LB/FT)	TO BE PUT IN	I WELL (FT)	+	BE LEFT IN WELL (FT) HOLE SIZE			<b>✓</b> T	✓ The Balance Method						
12"	unknown	20		20	15			т	☐ The Dump Bailer Method						
7"	unknown	410		410	10.625			ті	The Two-Plug Method						
1.5"	unknown	340		340			5.	.25	o	ther					
	CEMENTING	TO PLUG AND	ABANDON DA	ATA:	PLUG #1			PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
	Hole or Pipe in v			inche		5.25		7							
	Bottom of Tub					745	_	410	-						
	f Cement To Be	` .	ig)			40		86							
	olume To Be Pu					50	_	110	1						
	ed Top of Plug (					410		0	4						
	ed Top of Plug (i	f tagged ft.)				NA	_	NA							
	Vt. (Lb./Gal.)					15.4		15.4							
Type Ce	ment or Other M	•				Type V		Type V							
	From	T ALL OPEN H	OLE AND/OR	PERFOR To	ATED INTE	ERVALS A	AND I	NTERVAL		SING WILL BE	VARIED (if a	To			
410	FIOIII		745	10					From			10			
410			743				$\vdash$								
-															
Fetimate	ed Cost to Plug														
	\$8,800														
ψο,ου	0,000														
	Certification														
	certify under the	nonalty of law	that I have i	noreonall	v ovamino	d and an	n fam	iliar with	the informati	on submitted	in this docu	mont and all			
	tachments and														
	information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibliity of fine and imprisonment. (Ref. 40 CFR 144.32)														
				+U GFR 14											
	nd Official Title					nature				).		Date Signed	1		
Dan Jo	hnson, VP Env	vironmental a	nd Technica	l Service	08/06/2014								4		

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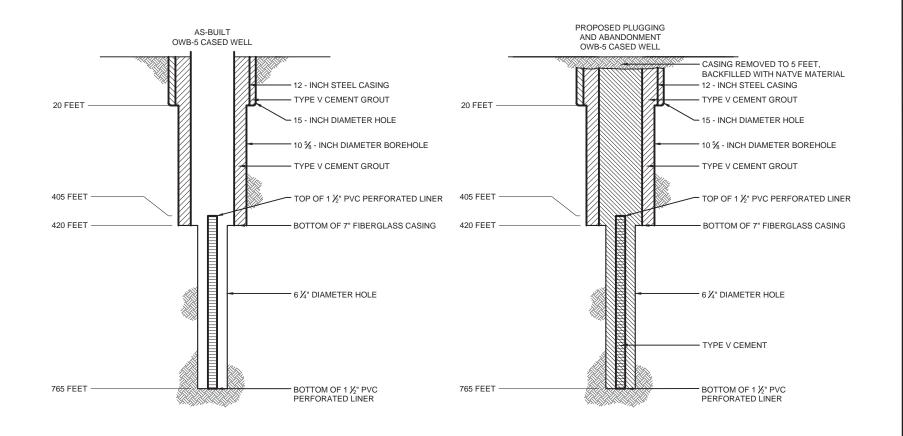
WELL OWB-4 SCHEMATIC DIAGRAM

SCALE: AS SHOWN JULY 2014

	tates Environm	ental Protect	ion Agency									
<b>SEPA</b> PLUGGING	•	•	MENT P	LAN								
Name and Address of Facility		Name and A	ddress of Ow	ner/Operator								
Florence Copper Project 1575 W Hunt Hwy, Florence, AZ 85132			Copper, Inc. unt Hwy, Flo	orence, AZ 85	132							
Sta	ite		County		Permit	Number						
Locate Well and Outline Unit on	rizona		Pinal			6000001						
Su	rface Location	Description										
	E 1/4 of <u>SW</u> 1											
┃ ├─┼─├─┼─┠─┼─├─┼─│  │Lo <sub>'</sub>	cate well in tw	o directions f	rom nearest li	nes of quarter	section and	drilling unit						
Su	rface											
	cation 335 ft.	frm (N/S) S	Line of quar	er section								
	535 ft. from	(E/W) <u>W</u> Li	ne of quarter	section.								
l w	TYPE C	F AUTHORIZA	TION		WELL A	L ACTIVITY						
<b>  "</b>	Individual P	ermit		CLA	SS I							
┃ ├─┼─├─┼─┠─┼─├─┼─ <b>│</b> │	Area Permit			CLA	SS II							
<b>┃ ├</b> ╶┼─├─┼─┠─┼─├─┼─│   │□	Rule			E	Brine Dispos	al						
	lumber of Well	. 1		E	nhanced Re	covery						
▋ ├─┼─├─┼ <b>─┠</b> ─┼─├─┼─│  │ <i>"</i>	idiliber of well	3		H	lydrocarbon	Storage						
				✓ CLASS III								
S Lei	ase Name NA			Well Number OWB-5								
CASING AND TUBING RECORD AFTER PLU	R PLUGGING			METHOD OF EMPLACEMENT OF CEMENT PLUGS								
SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEF	E LEFT IN WELL (FT) HOLE SIZE			✓ The Balance Method								
12" unknown 20 20		15	_ =	The Dump Bailer Method								
7" unknown 420 420	10.625			he Two-Plug N								
1.5" unknown   360     360	6.25			)ther	iotiiou							
			= - `	Zilici								
CEMENTING TO PLUG AND ABANDON DATA:	PLUG	#1 PLUG	#2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7					
Size of Hole or Pipe in which Plug Will Be Placed (inche	6.25	17										
Depth to Bottom of Tubing or Drill Pipe (ft	765 420											
Sacks of Cement To Be Used (each plug)	58	88										
Slurry Volume To Be Pumped (cu. ft.)	74	112										
Calculated Top of Plug (ft.)	420	0										
Measured Top of Plug (if tagged ft.)	NA	NA										
Slurry Wt. (Lb./Gal.)	15.4	15.4										
Type Cement or Other Material (Class III)	Type		1									
LIST ALL OPEN HOLE AND/OR PERFORATE	*	*	*	ASING WILL BE	VARIED (if a	anv)						
From To			From			To						
420    765												
120												
Estimated Cost to Plug Wells		] [										
\$8,800												
40,000												
	Certification											
Leartify under the negative of law that I have negocially a			h tha inform-	ion cubmittod	in this doo	ment and all						
I certify under the penalty of law that I have personally exattachments and that, based on my inquiry of those indiv												
information is true, accurate, and complete. I am aware	that there are			-			e					
possibliity of fine and imprisonment. (Ref. 40 CFR 144.3	2)											
Name and Official Title (Please type or print)	Signature					Date Signed	t					
Dan Johnson, VP Environmental and Technical Services		2	2			08/06/2014	4					

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WELL OWB-5 SCHEMATIC DIAGRAM

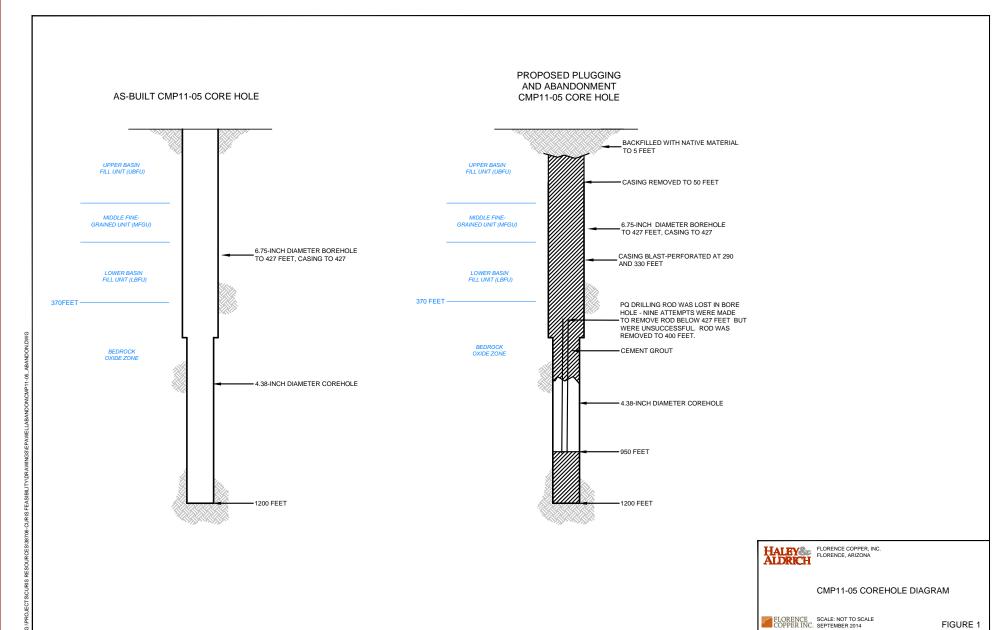
SCALE: AS SHOWN JULY 2014

# **PTF AOR WELLS**

	United States Environmental Protection Agency Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN												
V	EPA	PLUGGIN				IENT PL	AN						
Name	ne and Address of Facility Orence Copper Project 75 W Hunt Hwy, Florence Arizona 85132  Name and Address of Owner/Operator Curis Resources (Arizona) Inc 1575 W Hunt Hwy, Florence, Arizona 85132												
		zona 85132						a 85132					
			State	Į.		County		Permit	Number				
	Locate Well and Outline Unit or Section Plat - 640 Acres	)	Arizona	l		Pinal		AZ39	6000001				
			Surface L	ocation De	escription								
	N		SE 1/4 e	SW 1/4	of NE 1/4 of	SW 1/4 of	Section 28	Township	4S Range	9E			
		┝┼─│  │┖	ocate w	ell in two d	lirections fro	m nearest line	es of quarter	section and	drilling unit				
		!	Surface _										
		¦ ¦    ւ	ocation	1130 ft. frn	n (N/S) <u>N</u> L	ine of quarter	section						
	┝╶┽╼┝╌┽╼┠╌┽╼	├- <u></u>    a	nd <u>970</u>	ft. from (E/	/W) E_Line	of quarter se	ction.						
					AUTHORIZATI			WELL	ACTIVITY				
W		E	Indi	vidual Peri	mit		CLAS	S I					
	<b>├</b>	<u> </u>	✓ Area	Permit			CLAS	S II					
			Rule					rine Dispos	al				
			□ Enhanced 5										
	<u></u>		Number	r of Wells	1			ydrocarbon	-				
							CLAS	-	Storage				
<b>!</b>	S	<u>                                     </u>	NA				] I OLAC		0.5				
	3	L	Lease Name			Well Number CMP11-05							
	CASING AND TU	BING RECORD AFTER P	R PLUGGING			METH	METHOD OF EMPLACEMENT OF CEMENT PLUGS						
9171	DIZE WET (LD/ET). TO BE DUT IN WELL (ET). TO BE LEET IN WELL (ET). LIQUE DIZE												
_	, ,			LLL (I I)		<b>∃</b>	✓ The Balance Method						
6.25	0.70	377			6.75	The Dump Bailer Method							
2.5	unknown 950	550	4.38			The	☐ The Two-Plug Method						
						Oth	ner						
										_			
	CEMENTING TO PLUG ANI	O ABANDON DATA:						PLUG #5	PLUG #6	PLUG #7			
Size	of Hole or Pipe in which Plug W	ill Be Placed (inche		6.25									
Depti	n to Bottom of Tubing or Drill Pi	pe (ft		427									
Sacks	s of Cement To Be Used (each pl	ug)		62									
	y Volume To Be Pumped (cu. ft.)	l .		78.8									
Calcu	llated Top of Plug (ft.)			5									
Meas	ured Top of Plug (if tagged ft.)			5									
Slurr	y Wt. (Lb./Gal.)			15.6									
Type	Cement or Other Material (Class	III)		V									
	LIST ALL OPEN I	HOLE AND/OR PERFORA	TED INTE	ERVALS AN	ID INTERVAL	S WHERE CAS	ING WILL BE	VARIED (if a	ıny)				
	From	То				From			То				
5		50											
290													
330													
427		950											
	nated Cost to Plug Wells	700											
\$13	7,715												
	Certification												
	I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all												
1	attachments and that, based or												
1	information is true, accurate, a	nd complete. I am awar	e that th				-			e			
	possibliity of fine and imprisor	nment. (Ref. 40 CFR 144	1.32)										
Name	and Official Title (Please type	or print)	Sigr	nature					Date Signed	<u> </u>			
Dan	Johnson, VP Environment an	d Technical Services			· ·	) - 0			10/01/2014	1			
1   ""	, , un					and po			10,01,201	•			

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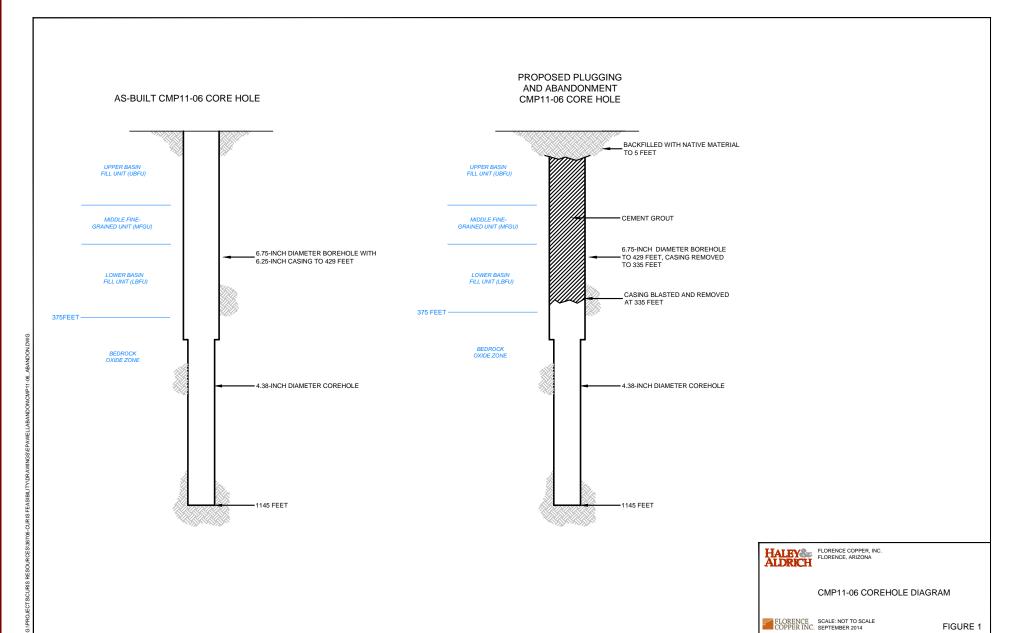
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	United States Environmental Protection Agency Washington, DC 20460															
Ÿ	E	PLUGGING AND ABANDONMENT PLAN  and Address of Facility  Name and Address of Owner/Operator														
Nam	e an	PLUGGING AND ABANDONMENT PLAN														
				ona 85132								a 85132				
					Sta	te			Co	unty		Permit	Number			
		ate Well and O tion Plat - 640 A			Ar	rizona			Piı	nal		AZ39	6000001			
					Sur	rface Lo	ocation D	escription								
		<del>                                     </del>	N 								Section 28					
		T- -T-	_	<u> </u>			ii iii two t	uirections i	TOIII	nearest inte	s of quarter	Section and	ariiiiig uiiit			
	-	+		-+-		rface	058 84 8	(N/O) N	٦	e of quarter	4!					
	<u>L</u>									f quarter se						
					and			AUTHORIZA			T	WELL	WELL ACTIVITY			
W		<u> </u>		E		_	idual Per			•	☐ CLAS					
	<b>-</b>	<u> </u>	- <b> -</b> -	_		✓ Area Permit CLAS										
		•				Rule				Brine Disposal						
				_ † _				1				nhanced Re				
	<u></u>	<u> </u>	_	_	N	umber	of Wells	1		Hydrocarbon Storage						
										CLASS III						
			S		Loa	ise Nan	NA			CMP11 06						
		CA	SING AND TUE	SING RECORE					METHOD OF EMPLACEMENT OF CEMENT PLUGS							
SIZ	'F	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LEF	T IN WE	FII (FT)	HOLE SIZ	7F	_						
6.25		unknown	429	• • • • • • • • • • • • • • • • • • •	29		-EE (I I)	6.75		✓ The Balance Method						
0.2.	<i>y</i>	unknown	42)		2)			0.73		☐ The Dump Bailer Method ☐ The Two-Plug Method						
	=									_	letnoa					
										Oth	ier					
		CEMENTING	TO PLUG AND	ARANDON DA	\TA·	PLUG #1 PLUG #2 PLU					PLUG #4	PLUG #5	PLUG #6	PLUG #7		
Size	of H	lole or Pipe in v						1 1 1 1 1 1 1	72	F E00 #3	7 LOG #4	F E 0 0 # 3	F E 0 0 #0	F E G #7		
		Bottom of Tub				6.75										
_		Cement To Be					60		=							
Sluri	ry Vo	olume To Be Pu	imped (cu. ft.)				76									
Calc	ulate	ed Top of Plug (	(ft.)				33									
Meas	sure	d Top of Plug (i	f tagged ft.)				5									
Slur	ry W	t. (Lb./Gal.)					15.6									
Туре	Cer	ment or Other M	laterial (Class	III)			V									
		LIS	T ALL OPEN H	OLE AND/OR	PERFORATE	D INTE	RVALS A	ND INTERVA	ALS V	WHERE CAS	ING WILL BE	VARIED (if a	iny)			
		From			То					From			То			
5				400												
429	)			1145												
		d Cost to Plug	Wells													
\$13	\$13,715															
							Certific	ation								
Ī	I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all															
1		ertify under the achments and														
1	inf	ormation is tru	e, accurate, ar	nd complete.	I am aware t	that the								9		
1	ро	ssibliity of fine	and imprison	ment. (Ref. 4	0 CFR 144.32	2)										
Nam	e an	d Official Title	(Please type of	or print)		Sign	ature						Date Signed	i		
		hnson VP Env	vironment and	d Technical S	Services						1					

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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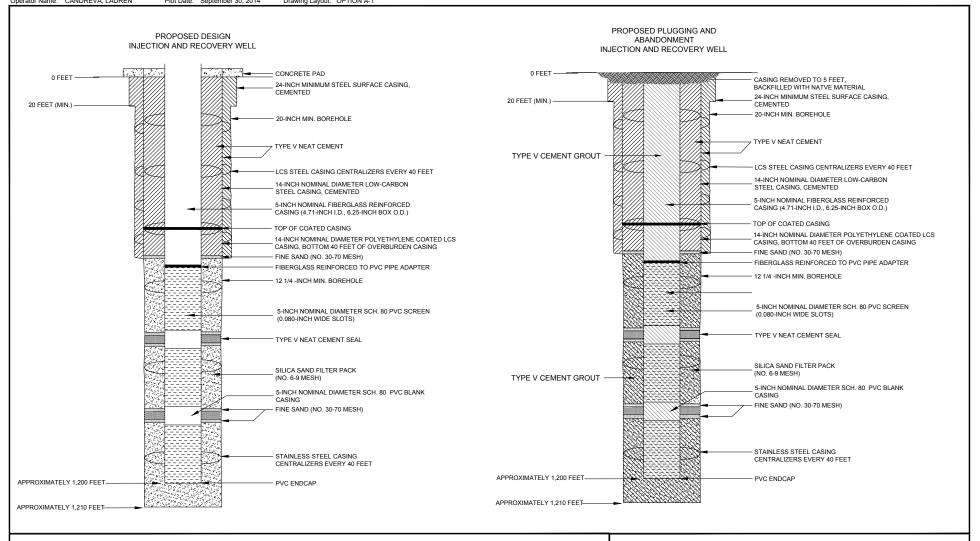
Ω	United States Environmental Protection Agency Washington, DC 20460 PLUGGING AND ABANDONMENT PLAN															
	PLUGGING AND ABANDONMENT PLAN  e and Address of Facility  prence Copper Project  Name and Address of Owner/Operator  Florence Copper, Inc.															
Name	Name and Address of Owner/Operator  Orence Copper Project  Or5 W Hunt Hwy, Florence, AZ 85132  Name and Address of Owner/Operator  Florence Copper, Inc.  1575 W Hunt Hwy, Florence, AZ 85132															
								Flor	rence Co	opper,	Inc.					
157	5 W	V Hunt Hwy,	Florence, AZ	85132				157:	5 W Hu	nt Hw	y, Flore	nce, AZ 85	132			
	Loc	ate Well and	Outline Unit or			State				County				Number		
		tion Plat - 640				Arizona	l			Pinal			AZ39	6000001		
			N			Surface L	ocation	Descr	iption							
						SW 1/4	of <u>SW</u> 1	/4 of <u>1</u>	<u>VE</u> 1/4 o	f SW	1/4 of	Section 28	Township	4S Range	9E	
	_	<u> </u>	<b></b>	_		Locate w	ell in two	direc	tions fro	m nea	arest line	s of quarter	section and	drilling unit		
						Surface										
		<b>+-</b>				Location	1010 ft. f	rm (N/	(s) N I	Line of	f quarter	section				
	<u> </u>	<u> </u>		_		and 1040										
				l i				_	HORIZATI				WELL	ACTIVITY		
W				E		Indi	vidual Pe	ermit				CLAS	SS I			
	_	<u> </u>	<b></b>	_ + _		✓ Area	a Permit					CLA	SS II			
		•   				Rul	е					E	rine Dispos	al		
		$\top$						1	_			□ E	nhanced Re	covery		
	_	<u> </u>	- $+$ $+$ $-$	_		Number	r of Wells	S <u>                                    </u>				□ F	lydrocarbon	Storage		
				l I								CLA:	SS III	_		
			S			Lease Na	me NA				Well Number I-01					
		C	ASING AND TU	BING RECOR	D AFTER	PLUGGING	3				METHOD OF EMPLACEMENT OF CEMENT PLUGS					
SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  The Balance Method																
24"		94.62	20		20	` '				The Dump Bailer Method						
14"		45.68	490		490					The Two-Plug Method						
5"		5.61	510		510	14"			i				I be groute	d usina		
5"		3	690		690				ī	•			nent metho			
	'	CEMENTIN	IG TO PLUG ANI	ABANDON D	ATA:		PLUG	#1	PLUG #2	. PL	LUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Size	of H	lole or Pipe in	which Plug W	II Be Placed	(inche		5									
Dept	h to	Bottom of Tu	ıbing or Drill Pi	pe (ft			1200									
Sack	s of	Cement To B	e Used (each pl	ug)			128									
Slurr	y Vo	olume To Be P	Pumped (cu. ft.)				163									
Calcu	ulate	ed Top of Plug	g (ft.)				0									
Meas	ure	d Top of Plug	(if tagged ft.)				NA									
		t. (Lb./Gal.)					15.4									
Type	Cer	ment or Other	Material (Class	III)			V									
		LI	IST ALL OPEN I	IOLE AND/OR	PERFOR	RATED INTE	ERVALS A	AND IN	NTERVAL	S WHE	ERE CAS	ING WILL BE	VARIED (if	any)		
		From			То					Fro	m			То		
520				720												
760				960												
100	0			1200												
		d Cost to Plu	_													
\$12	\$12,500 - abandonment costs															
							Certifi	catio	on							
I	I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the															
1	inf	ormation is tr	rue, accurate, a	nd complete.	I am aw	are that th		-	-			-			e	
1	ро	ssibliity of fin	ne and imprisor	ment. (Ref.	40 CFR 1	44.32)										
Name	e an	d Official Title	(Please type	or print)		Sigi	nature							Date Signed	ı	
Dan	Jol	hnson, VP Eı	nvironmental a	and Technica	al Servic	es		•	2	- 0				10/01/2014	4	

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Drawing Name: G:PROJECTS\CURIS RESOURCES\38706-CURIS FEASIBILITY\DRAWINGS\JULY 2014 UIC APP\PTF PLUGGING\38706-300-000-INJECTION\_RECOVERY WELL\_3SCREENS.DWG

Operator Name: CANDREVA, LAUREN Plot Date: September 30, 2014 Drawing Layout: OPTION A-1





TYPICAL PROPOSED INJECTION AND RECOVERY WELL ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

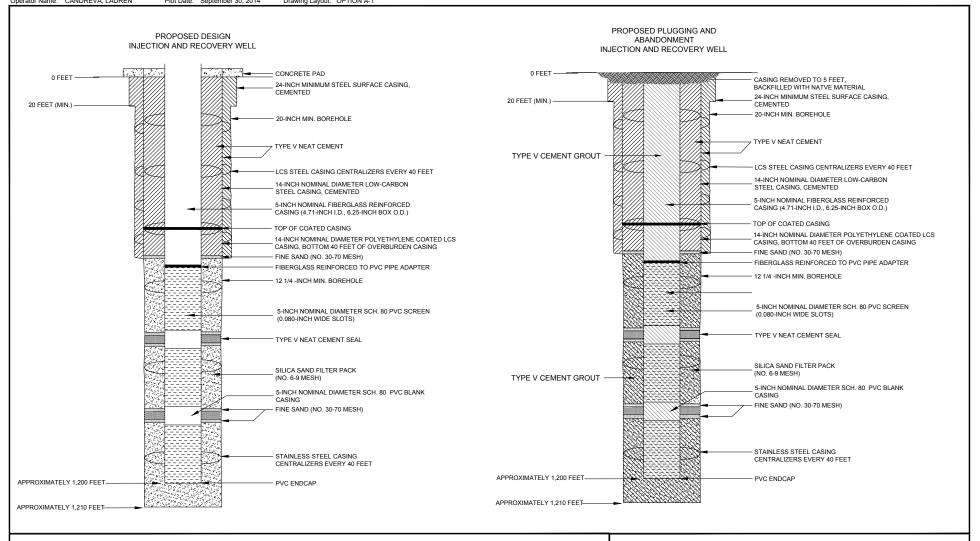
0 ED4	Unite		nvironmen	tal Protection	Agency					
<b>⊗EPA</b>	PLUGGI		• /		ENT PL	AN				
Name and Address of Facility			N	lame and Addr	ess of Owne	r/Operator				
Florence Copper Project 1575 W Hunt Hwy, Florence, AZ	85132			Florence Cop 1575 W Hunt		ence, AZ 85	132			
Locate Well and Outline Unit on		State			ounty			Number		
Section Plat - 640 Acres		Arizona			inal		AZ39	6000001		
N I I I			ocation De	escription of $\overline{ ext{NE}}$ 1/4 of	SW 1/4 of	Section 28	Township	4S Range	9E	
	- <del> </del> -   - <del> </del> -   - <del> </del> -	Surface Location	1080 ft. frm	lirections from $(N/S)$ $N$ Li $_{VW}$ $E$ Line $AUTHORIZATIO$	ne of quarter of quarter se	section		drilling unit		
w <del>             </del>	E	│	i ۲PE OF <i>F</i> vidual Perr		N	CLAS		ACTIVITY		
<b>┃ ├</b> ─┴─├─┴─ <b>┟</b> ─┤─┆			viduai Peri a Permit	IIII		CLAS				
<b> </b>		Rule				Brine Disposal				
			II	1	Enhanced Recovery					
<b>┃ ├─┽─├─┽─┠─┽─</b> ╎		Number	r of Wells	1		Hydrocarbon Storage				
						CLAS	S III			
S		Lease Na	me NA		Well Number I-02					
CASING AND TUE	BING RECORD AFTER				METHOD OF EMPLACEMENT OF CEMENT PLUGS					
SIZE WT (LB/FT) TO BE PUT IN		LEFT IN W	ELL (FT)	HOLE SIZE	The Balance Method					
24" 94.62 20	20	28"			The Dump Bailer Method					
14" 45.68 490	490	20"			The Two-Plug Method  Other - 20" bore hole will be grouted using to					
5" 5.61 510 5" 3 690	510	14"			Otl			-	d using the	
	690	PLUG #1 PLUG #2					olacement	Î		
CEMENTING TO PLUG AND Size of Hole or Pipe in which Plug Wil			PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7	
Depth to Bottom of Tubing or Drill Pig			1200							
Sacks of Cement To Be Used (each plu			128							
Slurry Volume To Be Pumped (cu. ft.)	<u>.,                                     </u>		163							
Calculated Top of Plug (ft.)			0							
Measured Top of Plug (if tagged ft.)			NA							
Slurry Wt. (Lb./Gal.)			15.4							
Type Cement or Other Material (Class	III)		V							
LIST ALL OPEN H	OLE AND/OR PERFOR	RATED INTE	ERVALS AN	ID INTERVALS	WHERE CAS	ING WILL BE	VARIED (if a	iny)		
From	То				From			То		
520	720									
760	960									
1000	1200									
Estimated Cost to Plug Wells										
\$12,500 - abandonment costs										
I certify under the penalty of lav attachments and that, based on information is true, accurate, ar possibliity of fine and imprison	my inquiry of those ind complete. I am aw ment. (Ref. 40 CFR 1	ly examine individuals rare that th	immediate ere are sig	amiliar with th	e for obtaini	ng the inform	ation, I beli	eve that the including the		
Name and Official Title (Please type of			gnature Date Signed							
Dan Johnson, VP Environmental a	nd Technical Servic	es		10/01/2014						

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Operator Name: CANDREVA, LAUREN Plot Date: September 30, 2014 Drawing Layout: OPTION A-1





TYPICAL PROPOSED INJECTION AND RECOVERY WELL ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

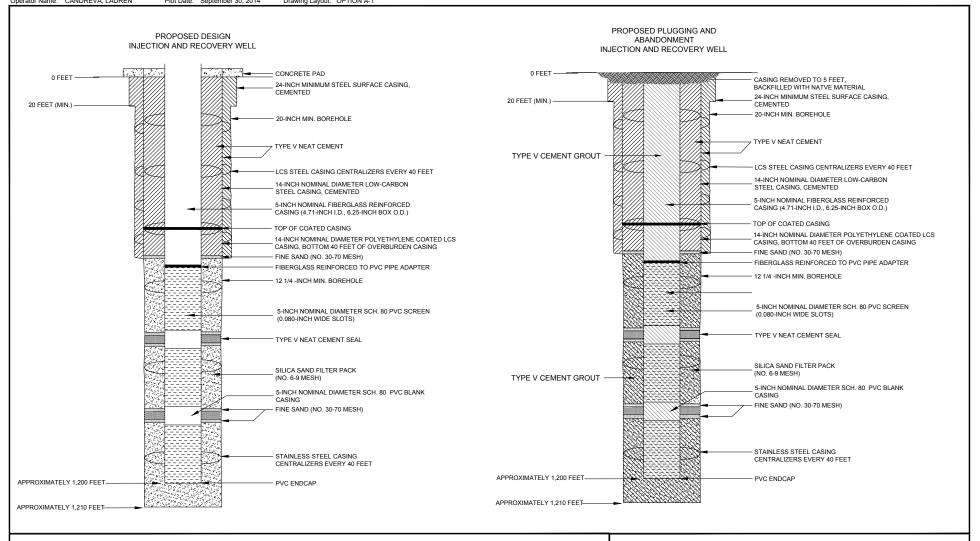
Ω.	EPA				United S			ntal Protecti DC 20460	on A	gency				
V	CFA			PLU	JGGING	AND	AB/	ANDON	ME	NT PL	AN			
Name	and Addr	ess of F	acility					Name and A	ddres	ss of Owner	r/Operator			
Flor	rence Cop	per Pro	ject					Florence C	Coppe	er, Inc.				
			Florence, AZ	85132							ence, AZ 85	132		
	Locato W	dl and (	Outline Unit o		Sta					ınty			Number	
	Section Pl			•	A	rizona			Pin	nal		AZ39	5000001	
			N		Su	rface Loc	ation D	escription						
		I I	Ť:		SV	W 1/4 of	SW 1/4	of <u>NE</u> 1/4	of S	<u>W</u> 1/4 of	Section 28	Township	4S Range	9E
	$\vdash$ $\dashv$ $-$	누구.		<u>├</u>	Lo	cate well	in two	directions fi	rom r	nearest line	s of quarter	section and	drilling unit	
					Su	rface								
		$\Box$			Lo	cation 11	50 ft. fr	m (N/S) N	Line	e of quarter	section			
	$\vdash$ $+$ $-$	누구.		<u> -                                    </u>				E/W) E Liı						
	ļ							AUTHORIZA				WELL	ACTIVITY	
W				E	lΓ		ual Per				CLAS			
	$\vdash$ $\downarrow$ $\vdash$	ĻД.	_	<u>                                     </u>		Area P					CLAS			
		١.١				Rule	GIIIII					rine Dispos	a.l	
	$\vdash$ $+$ $-$	$\vdash$		H+-	L	Kule						nhanced Re		
	$\perp \perp \perp$	LJ.		<u> </u>	N	lumber of	f Wells	1					•	
												ydrocarbon	Storage	
	<u> </u>						NT 4				CLAS			
			S		Lea	ase Name	NA				Well Numb	per I-03		
		CA	SING AND TU	BING RECORI	D AFTER PLU	JGGING				METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE	E WT (	LB/FT)	TO BE PUT	N WELL (FT)	TO BE LEF	T IN WEL	L (FT)	HOLE SIZ	ZE	<b>✓</b> The	Balance Me	thod		
24"	94.62		20		20			28"		The	Dump Baile	r Method		
14"	45.68	3	490		490			20"		The	Two-Plug M	ethod		
5"	5.61		510		510			14"					be grouted	d using
5"	3		690		690			12.25"			the plug	displacem	ent metho	d
	CE	MENTING	TO PLUG AN	O ABANDON DA	ATA:	F	PLUG #	1 PLUG#	<b>‡2</b>	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of Hole or	Pipe in	which Plug W	ill Be Placed (	(inche:	5	5							
Depth	n to Bottoi	n of Tul	oing or Drill P	pe (ft			1200		Ħ١					
Sacks	s of Cemei	nt To Be	Used (each p	ug)			128		Ħ١					
Slurry	y Volume	Го Ве Р	umped (cu. ft.				163		ĦΪ					
Calcu	lated Top	of Plua	(ft.)						Ħ١					
			if tagged ft.)				٧A		Ħ١					
	v Wt. (Lb./		, ,				5.4		Ħ١					
Type	Cement or	Other I	Material (Class	III)			V		=#					
		LIS	ST ALL OPEN	HOLE AND/OR	PERFORATE			ND INTERVA	LS W	VHERE CAS	ING WILL BE	VARIED (if a	inv)	
		From		T	То					rom		(	To	
520				720										
760				960										
100				1200										
100	0			1200										
Estim	nated Cost	to Plug	Wells											
	,500 - aba													
φ12	,500 - abi	maomi	icht costs											
						Ce	ertific	ation						
1	I certify :	nder th	e penalty of la	w that I have i	personally ex	xamined a	and am	familiar with	h the	information	n submitted i	n this docu	nent and all	
	attachme	nts and	that, based o	n my inquiry d	of those indiv	viduals in	nmedia	tely respons	sible	for obtainir	ng the inform	ation, I beli	eve that the	
				nd complete.			e are si	gnificant pe	naltie	es for subm	itting false i	nformation,	including the	)
	possibili	y or fine	z anu imprisoi	nment. (Ref. 4	+v Crk 144.3	· <u>-</u> -								
Name	and Offic	ial Title	(Please type	or print)		Signat	ure		/				Date Signed	
Dan	Johnson,	VP En	vironmental	and Technica	al Services		2	2	2C	pol			10/01/2014	1

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Operator Name: CANDREVA, LAUREN Plot Date: September 30, 2014 Drawing Layout: OPTION A-1





TYPICAL PROPOSED INJECTION AND RECOVERY WELL ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

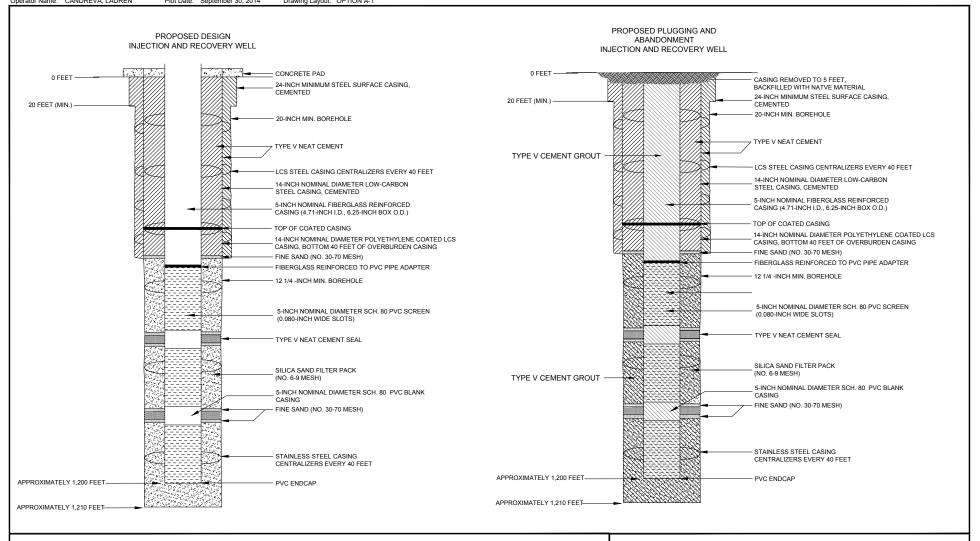
0.504	United Sta		ental Protection n, DC 20460	Agency				
<b>\$EPA</b>	PLUGGING	-		ENT PL	AN			
Name and Address of Facility			Name and Add	ress of Owne	r/Operator			
Florence Copper Project 1575 W Hunt Hwy, Florence, AZ 8	35132		Florence Cop 1575 W Hun		ence, AZ 851	132		
	Stat	e	c	ounty		Permit	Number	
Locate Well and Outline Unit on Section Plat - 640 Acres		izona		inal			6000001	
	Sur	face Location	Description					
N			/4 of <u>NE</u> 1/4 of					
<b>╽</b> ├─┼─├─┼─ <b>┟</b> ─┼─├			directions fron	n nearest line	es of quarter	section and	arilling unit	
<b>│</b>	_ <del> </del> _   Surf							
			frm (N/S) N Li					
	and		(E/W) E Line		ction.	WELL	ACTIVITY	
w <del>                                     </del>	<del>-                                    </del>	Individual P		/IN	CLAS		ACTIVITY	
<b>│</b>		Area Permit	eriiiit		CLAS			
! !• !   ! !		Rule				rine Dispos	al	
<b>▎</b> ├─┼─├─┼─ <b>┟</b> ─┼─├	- † -   -		1			nhanced Re		
<b>┃ ├</b> ─┼─├─┼─┠─┼─├	_ <u> </u> _   Nu	umber of Wells	s <u>1</u>		□ н	ydrocarbon	Storage	
					CLAS	S III	-	
s	Lea	se Name NA			Well Numb	er I-04		
CASING AND TUBI	ING RECORD AFTER PLUC	GGING		METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE WT (LB/FT) TO BE PUT IN	WELL (FT) TO BE LEFT	IN WELL (FT)	HOLE SIZE	✓ The	e Balance Me	thod		
24" 94.62 20	20		28"	The	Dump Baile	r Method		
14" 45.68 490	490		20"	The	Two-Plug M	ethod		
5"  5.61  510	510		14"	<b>∠</b> Oth	ner - 20" bor			
5" 3 690	690		12.25"		the plug	displacem	ent metho	d
CEMENTING TO PLUG AND A	ABANDON DATA:	PLUG	#1 PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of Hole or Pipe in which Plug Will	<u> </u>	5						
Depth to Bottom of Tubing or Drill Pipe	-	1200						
Sacks of Cement To Be Used (each plug	g)	128						
Slurry Volume To Be Pumped (cu. ft.)		163						
Calculated Top of Plug (ft.)  Measured Top of Plug (if tagged ft.)		NA						
Slurry Wt. (Lb./Gal.)		15.4						
Type Cement or Other Material (Class II	 II)	V						
LIST ALL OPEN HO	OLE AND/OR PERFORATED		AND INTERVALS	WHERE CAS	ING WILL BE	VARIED (if a	inv)	
From	То			From		•	To	
520	720							
760	960							
1000	1200							
Estimated Cost to Plug Wells								
\$12,500 - abandonment costs								
		Certific	cation					
I certify under the penalty of law attachments and that, based on	my inquiry of those indivi	amined and an iduals immedi	n familiar with th ately responsibl	e for obtainii	ng the inform	ation, I beli	eve that the	
information is true, accurate, and possibliity of fine and imprisonm			ngiimoani penai	เเธอ เบเ ธนมไไ	iittiing laise if	ormation,	ciuumg Me	•
Name and Official Title (Please type or	r print)	Signature					Date Signed	i
Dan Johnson, VP Environmental an		_	· ·	. 0			10/01/2014	
		1		~ /		1	1	

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Drawing Name: G:PROJECTS\CURIS RESOURCES\38706-CURIS FEASIBILITY\DRAWINGS\JULY 2014 UIC APP\PTF PLUGGING\38706-300-000-INJECTION\_RECOVERY WELL\_3SCREENS.DWG

Operator Name: CANDREVA, LAUREN Plot Date: September 30, 2014 Drawing Layout: OPTION A-1





TYPICAL PROPOSED INJECTION AND RECOVERY WELL ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

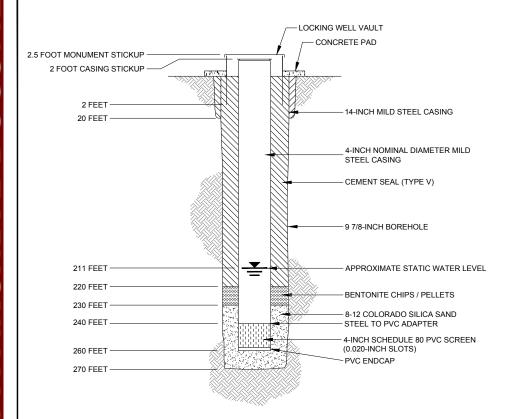
₽E	PA		PLU		Washing	ton, C		Agency	AN			
Name a	nd Address o	of Facility	7 2 2 2 2 2			Na	me and Ad	dress of Owne	r/Operator			
	nce Copper W Hunt Hw	Project y, Florence, AZ	85132				lorence Co 575 W Hu	pper nt Hwy, Flore	ence, AZ 85	132		
1,	cate Well an	nd Outline Unit on		Stat		7		County		Charles and a second	Number	
3.775	ection Plat - 6			Ar	izona			Pinal		AZ39	6000001	
Ē	T 1	N I I			face Location 1/4 of SW		programmy.	SW 1/4 of	Section 28	Township	4S Range	9E
w		<del> </del>	-	Sur	face ation 955 1175 ft. fro	ft. frm m (E/\	(N/S) N	m nearest line Line of quarter of quarter se	section		drilling unit	
		<del> </del> - - -   - - -		Ē	Individua Area Pern Rule	nit	ait		-			
F	+++	†- <b> </b> - -	1	, No	umber of W	elis <u>1</u>	_		and the same of	lydrocarbon	Section of the sectio	
		s		Lea	se Name	A			Well Numi	MEETI	BF	
		CASING AND TU	BING RECORD	AFTER PLU	GGING		4	METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE	WT (LB/F	T) TO BE PUT I	N WELL (FT)	TO BE LEFT	IN WELL (	FT)	HOLE SIZE	T I I Th	e Balance Me	thod		
14"	45.68	20		20			20"	T =	e Dump Baile			
4"	45.68	240		240			9.86"	]   Th	e Two-Plug N	lethod		
4"	3	20		20			9.86"	Ot	eren ar announce and area			
						- 4						
	CEMENT	TING TO PLUG AND	ABANDON DA	ATA:	PLU	JG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
		in which Plug Wi		inche	4							
		Tubing or Drill Pi			260							
CONTRACTOR OF THE PARTY OF THE		Be Used (each pl	505(\$).		18							
- 1-10-1K (1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	HENRY CONTRACTOR	e Pumped (cu. ft.)			23		1					
0.035-25-2002	ted Top of Pi				0							
	Wt. (Lb./Gal.)	ug (if tagged ft.)			NA 15							
		er Material (Class	IIIV		15.4							
. ypa o	or our			DEDEGRATE	V		III.	C WILLESE O 1	INO WELL ST	WADIED #		II.
	e.	LIST ALL OPEN H	T AND/OR	To	INTERVAL	S ANI	INTERVAL	From	ING WILL BE	VARIED (If a	To	
240	Fron	n .	260	10		10		FIOM			10	
240			1200			-						
						+						
						=						
Estimat	ed Cost to P	lug Wells										
0.000	0 - abandon	S. Prider and Australia										
a ii	ttachments a nformation is	r the penalty of lav and that, based or s true, accurate, a fine and imprison	n my inquiry o nd complete.	f those indivi I am aware t	iduals imme hat there ar	am fa ediate	miliar with ly responsil	ole for obtaini	ng the inform	nation, I belie	eve that the	
Name a	nd Official Ti	itle (Please type o	or print)		Signature						Date Signed	
Dan J	ohnson, VP	Environmental a	and Technical	Services			2).				10/1/2	2014

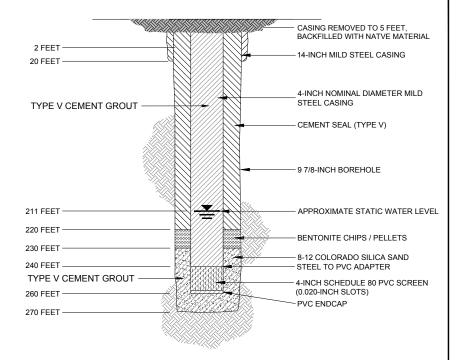
The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

Burden means the total time, effort, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instructions; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The OMB control numbers for EPA's regulations are listed in 40 CFR Part 9 and 48 CFR Chapter 15.

#### PROPOSED DESIGN SUPPLEMENTAL MONITORING WELL M55-UBF

PROPOSED PLUGGING AND ABANDONMENT SUPPLEMENTAL MONITORING WELL M55-UBF





HALEY& FLORENCE COPPER, INC. FLORENCE, ARIZONA

PROPOSED SUPPLEMENTAL MONITORING WELL M55-UBF ABANDONMENT SCHEMATIC

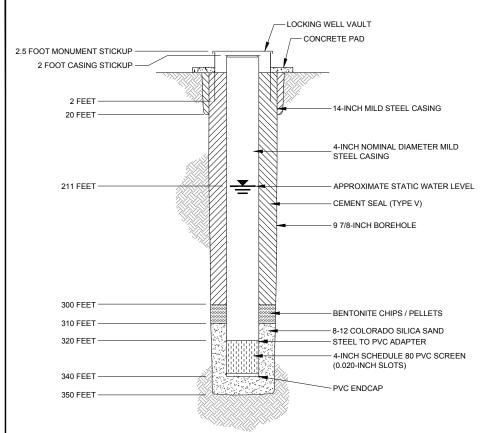
SCALE: NOT TO SCALE AUGUST 2014

<b>≎EPA</b>		PLU	United State	es Environmer Washington,	DC 20460		AN			
Name and Addres	s of Facility				V - T - T - T - T -	dress of Owne				
Florence Coppe 1575 W Hunt H	er Project Iwy, Florence, AZ	85132			Florence Co 1575 W Hu	opper nt Hwy, Flor	ence, AZ 85	132		
Locato Wall	and Outline Unit or		State			County		Permit	Number	
Section Plat	and Outline Unit or - 640 Acres		Ariz	ona		Pinal		AZ39	5000001	
	N			ce Location D 1/4 of <u>SW</u> 1/4		of <u>SW</u> 1/4 of	Section 28	Township	4S Range	9E
- <del> </del> <del> </del> - <del> </del> <del> </del> - <del> </del> <del> </del> - <del> </del> <del> </del> - <del> </del> <del> </del> <del> </del> - <del> </del> <del> </del> <del> </del> <del> </del>	·++- ·++- ·++-	-  -  -  -  -  -	Surfa Locat	ce tion 925 ft. fri	m (N/S) N	om nearest line Line of quarte e of quarter se	r section	section and	drilling unit	
w	100	i i i		TYPE OF	AUTHORIZAT	ION		WELL	CTIVITY	
"I i i i		1 1		Individual Per	mit		CLAS	SS I		
F-1-1		<u> </u>	<b>V</b>	Area Permit			CLAS			
-i-i-i			1-3	Rule				Brine Dispos		
- Heisti		i	Nun	nber of Wells	1		1	nhanced Re		
	TE NIE	i i i i	1					lydrocarbon	Storage	
Lii	ili	للنا		520			✓ CLAS	_		
	S		Lease	Name NA			Well Num	ber M56-L	BF	
	CASING AND TU	BING RECOR	AFTER PLUG	GING		METH	OD OF EMPL			LUGS
SIZE WT (LB	VET) TO BE PUT	IN WELL (FT)	TO BE LEFT I	N WELL (FT)	HOLE SIZ	F 77.				
14 36.71	20	in tree (c.i.)	20	N WEEL (17)	20	-H ≝ ''	e Balance Me			
4 8.9	320		320		9.86	7 =	e Dump Baile			
4 2	20				9.86	7 7-0	e Two-Plug N	lethod		
4 2	20		20		9.80	ot	her			
CEME	NTING TO PLUG AN	D ARANDON D	ATA:	PLUG #	1 PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	pe in which Plug W			4	PLUG #	FLUG #3	FLUG #4	PLUG #5	PLUG #6	PLUG #1
A CONTRACTOR OF THE PERSON OF	of Tubing or Drill Pi		inche	340						
	To Be Used (each p			23						
	Be Pumped (cu. ft.)			30	-	-				
Calculated Top of				0						
THE CONTRACT COMPLETE	Plug (if tagged ft.)			NA		+				
Slurry Wt. (Lb./Ga				15.4	-	-				
	other Material (Class	i III)		V	+					
726	LIST ALL OPEN		DEDECRATED		ND INTERVAL	S WHERE CAS	ING WILL BE	VARIED (if a	mu)	
Fr	rom	TOLE AND/OR	To	INTERVALS A	NO INTERVAL	From	JING WILL BE	VARIED (II a	To	
320		340		10		110111				
320		340								
Estimated Cost to	Plug Wells									
\$8,000 - abando										
attachment information	der the penalty of la s and that, based o i is true, accurate, a of fine and imprisoi	n my inquiry o ind complete.	of those individ I am aware tha	uals immediat	familiar with tely responsi	ble for obtaini	ng the inforn	nation, I beli	eve that the	
Name and Official	Title (Please type	or print)	- F	Signature					Date Signed	1
				Signature		()			-	
Dan Jonnson, V	P Environmental	and Technica	Services		2	2 pm			10/1/2	2014

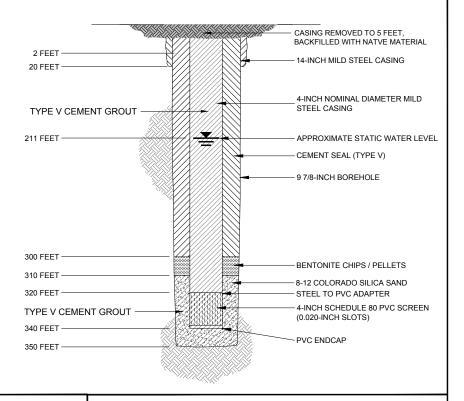
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#### PROPOSED DESIGN SUPPLEMENTAL MONITORING WELL M56-LBF



PROPOSED PLUGGING AND **ABANDONMENT** SUPPLEMENTAL MONITORING WELL M56-LBF





FLORENCE COPPER, INC. FLORENCE, ARIZONA

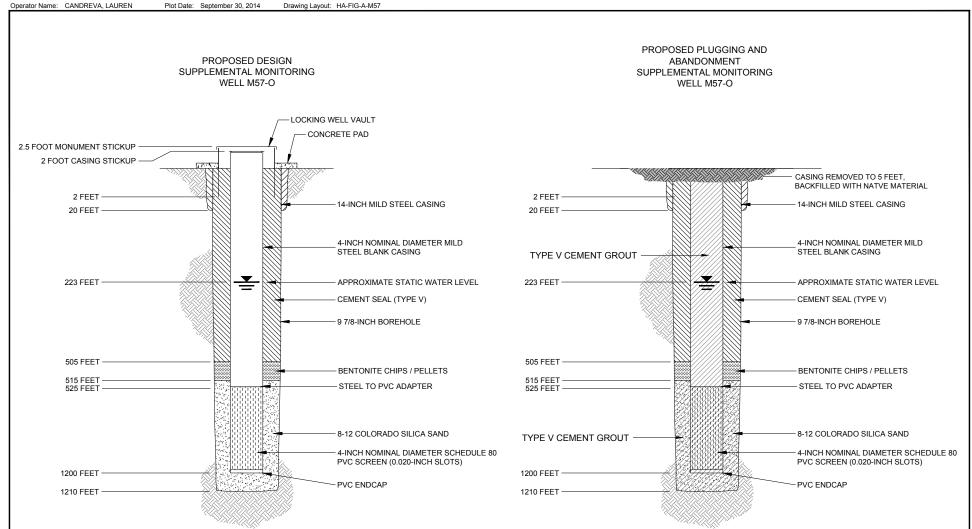
PROPOSED SUPPLEMENTAL MONITORING WELL M56-LBF ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

•	_	<b>D</b> A			United S			ntal Protect	tion /	Agency				
Ÿ	E	PA		PLU	IGGING		-	•	IMI	ENT PL	AN			
Name	e an	d Address of Fa	acility							ess of Owne				
Flo	renc	ce Copper Pro V Hunt Hwy, I	ject	85132				Florence	Cop	per	ence, AZ 85	132		
					St	tate			Co	unty		Permit	Number	
		ate Well and O tion Plat - 640 A			A	Arizona	ι		Pi	inal		AZ39	6000001	
			N			_		Description		CVV 414 C	2 11 29	7_	4S Range	0E
		<u> </u>	_	_							Section 28 es of quarter			
		ŢŢŢ				urface	en in two	unections		nearest mi	es or quarter	Section and	arming and	
	-	<del>                                     </del>		-+-			960_ft. fr	m (N/S) N	Lir	ne of quarte	r section			
	-		╌┠╌┼╌╎	-+-						of quarter se				
w		+ + +		E		_		AUTHORIZ	ATIO	N			ACTIVITY	
	<u>_</u> .		_				vidual Pe a Permit	rmit			CLAS			
						Rul						ss II Brine Dispos	al	
	-	<del>                                     </del>		_ + _	"			1				inhanced Re		
	<u> </u>		_			Numbe	r of Wells	1				lydrocarbon	-	
											✓ CLAS	SS III		
			S		Le	ease Na	me NA				Well Numi	m57-C	1	
		CA	SING AND TUE	BING RECORE	AFTER PL	UGGIN	G			METH	OD OF EMPL	ACEMENT C	F CEMENT P	LUGS
SIZ	E	WT (LB/FT)	TO BE PUT II	N WELL (FT)	TO BE LE	FT IN W	ELL (FT)	HOLE S	IZE	<b>☑</b> Th	e Balance Me	thod		
14		36.71	20		20			20		☐ Th	e Dump Baile	er Method		
4		8.9	525		525			9.86	_	Th	e Two-Plug N	lethod		
4	_	2	675		675			9.86	_	U Ot	her			
		CEMENTING	TO PLUG AND	A PANDON D	\TA.		PLUG #	1 PLUG	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of H	lole or Pipe in					4	PLUG	#4	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #1
		Bottom of Tub					1200							
Sack	s of	Cement To Be	Used (each plu	ıg)			82							
		olume Το Be Ρι					105							
		ed Top of Plug					0							
		d Top of Plug (i	if tagged ft.)				NA	_						
	-	t. (Lb./Gal.) nent or Other N	latorial (Class	III)			15.4 V		_					
Турс	Cei		T ALL OPEN H		DEDEODAT	ED INT		ND INTERV	ALC	WHERE CAS	SINC WILL BE	VARIED (if		
		From	T ALL OF EN H		To	ED IN II	ERVALS A	IND INTERV	ALS	From	SING WILL BE	VARIED (II a	To	
525	<u> </u>			1200										
		d Cost to Plug												
\$12	2,50	0 - abandonm	ent costs											
							Certific	ation						
		ertify under the achments and												
	inf	ormation is tru ssibliity of fine	e, accurate, a	nd complete.	I am aware	that th					-			)
N:-			<u> </u>	•		-						1	Date O'	1
		d Official Title			1 Camri	Sigi	nature _		\				Date Signed	
Dar	ı Jol	hnson, VP En	vironmental a	na Technica	i Services			-/	)	V por			10/01/2014	1

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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FLORENCE COPPER, INC. FLORENCE, ARIZONA

PROPOSED SUPPLEMENTAL MONITORING WELL M57-O ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

### Washington, Dc 2446  PLUGGING AND ABANDONMENT PLAN  Name and Address of Gracilly	١.,				United Sta			ntal Protection	on A	gency				
Florence Capper Project   1575 W Ham Haw, Florence, AZ 85132   1575 W Ham Haw, Flor	Ÿ	EPA		PLU	IGGING		•		ME	NT PL	AN			
STOR William Hays, Florence, AZ 85132   State   Stat	Name	and Address of F	acility					Name and A	ddres	ss of Owner	r/Operator			
Section Plat. 469 Acres   Surface Location Description				85132				Florence C	Copp	er		132		
Section Plat. 469 Acres   Surface Location Description					Stat	te			Cor	untv		Permit	Number	
Surface Location Will have direction from nearest lines of quarter section and drilling unit Surface Location (20) fit, from (EW) [														
N   SW   1/4 of   NC   1/4 of	<u> </u>	Section Flat - 040 A			Sur	face L	ocation D	escription						
Surface Location 620 ft. frm (N/S) N Line of quarter section and 1070 ft. from (EW) E Line of quarter section.  TYPE OF AUTHORIZATION Individual Permit Rule Number of Wells Pfine Disposal Enhanced Recovery Hydrocarbon Storage CASING AND TUBING RECORD AFTER PLUGGING  CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS SIZE WT (LEIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE H4" 8,57 20 595 19,86" The Dump Baller Method The Dump Baller M		<del>                                     </del>	N 		sw	1/4 o	f <u>nw</u> 1/4	of <u>NE</u> 1/4						
Location (20) ft. from ((NS)) Line of quarter section and (100) ft. from ((EW)) E. Line of quarter section.    Type GP AUTHORIZATION   WELL ACTIVITY   Individual Permit   LASS II   Brine Disposal   Enhanced Recovery   Hydrocarbon Storage   Lease Name   NA   Well Number of Wells   Lass II   Brine Disposal   Enhanced Recovery   Hydrocarbon Storage   Lease Name   NA   Well Number   MS8-O   Lease Name   NA		- + -  - + -	— <del>                                    </del>	-	Loc	ate we	ell in two	directions fr	rom ı	nearest line	s of quarter	section and	drilling unit	
And		_ + _   - + -	– ⊨ ∔ – ¦	-					7					
TYPE OF AUTHORIZATION   CLASS II   CLASS III		iii	lii	i l										
Individual Permit					and	1070	ft. from (E	E/W) $E$ Lir	ne of	f quarter se	ction.			
Individual Permit	w			╼┿═		=	TYPE OF	AUTHORIZA <sup>*</sup>	TION	l	_	WELL A	ACTIVITY	
Rule Number of Wells  S  CASING AND TUBING RECORD AFTER PLUGGING  SIZE WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  [14" 36.71   20   20   20"   The Balance Method  4" 8.9   595   595   595   9,86"   The Two-Plug Method  4" 2 2   66.05   60.5   9.86"   Other  CEMENTING TO PLUG AND ABANDON DATA:  Size of Hole or Pipe in which Plug Will Be Placed (inche  Depth to Bottom of Tubing or Drill Pipe (ft  1200   82   100   10		iiai	lii	-		Indiv	idual Per	rmit			L CLAS	SS I		
Number of Wells		-+	— <del>                                    </del>		~	Area	Permit				CLAS	SS II		
S  CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS  SIZE WT (LBFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  14" 36.71 20 20 20" The Dump Bailer Method  14" 8.9 595 595 995 9.86" The Two-Plug Method  14" 2 6605 6005 9.86" Other  CEMENTING TO PLUG AND BABNDON DATA: PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6  Depth to Sottom of Tubing or Drill Pipe (ft 1200 100 100 100 100 100 100 100 100 10		_ + _ + _ + -	_L_¦_;	_ 4 _		Rule	)				В	rine Dispos	al	
CASING AND TUBING RECORD AFTER PLUGGING  CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS  SIZE WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  14" 36.71 20 20 20" The Dump Bailer Method  14" 8.9 595 595 98.6" The Two-Plug Method  CEMENTING TO PLUG AND ABANDON DATA: PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #6 PLUG #7  Size of Hole or Pipe in which Plug Will Be Placed (inche  Depth to Bottom of Tubing or Drill Pipe (ft 1200 82 82 82 82 82 82 82 82 82 82 82 82 82								1			E	nhanced Re	covery	
CASING AND TUBING RECORD AFTER PLUGGING  CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  14" 36.71 20 20 20 The Balance Method  The Dump Bailer Method  The Dump Bailer Method  The Two-Plug Method  Other  CEMENTING TO PLUG AND ABANDON DATA: PLUG #1 PLUG #2 PLUG #3 PLUG #8 PLUG #6 PLUG #7  Size of Hole or Pipe in which Plug Will Be Placed (inche 4 Depth to Bottom of Tubing or Drill Pipe (ft 1200 Sacks of Cement To Be Used (each plug) 82  Sacks of Gement To Be Used (each plug) 82  Salvery Volume To Be Pumped (cu. ft.) 105  Calculated Top of Plug (ft tagged ft.) NA  Measured Top of Plug (ft (ftagged ft.) NA  Sizery Material (Class III) V  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From To From To From To  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, i believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.33)  Name and Official Title (*Please type or print)  Signature  Date Signed	<b>l</b>		$ \vdash$ $+$ $ \vdash$	_ + _	N	umber	of Wells	1			□н	ydrocarbon	Storage	
CASING AND TUBING RECORD AFTER PLUGGING  SIZE WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE    WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE   WT (LBIFT) TO BE LEFT IN WELL (FT) TO BE LE											CLAS	SS III		
SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE    4"   36.71   20			s		Lea	se Nan	ne NA				Well Numb	mer M58-O		
14"   36.71   20   20   20"   The Dump Baller Method   4"   8.9   595   595   9.86"     The Two-Plug Method   The Two-Plug Method   The Two-Plug Method   The Two-Plug Method   Other   CEMENTING TO PLUG AND ABANDON DATA:   PLUG #1   PLUG #2   PLUG #3   PLUG #4   PLUG #5   PLUG #6   PLUG #7   PLUG #7   PLUG #7   PLUG #8   PLUG #8   PLUG #7   PLUG #7   PLUG #8   PL		CA	SING AND TUE	ING RECORE	AFTER PLU	GGING	ì	_		METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
4"   8.9   595   595   9.86"   The Two-Plug Method Other	SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LEFT	T IN WE	ELL (FT)	HOLE SIZ	ΖE	✓ The	Balance Me	thod		
CEMENTING TO PLUG AND ABANDON DATA:    PLUG #1	14"	36.71	20		20			20"		☐ The	Dump Baile	r Method		
CEMENTING TO PLUG AND ABANDON DATA:  PLUG #1 PLUG #2 PLUG #3 PLUG #4 PLUG #5 PLUG #7  Size of Hole or Pipe in which Plug Will Be Placed (inche  Depth to Bottom of Tubing or Drill Pipe (ft  1200  Sacks of Cement To Be Used (each plug)  Siurry Volume To Be Pumped (cu. ft.)  Calculated Top of Plug (ff tagged ft.)  Measured Top of Plug (if tagged ft.)  NA  Silurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From  To  From  To  From  To  From  To  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Other  Other  Other  Other  PLUG #4 PLUG #5 PLUG #5 PLUG #7  PLUG #5 PLUG #7  PLUG #4 PLUG #5 PLUG #7  PLUG #4 PLUG #5 PLUG #7  PLUG #6 PLUG #7  PLUG #5		8.9	595		595			9.86"		☐ The	Two-Plug M	ethod		
Size of Hole or Pipe in which Plug Will Be Placed (inche  Depth to Bottom of Tubing or Drill Pipe (ft  1200  Sacks of Cement To Be Used (each plug)  82  Slurry Volume To Be Pumped (cu. ft.)  105  Calculated Top of Plug (ft.)  Measured Top of Plug (ft.)  Measured Top of Plug (ft (agged ft.)  NA  Slurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From  To  From  To  From  To  Sp5  1200  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (*Please type or print)  Signature  Date Signed	4"	2	605		605			9.86"			_			
Size of Hole or Pipe in which Plug Will Be Placed (inche  Depth to Bottom of Tubing or Drill Pipe (ft  1200  Sacks of Cement To Be Used (each plug)  82  Slurry Volume To Be Pumped (cu. ft.)  105  Calculated Top of Plug (ft.)  Measured Top of Plug (ft.)  Measured Top of Plug (ft (agged ft.)  NA  Slurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From  To  From  To  From  To  Sp5  1200  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (*Please type or print)  Signature  Date Signed														
Depth to Bottom of Tubing or Drill Pipe (ft   1200		CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG #	1 PLUG#	ŧ2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Sacks of Cement To Be Used (each plug)  Slurry Volume To Be Pumped (cu. ft.)  Calculated Top of Plug (ft)  Measured Top of Plug (if tagged ft.)  Slurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From  To  From  To  From  To  S95  1200   Estimated Cost to Plug Wells  \$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed	Size o	f Hole or Pipe in	which Plug Wil	I Be Placed (	inche		4							
Slurry Volume To Be Pumped (cu. ft.)  Calculated Top of Plug (ft.)  Measured Top of Plug (if tagged ft.)  Measured Top of Plug (if tagged ft.)  NA  Slurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From To From To  595   1200  Estimated Cost to Plug Wells  \$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed	Depth	to Bottom of Tub	ing or Drill Pip	e (ft			1200							
Slurry Volume To Be Pumped (cu. ft.)  Calculated Top of Plug (ft.)  Measured Top of Plug (ft.)  Mesured Top of Plug (if tagged ft.)  Slurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From  To  From  To  From  To  Sp5  1200  Lestimated Cost to Plug Wells  \$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and an familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed	Sacks	of Cement To Be	Used (each plu	ıg)			82							
Calculated Top of Plug (ft.)  Measured Top of Plug (if tagged ft.)  NA  Slurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From To From To  [595]  1200  Estimated Cost to Plug Wells  \$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed	Slurry	Volume To Be Pu	ımped (cu. ft.)											
Measured Top of Plug (if tagged ft.)  Siurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From To From To  [595]  [1200]  Estimated Cost to Plug Wells  \$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed	Calcul	lated Top of Plug	(ft.)											
Siurry Wt. (Lb./Gal.)  Type Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From To From To  595   1200    Estimated Cost to Plug Wells  \$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature Date Signed														
Type Cement or Other Material (Class III)  LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From To From To  595  1200  Estimated Cost to Plug Wells  \$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed	Slurry	Wt. (Lb./Gal.)							ĦΪ					
LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)  From To From To  595  1200  Estimated Cost to Plug Wells  \$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed	Type (	Cement or Other N	Material (Class	III)					Ħ					
From To From To    595		1 19	T ALL OPEN H	OLE AND/OR	PERFORATE	D INTE		ND INTERVA	ISW	VHERE CAS	ING WILL BE	VARIED (if a	nv)	
Estimated Cost to Plug Wells  \$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed			TALL OF LIVE	OLL AND/OR		J	INVALO A	IND INTERVA			ING WILL BL	VAINED (II C	•	
Estimated Cost to Plug Wells \$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed	505			1200										
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\$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed														
\$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed														
\$12,500 - abandonment costs  Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)  Name and Official Title (Please type or print)  Signature  Date Signed	Fetime	ated Cost to Plug	Wells											
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		attachments and information is tru	that, based on ie, accurate, ar	my inquiry o	of those indiv I am aware t	amined iduals hat the	d and am immediat	familiar with tely respons	ible	for obtaining	ng the inform	ation, I beli	eve that the	Ð
	Name	and Official Title	(Please type of	r print)		Sign	ature						Date Signed	İ
					1 Services		•		2	- John State of the State of th	_			

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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PROPOSED PLUGGING AND PROPOSED DESIGN **ABANDONMENT** SUPPLEMENTAL MONITORING SUPPLEMENTAL MONITORING WELL M58-O WELL M58-O LOCKING WELL VAULT CONCRETE PAD 2.5 FOOT MONUMENT STICKUP 2 FOOT CASING STICKUP CASING REMOVED TO 5 FEET, BACKFILLED WITH NATVE MATERIAL 2 FEET 14-INCH MILD STEEL CASING 14-INCH MILD STEEL CASING 20 FEET -20 FEET 4-INCH NOMINAL DIAMETER MILD 4-INCH NOMINAL DIAMETER MILD STEEL BLANK CASING STEEL BLANK CASING TYPE V CEMENT GROUT 220 FEET APPROXIMATE STATIC WATER LEVEL 220 FEET -APPROXIMATE STATIC WATER LEVEL - CEMENT SEAL (TYPE V) - CEMENT SEAL (TYPE V) 9 7/8-INCH BOREHOLE 9 7/8-INCH BOREHOLE 575 FEET -575 FEET -BENTONITE CHIPS / PELLETS BENTONITE CHIPS / PELLETS 585 FEET 585 FEET 595 FEET STEEL TO PVC ADAPTER 595 FEET - STEEL TO PVC ADAPTER 8-12 COLORADO SILICA SAND 8-12 COLORADO SILICA SAND TYPE V CEMENT GROUT 4-INCH NOMINAL DIAMETER SCHEDULE 80 4-INCH NOMINAL DIAMETER SCHEDULE 80 PVC SCREEN (0.020-INCH SLOTS) PVC SCREEN (0.020-INCH SLOTS) 1200 FEET -1200 FEET -PVC ENDCAP PVC ENDCAP 1210 FEET -1210 FEET -



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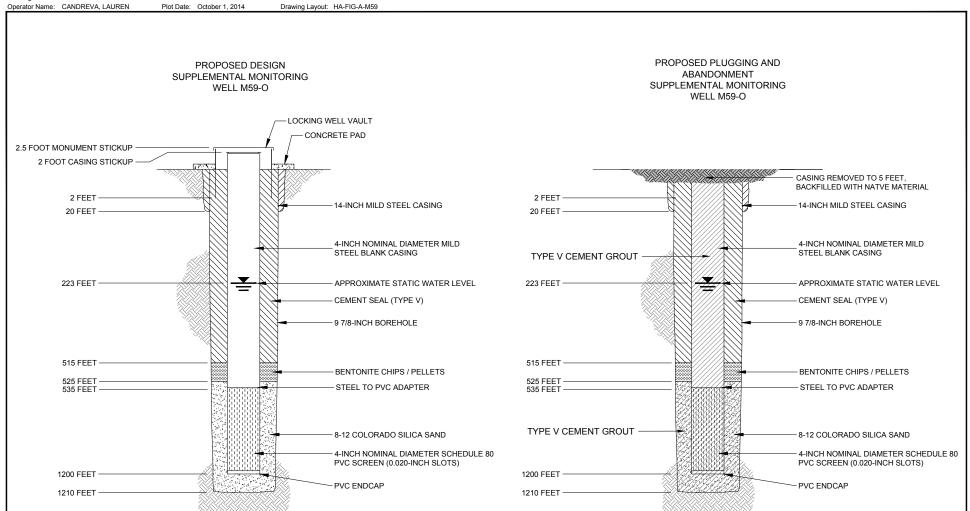
PROPOSED SUPPLEMENTAL MONITORING WELL M58-O ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

ΩΙ		24			United S			ental Protect	tion	Agency				
<b>⊹</b>		A		PLU	IGGING		_		IM	ENT PL	AN			
Name	and	Address of F	acility					Name and A	٩ddr	ess of Owner	r/Operator			
		e Copper Pro	ject Florence, AZ	85132				Florence			ence, AZ 85	132		
			,		1					-	,			
		ate Well and C	Outline Unit on		Sta A	ate Arizona				ounty inal			Number 6000001	
_	<del>5000</del>		N		Su	ırface Lo	cation I	Description						
					SI	E 1/4 of	SW 1/	4 of <u>NE</u> 1/4	of_	SW 1/4 of	Section 28	Township	4S_ Range	9E
-		<u> </u>	_		Lo	cate wel	l in two	directions	from	nearest line	s of quarter	section and	drilling unit	
_		<del>-</del>	- $ $ $ $			rface	85 4 6	(N/C) N	٦	ne of quarter				
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w				<u> </u>		1	TYPE OF	AUTHORIZA	ATIO	N		WELL	ACTIVITY	
		<u>i_Li</u> .	_			_ Indivi ✓ Area I	dual Pe	ermit			CLAS			
		•		!	Ϊ́	Rule	Permit					ss II Brine Dispos	al	
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0.75	- 1		ASING AND TUE		_			T = 0		METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE		<b>WT (LB/FT)</b> 36.71	TO BE PUT IN	WELL (FI)	TO BE LEF	-I IN WE	LL (FI)	HOLE S	IZE		Balance Me			
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4		2	665		665			9.86		Oth	_	ietiiou		
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			TO PLUG AND				PLUG #	f1 PLUG	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
			which Plug Wi		inche		1200							
			Used (each plu	•			82		_					
Slurry	/ Vo	lume To Be Pi	umped (cu. ft.)	<u> </u>			105							
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		Top of Plug (	if tagged ft.)				NA							
		. (Lb./Gal.)	Material (Class	IIIV		_	15.4		_					
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		From	T ALL OF EN II	OLE AND/OK	To	ED INTER	VALS A	MID INTERV	ALS	From	ING WILL BE	VARIED (II a	To	
535				1200										
Fstim:	ater	l Cost to Plug	Wells											
		) - abandonm												
						С	ertific	ation						
	l ce	ertify under the	e penalty of lav	v that I have r	nersonally ex				th th	e informatio	n suhmitted	in this docu	ment and all	
	atta	chments and	that, based on	my inquiry o	of those indiv	viduals i	mmedia	itely respon	sible	e for obtainir	ng the inform	nation, I beli	eve that the	
			ue, accurate, ar e and imprison	•			re are s	ignificant pe	enait	ies for subm	iitting false i	nrormation,	incluaing the	)
Name	and	l Official Title	(Please type o	or print)		Signa	iture (				,		Date Signed	
Dan	Joh	nson, VP En	vironmental a	nd Technica	l Services			7		المراكب			10/01/2014	1

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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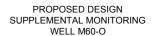
PROPOSED SUPPLEMENTAL MONITORING WELL M59-O ABANDONMENT DIAGRAM

SCALE: NOT TO SCALE AUGUST 2014

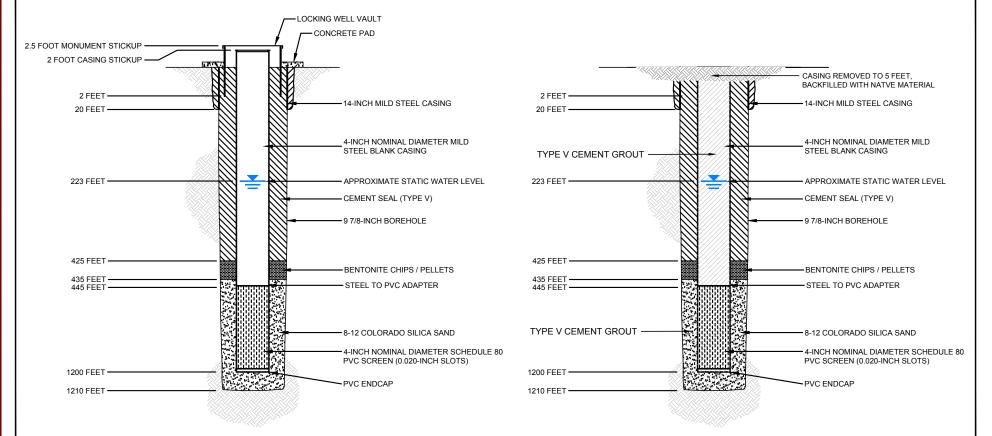
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		PA		PLU	IGGII	NG AN	D AB	ΑN	DONN	ИΕN	NT PL	AN			
Name	e an	d Address of F	acility					Nam	e and Ad	dress	of Owner	r/Operator			
		ce Copper Pro						Flo	rence Co	opper					
157	75 V	V Hunt Hwy, 1	Florence, AZ	35132				157	75 W Hu	nt Hw	vy, Flore	nce, AZ 85	132		
	Loc	cate Well and C	outline Unit on			State				Count				Number	
		ction Plat - 640				Arizona	l .			Pinal	l		AZ39	6000001	
			N			Surface L				e Sw	1/4 of	Section 28	Township	4S Range	9F.
		<u> </u>	_					-						drilling unit	
												<b></b>		g	
	_	++-	$ \vdash$ $+$ $ \vdash$	-+-		Surface Location	1280 &	5 /N	ues N						
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		CA	SING AND TUE	ING RECOR	AFTER	PLUGGING	3				METH	OD OF EMPL	ACEMENT C	F CEMENT P	LUGS
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN W	ELL (FT)	Н	OLE SIZE	Ε	<b>✓</b> The	Balance Me	thod		
14"		36.71	20		20			20	0"		The	Dump Baile	r Method		
4"		8.9	445		445			9.	86"		The	Two-Plug N	lethod		
4"		2	755		755			9.	.86"		Oth	er			
		CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG	#1	PLUG #2	2 P	LUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
		lole or Pipe in			inche		1200	4		4					
		Bottom of Tub					1200	=		₩					
		Cement To Be	•	9)			82	_		4					
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		ed Top of Plug	• •				0			4					
		d Top of Plug ( /t. (Lb./Gal.)	ii taggeu it.)				NA 15.4	-		╬					
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Туре	OGI		T ALL OPEN H		DEDEO	ATED INT		AND	NTEDVAL	e wu	EDE CAS	ING WILL BE	VARIED (if		
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1		tachments and													
1	inf	formation is tru	ie, accurate, an	d complete.	I am aw	are that th		_	-			-			<b>3</b>
1	ро	ssibliity of fine	and imprison	ment. (Ref. 4	w CFR 1	44.32)									
Name	e an	d Official Title	(Please type o	r print)		Sigi	nature		_	/				Date Signed	i
Dar	ı Jo	hnson, VP En	vironmental a	nd Technica	l Servic	es		2		2	pl			10/01/2014	1

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PROPOSED PLUGGING AND **ABANDONMENT** SUPPLEMENTAL MONITORING WELL M60-O





PROPOSED SUPPLEMENTAL MONITORING WELL M60-O ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

_	_	DA			United Sta		nvironme		Protection	Agency				
Ÿ	E	PA		PLU	IGGING		•	-		ENT PL	.AN			
Name	an	d Address of Fa	acility					Name	e and Add	ress of Owne	er/Operator			
		ce Copper Pro V Hunt Hwy, I		85132					rence Cop '5 W Hun		ence, AZ 85	132		
					Stat	te			C	ounty		Permit	Number	
		cate Well and Oction Plat - 640 A			Ar	izona	Į.			Pinal			6000001	
	-	7.1011 1 101 0 -10 7			Sur	face L	ocation l	Descr	ription					
		<del>                                     </del>	N 								Section 28			
		<u> </u>			Loc	ate we	ell in two	direc	ctions fror	n nearest lin	es of quarter	section and	drilling unit	
		- <del>-</del> i <del>-</del> ii -	− <b>├</b> ╶┼─├	_ <del>i</del>		face	10.00							
		i i i	l i i	i l						ine of quarte				
		<u> </u>	_		and	555				of quarter se	ection.			
w		<del>-i -i -i</del>	<del>-                                     </del>	E		_			HORIZATIO	ON			ACTIVITY	
		i i i	lii	i [			vidual Pe	ermit			L CLAS			
	_	<u> </u>				Area	a Permit				CLAS	SS II		
	<u> </u>	<del>-</del>	_			Rule	е				E	rine Dispos	al	
		i i i	lii	! 	N.	umbar	r of Wells	. 1			E	nhanced Re	covery	
	_	<u> </u>	<b></b>		IN.	umber	oi weiis	•	_		П	lydrocarbon	Storage	
				ļ 							CLAS	SS III		
			S		Lea	ise Nai	me NA			_	Well Numi	mer M61-L	BF	
		CA	SING AND TUE	BING RECORE	AFTER PLU	GGING	3			METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LEFT	T IN W	ELL (FT)	Н	OLE SIZE	☐ In	e Balance Me	thod		
14		36.71	20		20			20	)	T =	e Dump Baile			
4		8.9	435		435			9.8	86		e Two-Plug N			
4		2	200		200			9.8	86	1 -	her	ictiloa		
											IIGI			
		CEMENTING	TO PLUG AND	ABANDON D	ΛΤΛ·		PLUG #	#1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of H	lole or Pipe in					4	-	1 200 #2	1 200 #0	1 200 #4	1 200 #0	1 200 #0	1 200 #7
		Bottom of Tub					635	=						
		Cement To Be					44	_						
		olume To Be Pu		-3/			55	-						
		ed Top of Plug					0	=						
		d Top of Plug (i					NA							
		t. (Lb./Gal.)					15.4	=						
	_	ment or Other N	Material (Class	III)			V	=						
F			T ALL OPEN H		PERFORATE	D INTE		יו מאג	NTERVALS	WHERE CAS	SING WILL RE	VARIED (if	anv)	
		From	. ALL OF LIN II	CLE AND/OR	To	J 1 I	I	וו שייי	TILIVALO	From	JTO TYILL BE	AINED (II 6	To	
435				635										
433				033										
Estin	nate	d Cost to Plug	Wells											
		- abandonme												
Г							Certific	nati a	n n					
	att inf	ertify under the tachments and formation is tru ssibliity of fine	that, based on ie, accurate, ar	my inquiry o	of those indiv I am aware t	amine iduals	d and am immedia	n fami ately i	iliar with ti responsib	le for obtaini	ng the inforn	nation, I beli	eve that the	e
Name	an e	d Official Title	(Please type o	or print)		Sign	nature						Date Signed	1
					1 Corrie	Jaigr	iature				1			
Dan	Jol	hnson, VP En	vironmental a	nd Technica	1 Services				2	) and p			10/01/2014	4

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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PROPOSED PLUGGING AND **ABANDONMENT** PROPOSED DESIGN SUPPLEMENTAL MONITORING SUPPLEMENTAL MONITORING WELL M61-O WELL M61-O LOCKING WELL VAULT CONCRETE PAD 2.5 FOOT MONUMENT STICKUP 2 FOOT CASING STICKUP CASING REMOVED TO 5 FEET, BACKFILLED WITH NATVE MATERIAL 2 FEET 2 FEET 14-INCH MILD STEEL CASING 14-INCH MILD STEEL CASING 20 FEET -20 FEET 4-INCH NOMINAL DIAMETER MILD 4-INCH NOMINAL DIAMETER MILD STEEL BLANK CASING STEEL BLANK CASING TYPE V CEMENT GROUT 221 FEET APPROXIMATE STATIC WATER LEVEL 221 FEET APPROXIMATE STATIC WATER LEVEL - CEMENT SEAL (TYPE V) - CEMENT SEAL (TYPE V) 9 7/8-INCH BOREHOLE 9 7/8-INCH BOREHOLE 415 FEET -415 FEET -BENTONITE CHIPS / PELLETS BENTONITE CHIPS / PELLETS 425 FEET 425 FEET 435 FEET STEEL TO PVC ADAPTER 435 FEET - STEEL TO PVC ADAPTER 8-12 COLORADO SILICA SAND 8-12 COLORADO SILICA SAND TYPE V CEMENT GROUT 4-INCH NOMINAL DIAMETER SCHEDULE 80 4-INCH NOMINAL DIAMETER SCHEDULE 80 PVC SCREEN (0.020-INCH SLOTS) PVC SCREEN (0.020-INCH SLOTS) - PVC ENDCAP - PVC ENDCAP 645 FEET -645 FEET -

HALEY& ALDRICH

FLORENCE COPPER, INC. FLORENCE, ARIZONA

PROPOSED SUPPLEMENTAL MONITORING WELL M61-O ABANDONMENT DIAGRAM

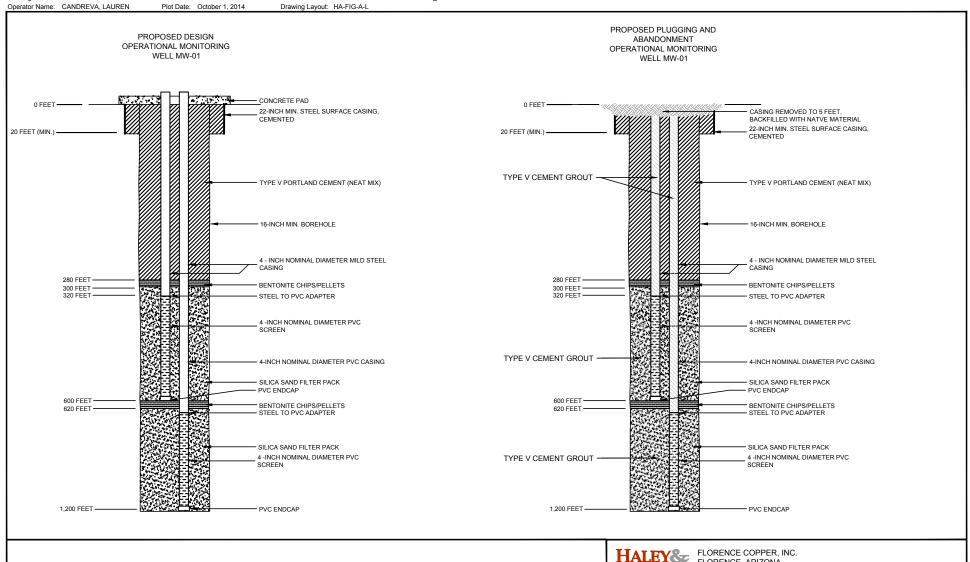
SCALE: NOT TO SCALE AUGUST 2014

9	F	PA			Unite	d States E Wa	invironme shingtor			Agency				
~				PLU	GGIN	IG AN	D AB	AND	ONM	IENT PL	.AN			
Name	an	d Address of Fa	acility					Name	and Add	ress of Owne	r/Operator			
		ce Copper Pro							nce Cop					
157	5 W	V Hunt Hwy, I	Florence, AZ	85132				1575	W Hun	t Hwy, Flor	ence, AZ 85	132		
	Loc	ate Well and O	utline Unit on			State				ounty		Permit	Number	
		tion Plat - 640 A				Arizona	l .			Pinal		AZ39	6000001	
			N			Surface L	ocation	Descri	otion			_		
						NE 1/4 0	of <u>SE</u> 1/	/4 of <u>N</u>	$\overline{\mathrm{W}}$ 1/4 of	<u>SW</u> 1/4 of	Section 28	Township	4S_ Range	9E
	<u> </u>	<u> </u>	_     -	_		Locate w	ell in two	direct	ions froi	m nearest lin	es of quarter	section and	drilling unit	
						Surface								
		<del>                                     </del>				Location	730 ft. f	rm (N/S	s) N L	ine of quarte	r section			
	<u> </u>	<u> </u>	_      -							of quarter se				
							TYPE OI	F AUTH	ORIZATIO	ON		WELL	ACTIVITY	
w				E		Indi	vidual Pe	ermit			CLAS	SS I		
	<u> </u>	╅╼┡-╅-	_			✓ Area	a Permit				CLA	SS II		
	<u> </u>	╵╶╵ ┽╼┝╼	_	_		Rul	е					Brine Dispos	al	
				I I		Number	r of Wells	. 1	1		E	nhanced Re	covery	
	<u> </u>	<u> </u>				Number	r or wells	5	1		F	lydrocarbon	Storage	
		! ! ! ! ! !		i l							CLA:	SS III		
			S			Lease Na	me NA				Well Num	ber MW-0	1	
		CA	SING AND TUE	ING RECORE	AFTER	PLUGGING	3			METH	OD OF EMPL	ACEMENT C	F CEMENT P	LUGS
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN W	ELL (FT)	но	LE SIZE	│ ✓ Th	e Balance Me	ethod		
22		72.3	20		20			28		T = "	e Dump Baile			
4		2	1800		1800			16			e Two-Plug N			
											o i wo i lug li her	iotiiou		
		CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG :	#1 P	LUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of H	lole or Pipe in v	which Plug Wil	l Be Placed (	inche		4	4						
Dept	h to	Bottom of Tub	ing or Drill Pip	e (ft			1200	6	00					
Sack	s of	Cement To Be	Used (each plน	ıg)			82	4						
Slurr	y Vo	olume To Be Pu	ımped (cu. ft.)				105	5	2					
		ed Top of Plug					0	0						
Meas	ure	d Top of Plug (i	f tagged ft.)				NA		A					
		t. (Lb./Gal.)					15.4		5.4					
Type	Cer	nent or Other M	laterial (Class	III)			Type V	V	ype V					
			T ALL OPEN H	OLE AND/OR	PERFOR	ATED INTE	ERVALS	AND IN	TERVALS	WHERE CAS	SING WILL BE	VARIED (if	any)	
		From			То					From			То	
320				600										
620				1200										
Ectin	aato	d Cost to Plug	Walle											
			vveiis											
φ12	2,00	U												
							Certific	catio	า					
	Lo	ertify under the	nonalty of law	, that I have r	oreonal	ly evamine	ne bne b	n famili	ar with t	ho informatio	n submitted	in this docu	mont and all	
1		achments and												
1		ormation is tru ssibliity of fine					ere are s	ignifica	nt pena	lties for subr	nitting false i	nformation,	including the	9
<u> </u>					O. K.	-							<b>5</b> / 5:	
Name	an	d Official Title	(Please type o	r print)		Sigi	nature				)		Date Signed	
								•	$\geq$	and policy			10/01/2014	4

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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Drawing Name: G:\PROJECTS\CURIS RESOURCES\38706-CURIS FEASIBILITY\DRAWINGS\JULY 2014 UIC APP\PTF PLUGGING\MW-01\_WELLDIAGRAM.DWG





FLORENCE, ARIZONA

PROPOSED OPERATIONAL MONITORING WELL MW-01 ABANDONMENT SCHEMATIC

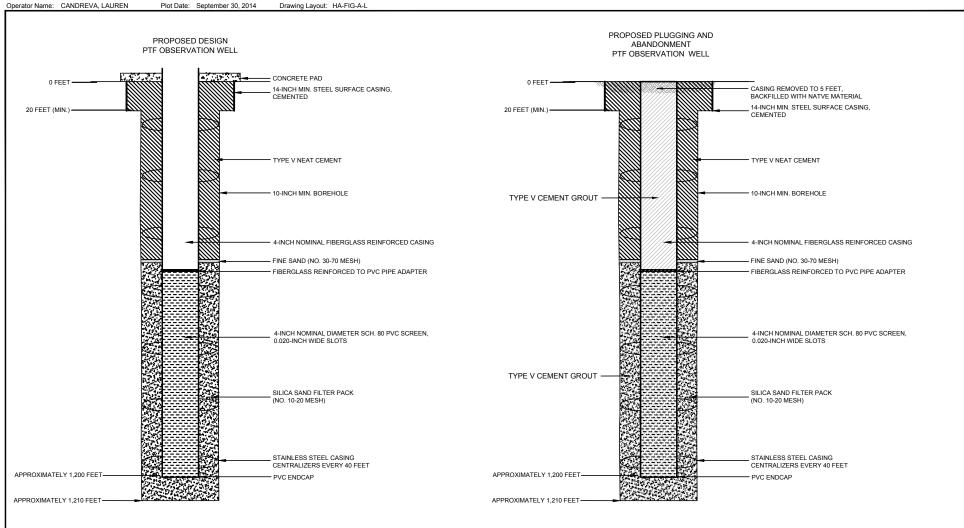
SCALE: NOT TO SCALE AUGUST 2014

0	Г	DΛ			United St	ates Environ Washing			n Agency					
V		PA		PLU	IGGING	_	-		<b>JENT</b>	PL	AN			
Nam	e an	d Address of Fa	acility				Na	me and Ad	dress of C	wne	r/Operator			
		ce Copper Pro V Hunt Hwy, I		85132				lorence Co			ence, AZ 85	132		
10	, ,	, 114110 11,, 1	10101100,112				l L			1010	, riec, rie 03			
		ate Well and O			Star A1	te rizona			<b>County</b> Pinal				Number 6000001	
	Sec	11011 Flat - 040 F			Sur	rface Location	n Des	scription						
		<del>                                     </del>	N .	<u> </u>	NE	E 1/4 of SW	1/4 o	of <u>NE</u> 1/4 o	f <u>SW</u> 1/4	of	Section 28	Township	4S Range	9E
	<u> </u>	<u> </u>	_	_ ‡ _	Loc	cate well in t	wo di	rections fro	m neares	t line	s of quarter	section and	drilling unit	
	L		_	_	Sur	rface								
					Loc	ation 1010 f	t. frm	(N/S) N	Line of qu	arter	section			
	-		┍┠╌╅╼╏		and	1040 ft. fro	m (E/V	V) <u>E</u> Lin	e of quarte	er se	ction.			
w				E		TYPE	OF A	UTHORIZAT	ION			WELL	ACTIVITY	
"		i i i	lii			Individual		nit			CLAS			
		<u> </u>	-	<u>_</u>		Area Perm	it				CLAS			
	<u></u>	<del>-</del> i - ii -	−⊩÷−⊦	$-\dotplus-$	L	Rule						rine Dispos		
	L.	<u> </u>			N	umber of We	ells 1					nhanced Re	-	
											CLAS	ydrocarbon	Storage	
			S			N.	A					0.01		
						se Name			1 -		Well Numl	per		
		T	SING AND TUE		_					ЛЕТН	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZ		WT (LB/FT)	TO BE PUT IN	N WELL (FT)		T IN WELL (F	<u> </u>	HOLE SIZE		The	e Balance Me	thod		
14"	_	27.66	510		20		_	20"	4 =	-	e Dump Baile			
4"	=	5.61			510			10"	4	1	e Two-Plug N	lethod		
4		2	690		690		=	10"	+ -	Oth	ner			
		CEMENTING	TO PLUG AND	ADANDON D	A.T.A.	DLU	G #1	PLUG #2	PLUG	<b>4</b> 2	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Sizo	of H	lole or Pipe in v				4	G#1	PLUG #2	PLUG	#3	PLUG #4	PLUG #5	PLUG #6	PLUG #1
		Bottom of Tub			mone.	1200	<u> </u>	1						
		Cement To Be				82								
Slur	ry Vo	olume To Be Pu	imped (cu. ft.)			105								
Calc	ulate	ed Top of Plug	(ft.)			0								
Meas	sure	d Top of Plug (i	f tagged ft.)			NA								
Slur	ry W	t. (Lb./Gal.)				15.4								
Туре	Cer	ment or Other N	laterial (Class	III)		V								
		LIS	T ALL OPEN H	OLE AND/OR	PERFORATE	D INTERVAL	S ANI	INTERVAL	S WHERE	CAS	ING WILL BE	VARIED (if a	iny)	
		From			То				From				То	
520	)			1200			4							
Ļ							4-							
							#							
Fetir	mate	d Cost to Plug	Walls											
		0 - abandonm												
Ψ1.	_,50	o uoungomm	circ costs											
							<i>c</i> .	4.						
						Certi	fica	tion						
		ertify under the												
		achments and formation is tru									-			•
		ssibliity of fine		•				The pain			. 3	,		
		d Official Title	(Blasse type o	nu muim4)		Signature							Data Signad	1
Nam	e an		(Flease type C	or print)		Signature				)			Date Signed	

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Drawing Name: G:PROJECTS\CURIS RESOURCES\38706-CURIS FEASIBILITY\DRAWINGS\JULY 2014 UIC APP\PTF PLUGGING\38706-300-000-DBSERVATION\_WELL\_CONSTRUCTION DIAGRAM.DWG





TEST FACILITY PROPOSED **OBSERVATION WELL** ABANDONMENT SCHEMATIC

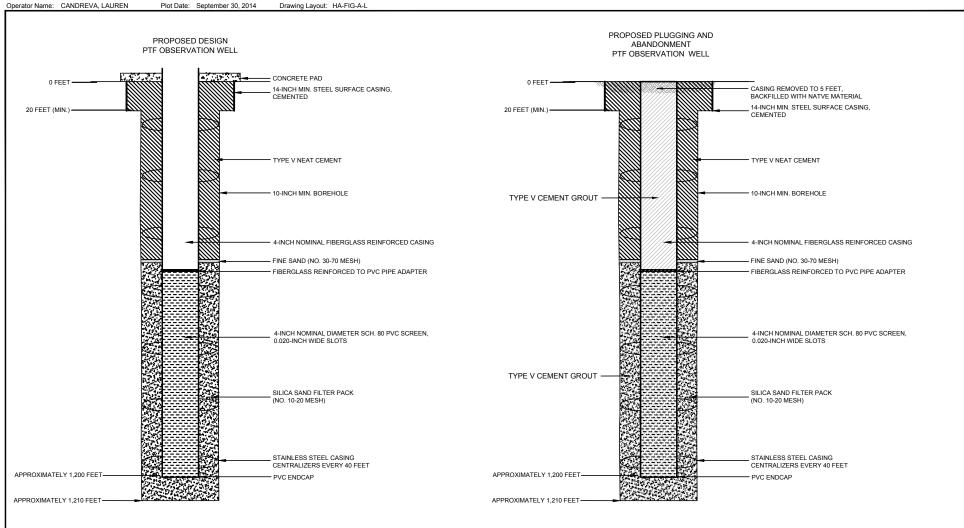
SCALE: NOT TO SCALE AUGUST 2014

Ω		DΛ			Uni	ted States I W	Environm ashingto			n Agency				
~		PA		F	LUGGI	NG AN	ID AB	ANI	OON	IENT PL	.AN			
Name	e an	d Address of	Facility					Name	and Add	dress of Own	er/Operator			
		ce Copper Pr						Flor	ence Co	pper, Inc.				
157	5 W	V Hunt Hwy,	, Florence, AZ	Z 85132				157:	5 W Hui	nt Hwy, Flor	ence, AZ 85	132		
	Loc	ate Well and	Outline Unit o	n		State				County			Number	
		tion Plat - 640				Arizon	a			Pinal		AZ39	6000001	
			N			Surface	Location	Descr	iption					
		<u> </u>		<del>                                     </del>	7	SE 1/4	of <u>SW</u> 1	/4 of <u>N</u>	NE 1/4 of	SW 1/4 of	Section 28	Township	4SRange	9E
	<u> </u>	<u> </u>	╌┼╌	<u> </u>	=	Locate v	vell in two	o direc	tions fro	m nearest lin	es of quarter	section and	drilling unit	
			L _	 	_	Surface								
				1 1		Location	1010 ft.	frm (N/	/s) <u>N</u> L	ine of quarte	r section			
	_	<u> </u>	$ \vdash$ $+$ $-$	<u> </u>	-	and <u>900</u>	ft. from	(E/W)	ELine	of quarter s	ection.			
				 			TYPE O	F AUTI	HORIZATI	ON		WELL	ACTIVITY	
w				1 1	E	Ind	ividual P	ermit			CLAS	SS I		
	_	<u> </u>	· — <del>                                   </del>	<u> </u>	-	✓ Are	a Permit				CLA	SS II		
	L.	•   	. <b>_ L</b> _ <u>L</u> _		_	Ru	le				☐ E	rine Dispos	al	
		$\top$						1	_			nhanced Re	covery	
	_	<u> </u>		<u> </u>	-	Numbe	er of Well	s <u> </u>			<sub>_</sub> _ ⊢	lydrocarbon	Storage	
											CLA:	SS III	•	
			S			Lease Na	na NA				Well Num	O-02		
		С	ASING AND TU	JBING RE	CORD AFTE	R PLUGGIN	G			MET	HOD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZ	E	WT (LB/FT)	TO BE PUT	IN WELL (	FT) TO B	E LEFT IN V	VELL (FT)	НС	DLE SIZE	⊢ □ Th	ne Balance Me	thod		
14"		27.66	20		20			20	"	<b>⊤</b> = ''	ie Balalice we ie Dump Baile			
4"	=	5.61	510		510			10'			•			
4"	$\equiv$	2	690		690			10			ne Two-Plug N :her	ietnoa		
			1000		1070			10		# 5	ner			
		CEMENTIN	IG TO PLUG AN	D ARANDO	ΟΝ ΠΑΤΑ:		PLUG	#1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of H		which Plug W				4	# ·	1 200 #2	1 200 #0	1 200 #4	1 200 #0	1 200 #0	1 200 #1
			ubing or Drill P		`		1200							
Sack	s of	Cement To B	e Used (each p	lug)			82	Ti						
Slurr	y Vo	olume To Be F	Pumped (cu. ft.	)			105							
Calcu	ulate	ed Top of Plug	g (ft.)				0							
Meas	ure	d Top of Plug	(if tagged ft.)				NA							
_		t. (Lb./Gal.)					15.4							
Туре	Cer	ment or Other	Material (Clas	s III)			V							
		L	IST ALL OPEN	HOLE ANI	D/OR PERFO	RATED INT	ERVALS	AND IN	ITERVAL	S WHERE CA	SING WILL BE	VARIED (if a	any)	
		From			T	0				From			То	
520				1200										
Estin	nate	d Cost to Plu	g Wells					•						
\$12	2,50	0 - abandonr	ment costs											
							Certifi	catio	'n					
							Certiii	Callo	ori					
			he penalty of la											
1			d that, based o rue, accurate, a		-			-	-		-			e
1			ne and impriso				ale s	y	wiit pelle	101 3401	ting laise i		oidaing till	•
Name	e an	d Official Title	e (Please type	or print)		Sin	nature				)	-	Date Signed	
			nvironmental		nical Sarvi			~	5	. 0	/			
Dan	ıJOl	ınıson, vr El	nvnonmental	and rech	inical servi	ces		-		mx p			10/01/2014	+

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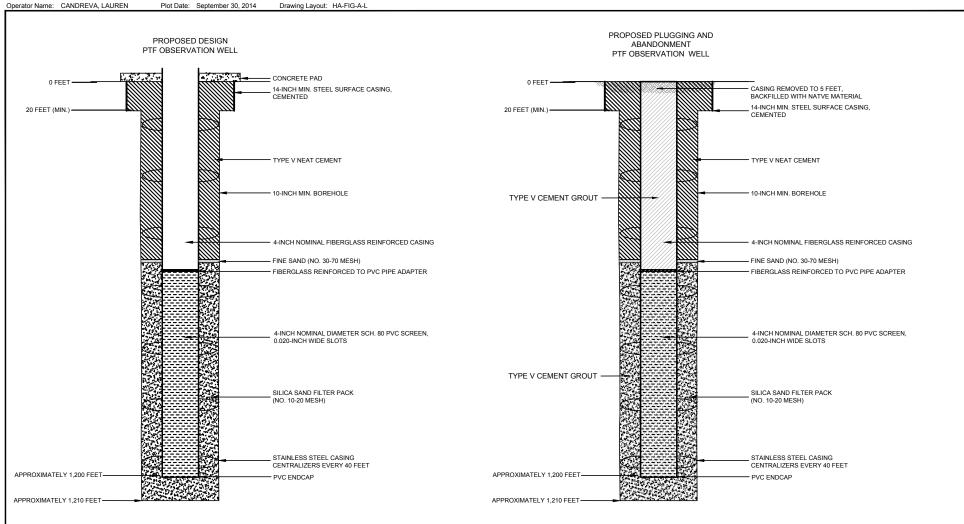
TEST FACILITY PROPOSED **OBSERVATION WELL** ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

		nvironmer ishington,	ntal Protection	on Agency								
<b>ŞEPA</b> PLUGGII		=		MENT PL	.AN							
Name and Address of Facility			Name and Ad	dress of Owne	r/Operator							
Florence Copper Project 1575 W Hunt Hwy, Florence, AZ 85132			Florence C 1575 W Hu	opper, Inc. ant Hwy, Flore	ence, AZ 85	132						
	State			County		Permit	Number					
Locate Well and Outline Unit on	Arizona			Pinal			5000001					
Section Plat - 640 Acres		ocation D	escription	1 111111		TIE57	3000001					
N				of <u>SW</u> 1/4 of	Section 28	Township	4S Range	9E				
	Locate w	ell in two	directions fr	om nearest line	es of quarter	section and	drilling unit					
	Surface						_					
		1150 es eur	m (N/C) N	Line of quarte	r acation							
	and 900_			ne of quarter se	ction.							
w	l		AUTHORIZAT	IION	l –		ACTIVITY					
		vidual Per	mit		CLAS							
		a Permit			CLAS							
┃ ├ <del>─</del> ┽─┝┿─┡┿╼┝┿╼│	Rule	е			<u></u> В	rine Disposa	al					
	Numbor	r of Wells	1		E	nhanced Re	covery					
┃ ├─┽─├─┽─ <b>┠</b> ─┽─├─┽─│	Nullibel	oi weiis į			П	ydrocarbon	Storage					
					✓ CLAS	S III						
s	Lease Na	me NA			Well Numb	O-03						
CASING AND TUBING RECORD AFTER	RPLUGGING	3		METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS				
SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE	LEFT IN W	ELL (FT)	HOLE SIZ	E V Th	e Balance Me	thod						
14" 27.66 20 20			20"	□ □ ты	e Dump Baile	r Method						
4" 5.61 510 510			10"		e Two-Plug M							
4"   2     690     690			10"		erwo-riagiw her	etilou						
			10		ilei							
CEMENTING TO PLUG AND ABANDON DATA:		PLUG #1	1 PLUG#	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7				
Size of Hole or Pipe in which Plug Will Be Placed (inche		4	i PLUG#	2 PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #1				
Depth to Bottom of Tubing or Drill Pipe (ft		1200										
Sacks of Cement To Be Used (each plug)		82										
· · · · · · · · · · · · · · · · · · ·												
Slurry Volume To Be Pumped (cu. ft.)		105										
Calculated Top of Plug (ft.)		0										
Measured Top of Plug (if tagged ft.)		NA										
Slurry Wt. (Lb./Gal.)		15.4										
Type Cement or Other Material (Class III)		V										
LIST ALL OPEN HOLE AND/OR PERFOI	RATED INTE	ERVALS AN	ND INTERVA	LS WHERE CAS	SING WILL BE	VARIED (if a	ny)					
From To				From			То					
520   1200												
Estimated Cost to Plug Wells												
\$12,500 - abandonment costs	-											
I certify under the penalty of law that I have persona attachments and that, based on my inquiry of those information is true, accurate, and complete. I am av possibliity of fine and imprisonment. (Ref. 40 CFR 1	lly examine individuals vare that th	immediat	familiar with	ible for obtaini	ng the inform	ation, I belie	eve that the	<b>)</b>				
Name and Official Title (Please type or print)	Sigr	nature					Date Signed	<u> </u>				
Dan Johnson, VP Environmental and Technical Service			5				10/01/2014					
Dan Johnson, VI Environmental and Teenmeal Service			- on	X /			10/01/2012	•				

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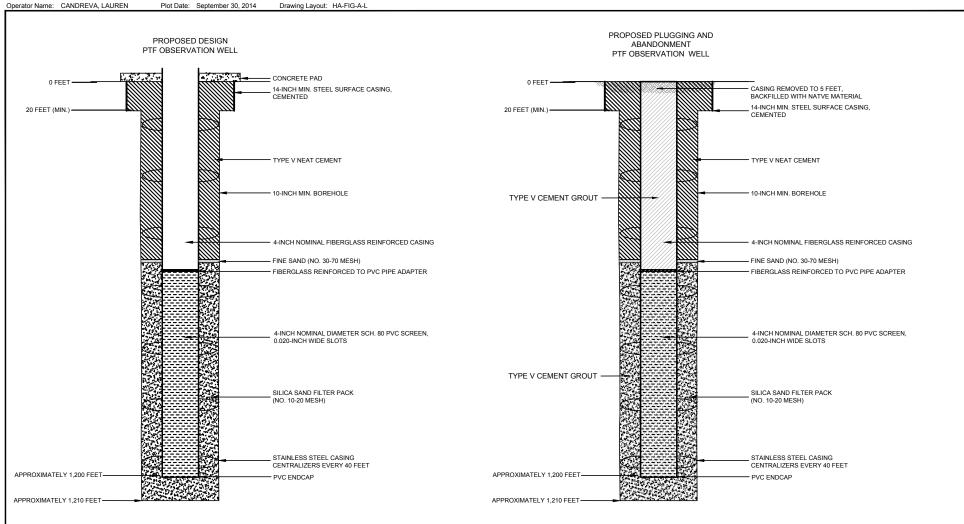
TEST FACILITY PROPOSED **OBSERVATION WELL** ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

_	_	<b>D</b> 4			United		nvironme		Protection	Agency				
Ÿ	E	PA		PLU	IGGIN		_			ENT PL	.AN			
Name	e an	d Address of F	acility					Nan	ne and Add	ress of Owne	r/Operator			
		ce Copper Pro V Hunt Hwy,	oject Florence, AZ	85132					orence Cop 75 W Hun		ence, AZ 85	132		
					8	State			С	ounty		Permit	Number	
		cate Well and ( ction Plat - 640	Outline Unit on			Arizona				Pinal		AZ39	6000001	
	000	otion i lat - 040			5	Surface L	ocation	Desc	ription					
			N			SW 1/4 c	of SW 1/	4 of	NE 1/4 of	SW 1/4 of	Section 28	Township	4S Range	9E
			l i i		-									
		<u> </u>			L	ocate w	ell in two	dire	ections fror	n nearest line	es of quarter	section and	drilling unit	
	_	+-	- <b>L</b> - i	- <del>i</del> -l		Surface	1225							
			lii	i l						ine of quarte				
		T T			а	nd 1115				of quarter se	ection.			
w	-	+ + +		E					THORIZATIO	ON			ACTIVITY	
							vidual Pe	ermit	İ		CLAS			
		$\top$				✓ Area					CLAS			
	$\vdash$	+	$-\mathbf{I}-+-$	-+-		Rule	9					rine Dispos		
	L	$\bot$ $\bot$ $\bot$ $\bot$	_ L _ L _ L			Number	of Wells	1				nhanced Re	-	
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		1 1 1					NT A				CLAS			
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		CA	ASING AND TUE	ING RECORE	AFTER P	LUGGING	3			METH	OD OF EMPL	ACEMENT C	F CEMENT P	LUGS
SIZ	CASING AND TUBING RECORD AFTER PLUGGING  METHOD OF EMPLACEMENT OF CEMENT PLUGS  SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE  V The Balance Method													
14"	_	27.66	20		20		(: :,		0"	<b>⊺</b> ≡ …				
4"	=	5.61	510		510			_	0"	_	e Dump Baile			
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			1070		070			╬	<u> </u>		her			
		CEMENTING	G TO PLUG AND	ARANDON DA	\ΤΛ·		PLUG:	#1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size	of H		which Plug Wil				4	71	F E G G #2	F E00 #3	7 LUG #4	F E 0 0 # 3	1 200 #0	7 LUG #1
			bing or Drill Pip				1200	=						
			Used (each plu	•			82	=						
			umped (cu. ft.)	<u> </u>			105	$\equiv$						
	-	ed Top of Plug					0	$\equiv$						
		d Top of Plug (					NA							
		/t. (Lb./Gal.)					15.4							
Туре	Cer	ment or Other I	Material (Class	III)			V							
		LIS	ST ALL OPEN H	OLE AND/OR	PERFORA	TED INTE	RVALS A	AND	INTERVALS	WHERE CAS	SING WILL BE	VARIED (if	any)	
		From			То					From			То	
520				1200										
Estin	nate	ed Cost to Plug	Wells											
\$12	2,50	00 - abandonm	nent costs											
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			l that, based on ue, accurate, ar					_	-		-			e
1			e and imprison				410 3	.g	pona	101 34511				-
Name	e an	d Official Title	(Please type o	or print)		Sign	nature						Date Signed	<u> </u>
			vironmental a		l Services		. (		5	. 0			10/01/2014	
			o minomai a	I comme	, 1003				/	- Ipi			10/01/2014	T

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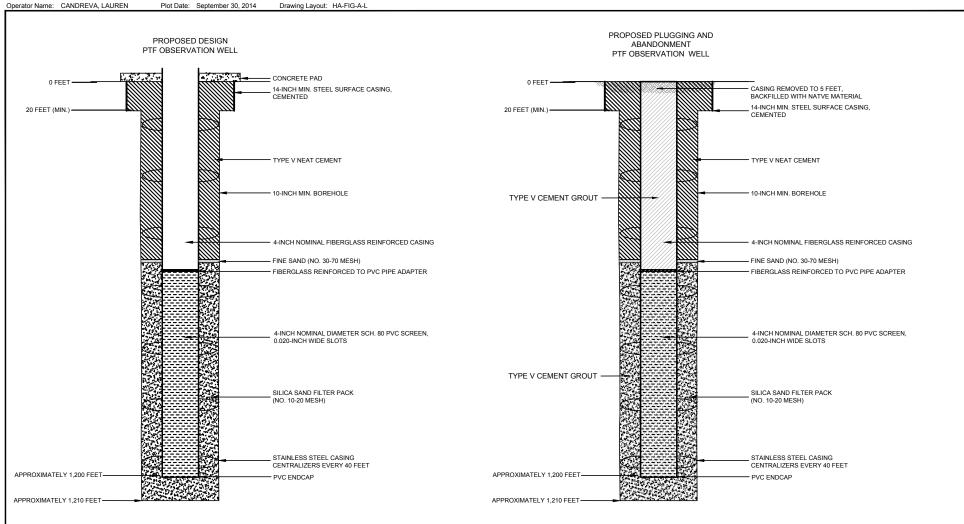
TEST FACILITY PROPOSED **OBSERVATION WELL** ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

Ω Γ	-DA				United S		vironm		Protectio 20460	n Ag	ency				
<b>%</b> E	PA.			PLU	IGGING	3 AND	) AB	ΑN	DON	MEI	NT PL	AN			
Name a	and Address	of Fac	cility					Nam	e and Ad	ldress	s of Owner	r/Operator			
	nce Copper		ect lorence, AZ	85132					rence Co			nce, AZ 85	132		
1373	vv 11uiit 11w	v y , 1 1	iorenee, 712	03132				137	75 W 11u	1111 11	wy, Piore	iice, AZ 63	132		
			tline Unit on			tate Arizona				Cour	_			Number 5000001	
3	ection Plat - 6	940 AC	res		Sı	urface Lo	cation	Desc	ription						
	1 1	1	N							of SW	V 1/4 of	Section 28	Township	4SRange	9E
	<u>.                                    </u>				Lo	ocate wel	II in two	dire	ctions fro	om ne	earest line	s of quarter	section and	drilling unit	
						urface						•		ū	
	- + -	ナー	-    -	-+-			155 ft f	frm (N	ı/s) N	l ine	of quarter	section			
<u> </u>		<u> </u>	-								quarter se				
					<u> </u>				HORIZAT		4	1	WELL	ACTIVITY	
w	1 1	İ		E	l	_	idual Pe					☐ CLAS			
<u>-</u>		ㅗ_	-	_	آا	✓ Area						CLAS			
	-					Rule							rine Dispos	al	
		1 -						1	_				nhanced Re		
<u> </u>		<u> </u>	-	_		Number	of Wells	s <u>l</u>					ydrocarbon	-	
		ļ										✓ CLAS	•	Ū	
			s	_	Le	ease Nam	NA NA					Well Numl	O-05		
		CAS	ING AND TUE	SING RECORD	AFTER PL	UGGING					METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE															
14"	27.66		20		20			20	)"		=	Dump Baile			
4"	5.61	■i	510		510			10	)"	ī	=	Two-Plug N			
4"	2		690		690			10	)"	Ħ	Oth	_	ictilou		
										Ħ	•ι				
	CEMEN	TING '	TO PLUG AND	ABANDON DA	ATA:		PLUG	#1	PLUG #2	2 F	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of	Hole or Pipe	in w	hich Plug Wi	I Be Placed (	inche		4								
Depth 1	to Bottom of	Tubii	ng or Drill Pip	oe (ft			1200								
Sacks	of Cement To	Be U	Ised (each plu	ıg)			82								
Slurry	Volume To B	e Pun	nped (cu. ft.)				105								
Calcula	ted Top of P	lug (f	t.)				0								
Measur	ed Top of Plu	ug (if	tagged ft.)				NA								
Slurry	Wt. (Lb./Gal.)	)					15.4								
Type C	ement or Oth	ner Ma	terial (Class	III)			V								
		LIST	ALL OPEN H	OLE AND/OR	PERFORAT	ED INTER	RVALS	AND I	NTERVAL	LS WI	HERE CAS	ING WILL BE	VARIED (if a	ıny)	
	Froi	m			То					Fr	rom			То	
520				1200											
Estima	ted Cost to P	Plug V	Vells												
\$12,5	500 - abando	onme	nt costs												
						С	ertifi	catio	on						
	cartify undo	r the	nenalty of law	v that I have p	nersonally o					the i	nformation	n suhmittad	in this docu	ment and all	
				my inquiry o											
i	nformation is	s true	, accurate, ar	nd complete.	I am aware	that the		_	-			-			•
F	ossibility of	rine a	and imprison	ment. (Ref. 4	U CFR 144.	o∠)									
Name a	and Official T	itle (	Please type o	print)		Signa	ature							Date Signed	
Dan J	ohnson, VP	Envi	ironmental a	nd Technica	l Services			7		- Q(				10/01/2014	1

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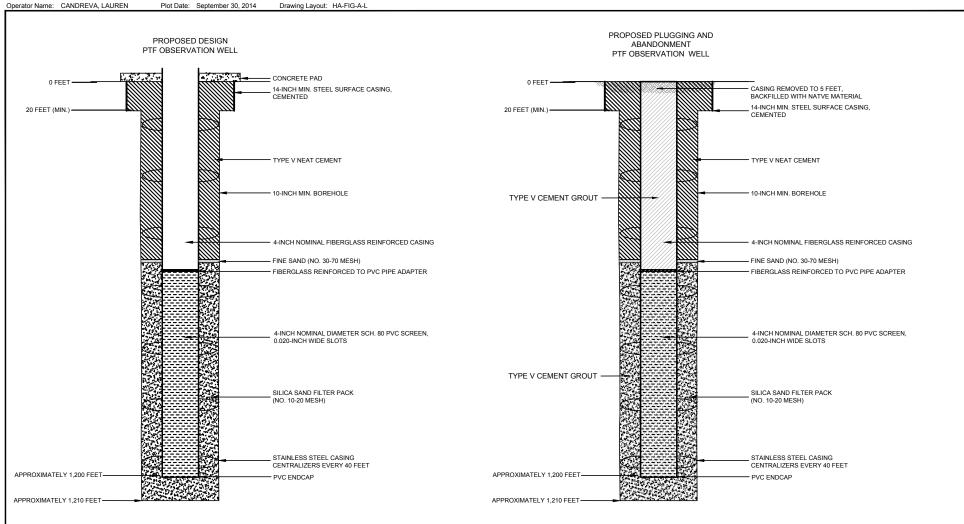
TEST FACILITY PROPOSED **OBSERVATION WELL** ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

0.504	Unit			ntal Protection	n Agency				
<b>⊗EPA</b>	PLUGGI		•		IENT PL	.AN			
Name and Address of Facility				Name and Add	dress of Owne	er/Operator			
Florence Copper Project 1575 W Hunt Hwy, Florence, AZ	85132			Florence Co 1575 W Hui	pper, Inc. nt Hwy, Flor	ence, AZ 85	132		
Locate Well and Outline Unit on		State			County		Permit	Number	
Section Plat - 640 Acres		Arizona	ı		Pinal		AZ39	6000001	
N I I I I				escription of <u>NE</u> 1/4 o	F SW 1/4 of	Section 28	Township	4S Range	9E
<b>┃</b> ├─┼─├─┼─ <b>┟</b> ─┼─┆	_   _			directions fro					
<b>┃ ├</b> ╶┼─├─┼─┠─┼─├	_   _	Surface							
	il		_	m (N/S) N	-				
	<u> </u>	and 1180		E/W) <u>E</u> Line		ection.	14/F1 1	ACTIVITY	
w	E	Indi	TYPE OF ividual Per		ON	CLAS		ACTIVITY	
<b>┃ ├</b> ┼─├┼─┠┼─┆			a Permit			CLAS			
	_	Rul				в	rine Dispos	al	
		Number	r of Wells	1		E	nhanced Re	covery	
<b>┃ ├─┼─├─┼─┠─┼</b> ─╎	- + -	Numbe	rorwells				lydrocarbon	Storage	
						CLAS	SS III		
S		Lease Na	me NA			Well Numb	oer O-06		
CASING AND TUE	BING RECORD AFTER	R PLUGGIN	G		METH	HOD OF EMPL	ACEMENT C	F CEMENT P	LUGS
SIZE WT (LB/FT) TO BE PUT IN		E LEFT IN W	/ELL (FT)	HOLE SIZE	. ✓ Th	e Balance Me	thod		
14" 27.66 20	20			20"	Ŭ □ Th	e Dump Baile	er Method		
4" 5.61 510	510			10"	Th	e Two-Plug M	lethod		
4" 3 690	690			10"	∐ Ut	her			
CEMENTING TO BLUC AND	ADANDON DATA:		PLUG #	1 PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
CEMENTING TO PLUG AND Size of Hole or Pipe in which Plug Wil			4	I PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Depth to Bottom of Tubing or Drill Pig	<u> </u>		1200						
Sacks of Cement To Be Used (each plu			82						
Slurry Volume To Be Pumped (cu. ft.)			105						
Calculated Top of Plug (ft.)			0						
Measured Top of Plug (if tagged ft.)			NA						
Slurry Wt. (Lb./Gal.)			15.4						
Type Cement or Other Material (Class			V						
LIST ALL OPEN H	OLE AND/OR PERFO		ERVALS A	ND INTERVAL	From	SING WILL BE	VARIED (if	any) To	
520	1200				FIOIII			10	
320	1200								
Estimated Cost to Plug Wells									
\$12,500 - abandonment costs									
			Certific	ation			-		
Locatify under the populty of lov	u that I have neveens				the informatio	n aubmittad i	in this decu	ment and all	
I certify under the penalty of lav attachments and that, based on information is true, accurate, ar possibliity of fine and imprison	my inquiry of those nd complete. I am av	individuals ware that th	s immediat	tely responsil	ole for obtaini	ing the inform	nation, I beli	eve that the	e
Name and Official Title <i>(Please type o</i>		-	nature			\		Date Signed	1
Dan Johnson, VP Environmental a			<					10/01/2014	
<u> </u>					mix pr			1 2, 32, 201	

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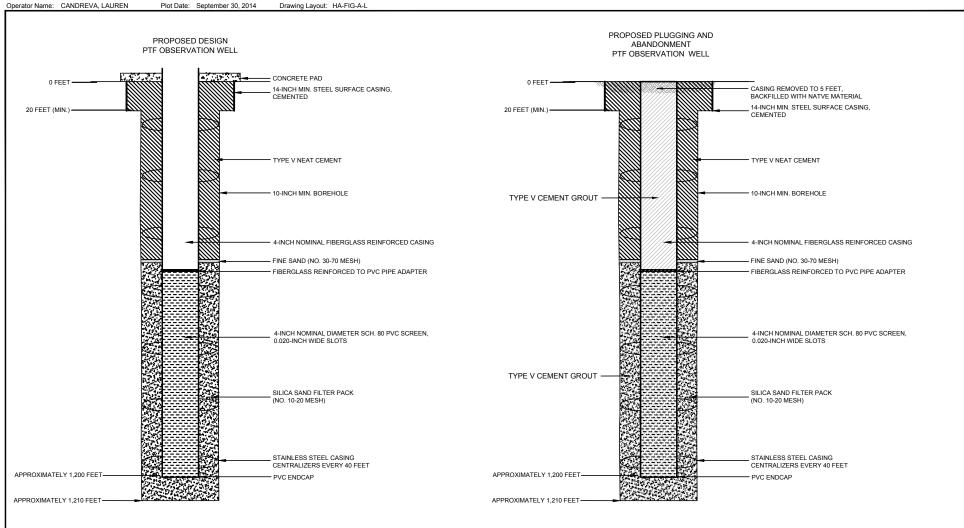
TEST FACILITY PROPOSED **OBSERVATION WELL** ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

.Ω.		PA			Unite	ed States E Wa	invironm shingto			n Agency				
V		ГА		PLU	JGGIN	NG AN	D AB	ANI	OON	MENT P	LAN			
Name	e an	d Address of F	acility					Name	and Add	ress of Ow	ner/Operator			
		ce Copper Pro						Flor	ence Co	pper, Inc.				
157	75 W	V Hunt Hwy,	Florence, AZ	85132				157	5 W Hur	nt Hwy, Fl	orence, AZ 8	5132		
		ata Wall and f	Outline Unit on			State				County		Permit	Number	
		tion Plat - 640	Outline Unit on Acres			Arizona	l			Pinal		AZ39	6000001	
			N			Surface L	ocation	Descr	iption					
						NW 1/4	of <u>SW</u> 1	/4 of N	VE 1/4 of	SW 1/4 of	Section 28	Township	4S Range	9E
	L.	$\bot$ $\bot$ $\bot$ $\bot$				Locate w	ell in two	direc	tions fro	m nearest l	ines of quarte	r section and	l drilling unit	
						Surface								
	<b>-</b>	++	- $  +$ $  $				940 #	frm (N	(e) N I	ine of quar	tor section			
		<u> </u>								of quarter				
						and 1120		_	HORIZATI		section.	WELL	ACTIVITY	
w		+ + +		E		Indi	vidual P		IONIZATI	OI1		SSI	AOTIVITI	
	<u> </u>	<u> </u>					a Permit	•••••				SS II		
		•				Rul						Brine Dispos	al	
		+		_ + _					_			Enhanced Re		
		<u> </u>	- <b>- - - - - - -</b>			Number	r of Well:	s <u>l</u>				Hydrocarbor	•	
												SS III		
			S				NA					0.07		
						Lease Na	me			_	Well Nun	iber 0-07		
	CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT PLUGS													
SIZ	Е	WT (LB/FT)	TO BE PUT II	WELL (FT)	то ве	LEFT IN W	ELL (FT)	НС	OLE SIZE	· ·	The Balance M	ethod		
14"		27.66	20		20			20	"	] 📑	Γhe Dump Bai	er Method		
4"		5.61	510		510			10	"		The Two-Plug	Method		
4"		2	690		690			10	"		Other			
		CEMENTIN	G TO PLUG AND	ABANDON D	ATA:		PLUG	#1	PLUG #2	PLUG #	3 PLUG #4	PLUG #5	PLUG #6	PLUG #7
			which Plug Wi		(inche		4							
			bing or Drill Pi				1200							
			Used (each plu	ıg)			82							
_	•		umped (cu. ft.)				105	_						
		ed Top of Plug					0	_			_			
		d Top of Plug	(if tagged ft.)				NA	-						
	_	t. (Lb./Gal.)	Material (Class	Ш			15.4	=#				1		
Туре	CCI		,		DEDEGE	ATED INT	V	AND IN	ITED\/AL	0 MULEDE 0	4 OIN O WILL D	E WARDIED (IS		
		From	ST ALL OPEN H	OLE AND/OR	To		ERVALS	AND IN	HERVAL	From	ASING WILL B	E VARIED (IT	To	
520		FIOIII		1200	10					FIOIII			10	
320				1200										
Estin	nate	d Cost to Plug	g Wells											
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1			l that, based on ue, accurate, ar					-	-		-			<u> </u>
Ī			ue, accurate, an e and imprison				ere are s	orgrilli (	ant pena	es 101 SU	omitting raise	miormation,	menualing the	<del>-</del>
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			vironmental a		l Servic									
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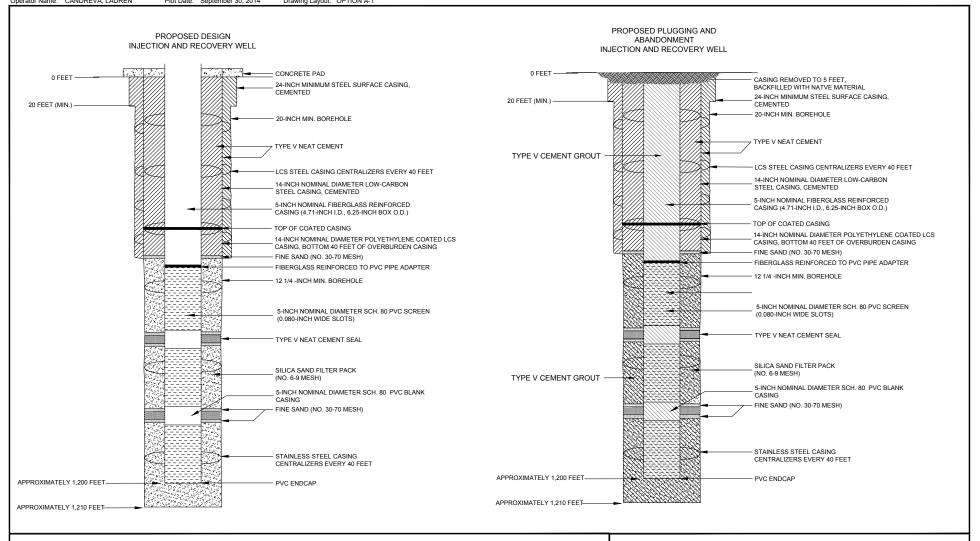
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.Ω.Ε	PA			United			ental Protecti , DC 20460	ion A	Agency				
	:ra		PLU	JGGIN	G AN	D AB	ANDON	ME	ENT PL	AN			
Name a	nd Address of F	acility					Name and A	ddre	ess of Owne	r/Operator			
Flore	nce Copper Pro	ject					Florence C	Copp	per, Inc.				
1575	W Hunt Hwy,	Florence, AZ	85132				1575 W H	lunt	Hwy, Flore	ence, AZ 85	132		
1.	ocate Well and C	Outline Unit on		:	State				ounty			Number	
	ection Plat - 640				Arizona	l .		Pi	inal		AZ39	5000001	
		N I					Description 4 of <u>NE</u> 1/4	of _	SW 1/4 of	Section 28	Township	4S Range	9E
_	_	Ļ_Ļ			Locate w	ell in two	directions f	rom	nearest line	s of quarter	section and	drilling unit	
					Surface					•		•	
	- + -  - + -		-+-			940 ft fr	m (N/S) N	Lin	ne of quarter	section			
_	-	_     -							of quarter se				
				F	unu		AUTHORIZA			1	WELL	ACTIVITY	
w			E		Indi	vidual Pe				CLAS			
_		_      -	_			a Permit				CLAS			
	•				Rule						rine Dispos	al	
	- + -  - + -						1				nhanced Re		
	-	_    -	_		Number	r of Wells	1				ydrocarbon	=	
	!!!!		!							CLAS		Otorugo	
		S	<del></del>			NA					D 01		
	-				Lease Na				l	Well Numb	per		
SIZE		SING AND TUE		1			HOLE SI	75	_	OD OF EMPL		r CEWIENT P	LUG3
	WT (LB/FT)	TO BE PUT IN	WELL (FI)	+	EFT IN W	ELL (FI)	28"	<u> </u>		e Balance Me			
24"	94.62	490		20				_	1 =	e Dump Baile			
14"	45.68			490			20"	_		e Two-Plug M			
5"	5.61	510		510			14"		<u></u> ✓ Oth	ner- 20" bor		•	•
5	3	690		690		T	12.25"				PLUG #5	ent method	1
Size of	Hole or Pipe in	TO PLUG AND				PLUG #	f1 PLUG	#2	PLUG #3	PLUG #4 1	PLUG #5	PLUG #6	PLUG #7
	to Bottom of Tub			,		1200		=					
-	of Cement To Be					128							
Slurry \	Volume To Be Pu	umped (cu. ft.)	<u> </u>			163							
Calcula	ited Top of Plug	(ft.)				0							
	ed Top of Plug (					NA		$\equiv$					
	Wt. (Lb./Gal.)					15.4							
Type C	ement or Other N	Material (Class	III)			V							
	LIS	ST ALL OPEN H	OLE AND/OR	PERFORA	ATED INTE	RVALS A	ND INTERV	ALS I	WHERE CAS	ING WILL BE	VARIED (if a	ıny)	
	From			То					From			То	
520			720										
760			960										
1000			1200										
Estima	ted Cost to Plug	Wells											
\$12,5	600 - abandonm	ent costs											
					(	Certific	ation						
ı	certify under the	e penalty of law	that I have i	personally	examine	d and am	familiar wit	h the	e informatio	n submitted i	n this docu	nent and all	
а	ttachments and	that, based on	my inquiry o	of those in	dividuals	immedia	itely respons	sible	for obtaini	ng the inform	ation, I beli	eve that the	
	nformation is tru oossibliity of fine					ere are si	ignificant pe	nalti	ies for subm	nitting false i	nformation,	including the	9
	and Official Title					aatura					1	Data Signa	<u> </u>
				1 Com::-		nature						Date Signed	
Dan J	ohnson, VP En	vironmental ai	na recnnica	a Services	8		2	-	2 pm			10/01/2014	+

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Operator Name: CANDREVA, LAUREN Plot Date: September 30, 2014 Drawing Layout: OPTION A-1





TYPICAL PROPOSED INJECTION AND RECOVERY WELL ABANDONMENT SCHEMATIC

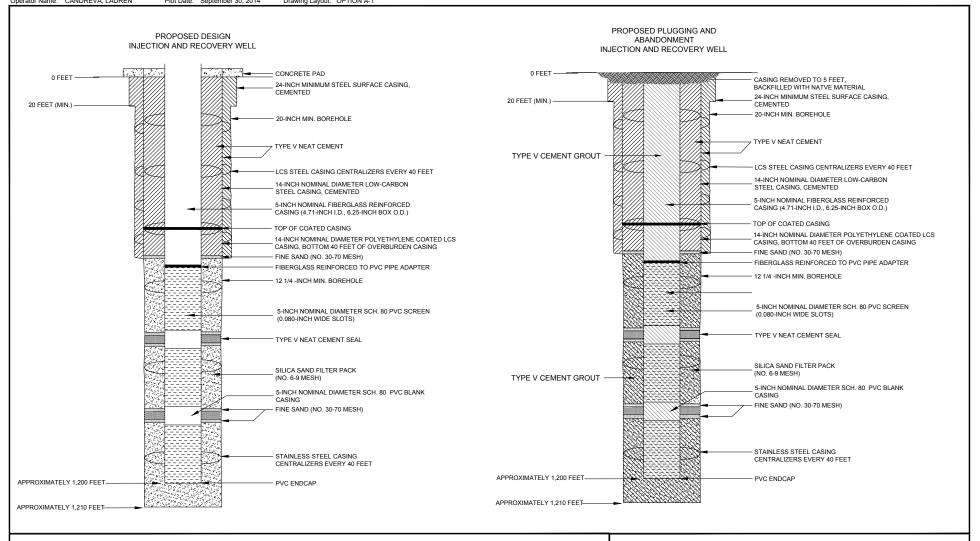
SCALE: NOT TO SCALE AUGUST 2014

0.504	Unite		nvironmen	ntal Protection	Agency							
<b>⊗EPA</b>	PLUGGIN		• ,		ENT PL	AN						
Name and Address of Facility			Ņ	Name and Add	ress of Owne	r/Operator						
Florence Copper Project 1575 W Hunt Hwy, Florence, AZ	85132			Florence Cop 1575 W Hun		ence, AZ 85	132					
		State	1 1	С	ounty		Permit	Number				
Locate Well and Outline Unit on Section Plat - 640 Acres		Arizona	L	F	inal		AZ39	6000001				
N	<u> </u>		ocation Door	escription of <u>NE</u> 1/4 of	SW 1/4 of	Section 28	Township	4S_ Range	9E			
	- <del> </del> -   - <del> </del> -   - <del> </del> -	Surface Location	1015 ft. from (E	directions from (N/S) $N$ Living E Line	ne of quarter	r section		drilling unit				
w	E	☐ Indi	I YPE OF A		N.	CLAS		ACTIVITY				
<b>l</b>			viduai Per a Permit	mit		CLAS						
<b> </b>		Rule					rine Dispos	al				
				1			nhanced Re					
┨ <b>╶├</b> ─┼─├─┽─┠─┽─╎		Number	r of Wells	1		□н	ydrocarbon	Storage				
						✓ CLAS	S III					
S		Lease Nai	me NA			Well Numb	R-02					
CASING AND TUE	SING RECORD AFTER	PLUGGING	3		METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS			
SIZE WT (LB/FT) TO BE PUT IN	WELL (FT) TO BE	LEFT IN W	ELL (FT)	HOLE SIZE	✓ The	e Balance Me	thod					
28" 94.62 20	20			28"	Th	e Dump Baile	r Method					
14"   45.68   490	490			20"		e Two-Plug M						
5" 5.61 510	510			14"	<u> </u> Otl	ner -20" bore		-	using the			
5" 3 690	690			12.25"		1	lacement					
CEMENTING TO PLUG AND			PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7			
Size of Hole or Pipe in which Plug Will Depth to Bottom of Tubing or Drill Pip			1200									
Sacks of Cement To Be Used (each plu	•		128									
Slurry Volume To Be Pumped (cu. ft.)	·9/		163									
Calculated Top of Plug (ft.)			0									
Measured Top of Plug (if tagged ft.)			NA									
Slurry Wt. (Lb./Gal.)			15.4									
Type Cement or Other Material (Class	III)		V									
LIST ALL OPEN H	OLE AND/OR PERFOR	ATED INTE	ERVALS AN	ND INTERVALS	WHERE CAS	ING WILL BE	VARIED (if a	any)				
From	То				From			То				
520	720											
760	960											
1000	1200											
Fetimated Cost to Plug Walls												
\$12,500 - abandonment costs	mated Cost to Plug Wells 2,500 - abandonment costs											
I certify under the penalty of law attachments and that, based on information is true, accurate, ar possibliity of fine and imprison Name and Official Title ( <i>Please type o</i>	my inquiry of those in ad complete. I am awa ment. (Ref. 40 CFR 14	y examine ndividuals are that the	immediat ere are sig	familiar with the	e for obtaini	ng the inform	ation, I beli	eve that the				
			nature (	0								
Dan Johnson, VP Environmental a	na Technical Service	es		/ m	X P			10/01/2014	1			

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Operator Name: CANDREVA, LAUREN Plot Date: September 30, 2014 Drawing Layout: OPTION A-1





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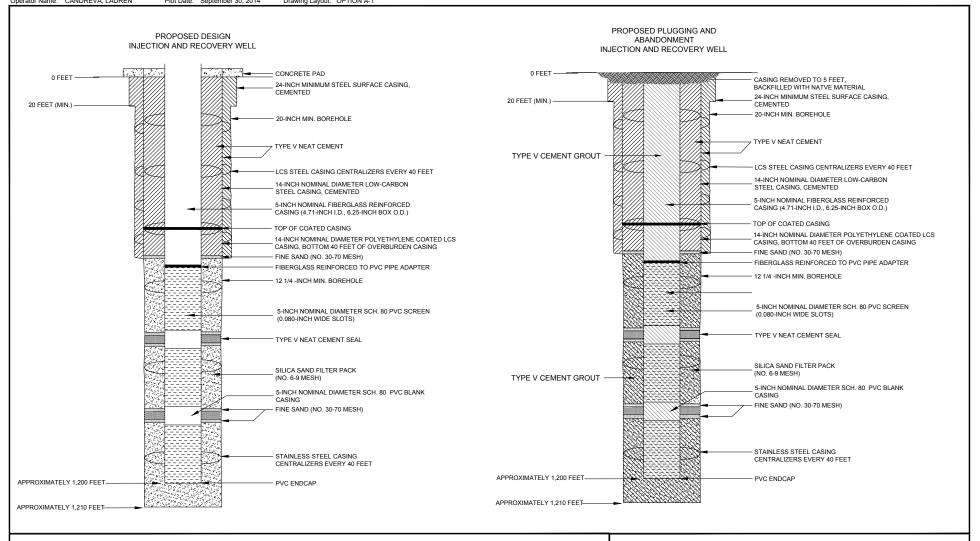
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•	_	DΛ			Unite	d States E Wa	nvironm			on A	gency				
V	E	PA		PLU	IGGIN		_			ME	ENT PL	AN			
Nam	e an	d Address of F	acility					Nan	ne and Ad	dre	ss of Owner	r/Operator			
		ce Copper Pro V Hunt Hwy, l		85132					orence Co 75 W Hu			ence, AZ 85	132		
						State				Cou	unty		Permit	Number	
		cate Well and Oction Plat - 640 A				Arizona	Į.			Pir	nal		AZ39	6000001	
		511011111111111111111111111111111111111				Surface L	ocation	Desc	ription						
			N 			SE 1/4 o	of SW 1	/4 of	NE 1/4 c	of S	SW 1/4 of	Section 28	Township	4S Range	9E
	_	+				Locate w	ell in two	dire	ections fro	om ı	nearest line	s of quarter	section and	drilling unit	
			_	_		Surface									
				 		Location	1080 ft. f	rm (l	N/S) N	Line	e of quarter	section			
	_	+	— <del> -  -  -  -</del>  -			and <u>900</u>	ft. from	(E/W)	<u>E</u> Lin	e of	f quarter se	ction.			
			1 1				TYPE O	F AU	THORIZAT	TION	I		WELL	ACTIVITY	
w				E		Indi	vidual Pe	ermit	l			CLAS	SS I		
	_	+	— <del> -  -  -  -</del>  -			✓ Area	a Permit					CLA	SS II		
			_	_		Rule	е					E	Brine Dispos	al	
				!				1				□ E	nhanced Re	covery	
	_	+	<b>-⊩</b> -├	_		Numbei	r of Wells	S <u>1</u>				□ F	lydrocarbon	Storage	
												CLA	SS III	_	
			S			Lease Na	me NA					Well Num	ber R-03		
CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CEMENT P												LUGS			
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN W	ELL (FT)	F	HOLE SIZ	Е	✓ The	Balance Me	thod		
24"		94.62	20		20			2	8"		The	Dump Baile	er Method		
14"		45.68	490		490			2	0"		=	· e Two-Plug N			
5"		5.61	510		510			1	4"		Oth	-			
5"		3	690		690			1	2.25"		<u>—</u>				
		CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG	#1	PLUG #2	2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
		Hole or Pipe in			inche		5								
		Bottom of Tub		•			1200	_		4					
		Cement To Be		ıg)			128	_		4					
	•	olume To Be Pu	,				163			4					
		ed Top of Plug					0	_		4					
-		d Top of Plug (i	if tagged ft.)				NA	_		4					
	-	/t. (Lb./Gal.)					15.4	_		_					
Туре	Ce	ment or Other N	•	•			V								
			ST ALL OPEN H	OLE AND/OR		ATED INTE	ERVALS /	AND	INTERVAL			ING WILL BE	VARIED (if a		
		From			То					F	From			То	
520				720											
760				960				H							
100	00			1200											
			M/-II-												
	timated Cost to Plug Wells 12,500 - abandonment costs														
							Certifi	cati	on						
	at in	ertify under the tachments and formation is tru sssibliity of fine	that, based on ie, accurate, ar	my inquiry o	of those i I am aw	ndividuals are that th	immedi	ately	responsi	ible	for obtaining	ng the inforn	nation, I beli	eve that the	•
Nam	e an	nd Official Title	(Please type of	or print)		Siar	nature							Date Signed	<u> </u>
		hnson, VP En			l Service			·			Q John			10/01/2014	

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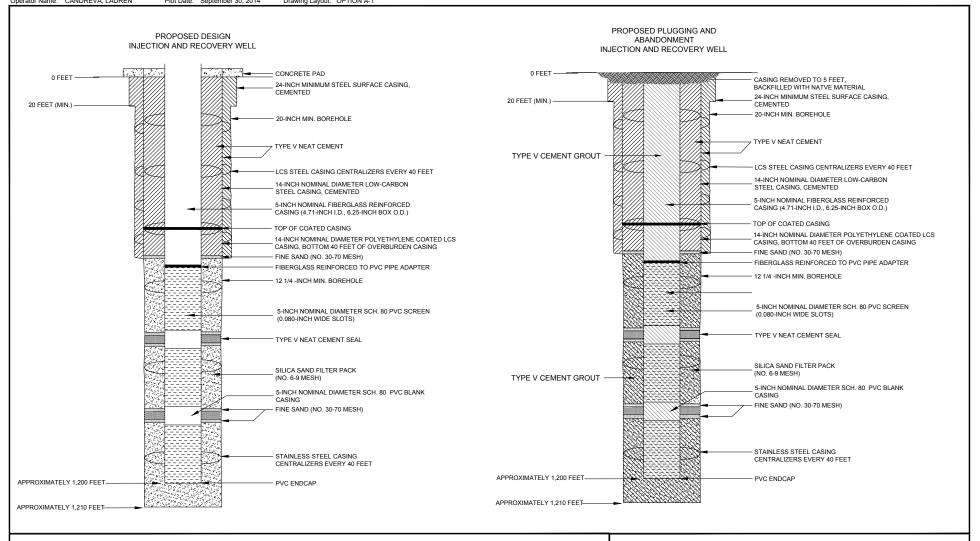
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3	Ε	PA					shingtor	n, DC	20460					
~~				PLU	IGGIN	G AN	D AB	AN	DONN	MENT P	LAN			
		d Address of F									ner/Operator			
		ce Copper Pro V Hunt Hwy, l		85132						opper, Inc.	orence, AZ 8	5132		
137	<i>J</i> •	v Hunt Hwy, i	i iorenee, 712	03132	1			13		•	nence, AZ o			
		ate Well and O				State Arizona				County Pinal			Number 6000001	
	Sec	tion Plat - 640 A	Acres		_	Surface L		Dasc		1 IIIdi		AL3)	0000001	
			N							£ (5337) 414 -4	Section 28		15 p	0F
					-									
		<u> </u>					ell in two	dire	ctions fro	om nearest l	ines of quarte	r section and	l drilling unit	
	_	<del>-</del> i ii	$ \vdash$ $+$ $ \vdash$			Surface	1160		NT					
		<b></b>								Line of quar e of quarter				
						and 973			THORIZAT		section.	WELL	ACTIVITY	
W		+ + +		E		Indi	vidual Pe			ioit	☐ cL4	SSI	AOIIVIII	
	_	<u> </u>	_				Permit					SS II		
						Rule	е					Brine Dispos	al	
		T — F T ·					r of Wells	1				Enhanced Re	covery	
	_		╼┠╌┽╼╏			Number	r of Wells	S <u> </u>				Hydrocarbor	Storage	
											CL/	SS III		
			S			Lease Na	me NA				Well Nun	nber R-04		
		CA	SING AND TUE	ING RECORE	AFTER I	PLUGGING	3			МЕ	THOD OF EMP	LACEMENT C	F CEMENT P	LUGS
SIZ	SIZE WT (LB/FT) TO BE PUT IN WELL (FT) TO BE LEFT IN WELL (FT) HOLE SIZE													
24"		94.62	20	<u> </u>	20			2	8"	_ =	The Dump Bai			
14"		45.68	490		490			20	0"	_	The Two-Plug			
5"		5.61	510		510			1.	4"		Other- 20" bo		be grouted	d using
5"		3	690		690			1:	2.25"		the plug	displacem	ent method	b
		CEMENTING	TO PLUG AND	ABANDON DA	ATA:		PLUG	#1	PLUG #2	PLUG #	PLUG #4	PLUG #5	PLUG #6	PLUG #7
		lole or Pipe in			inche		5							
		Bottom of Tub					1200	_						
		Cement To Be		ig)			128	_						
	_	olume To Be Pu ed Top of Plug					163	=						
		d Top of Plug (i	` ,				NA	_				1		
		t. (Lb./Gal.)					15.4	=				1		
Туре	Cer	ment or Other N	Material (Class	III)			V	$\equiv$						
		LIS	T ALL OPEN H	OLE AND/OR	PERFOR	ATED INTE	RVALS A	AND	INTERVAL	S WHERE C	ASING WILL B	E VARIED (if	any)	
		From			То					From			То	
520				720										
760				960										
100	0			1200										
Fatim	2010	d Coot to Diva	Walla											
	timated Cost to Plug Wells 12,500 - abandonment costs													
	Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)													
Name	e an	d Official Title	(Please type o	or print)		Siar	nature						Date Signed	ı
		hnson, VP En			l Service				-	0			10/01/2014	
		,						1		× /~			10,01,201	•

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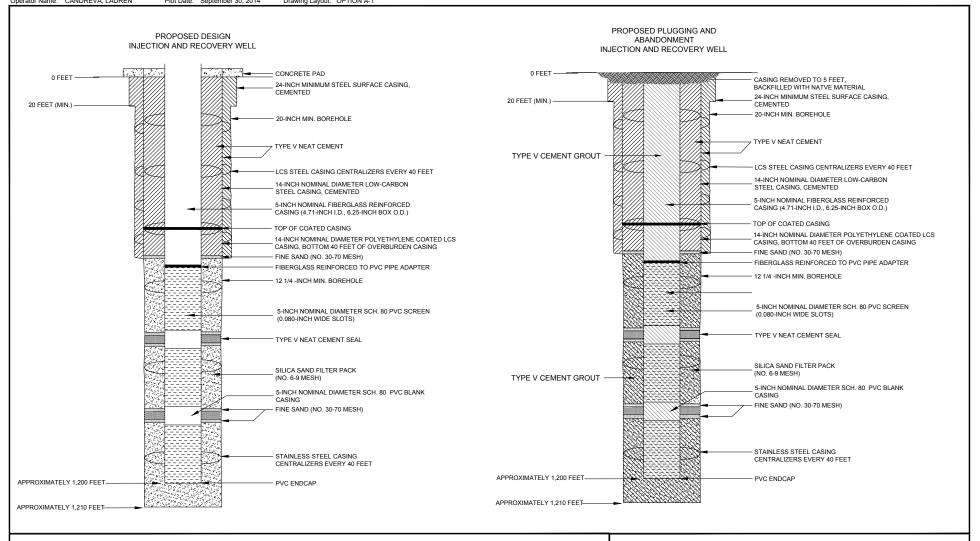
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^ F	<b>D4</b>			United St		vironment shington, [	al Protection	Agency				
≎EI	PA		PLU	JGGING		•		IENT PL	AN			
Name and	d Address of Fac	cility				N:	ame and Add	ress of Owne	r/Operator			
	ce Copper Proje V Hunt Hwy, Fl		85132				Torence Cop 575 W Hun	oper, Inc. t Hwy, Flore	ence, AZ 85	132		
				Star	to		l c	ounty		Permit	Number	
	ate Well and Oution Plat - 640 Ac				rizona			Pinal			6000001	
360	tion Flat - 640 Ac			Sur	face Lo	ocation De	scription					
	<del>                                     </del>	N 	<u> </u>					SW 1/4 of				
-	<del>                                     </del>		- <del></del>	Loc	cate we	II in two di	rections fror	n nearest line	es of quarter	section and	drilling unit	
<u> </u> -	<del>-i</del> ii	- <del> -</del>			face	020	7.7					
L.	$oldsymbol{\perp}$ $oldsymbol{\perp}$ $oldsymbol{\perp}$ $oldsymbol{\perp}$	_						ine of quarter				
	T - I - T -		$\overline{}$	and				of quarter se	ction.	14/21		
w —	+ + +		E		7	TYPE OF A idual Pern	UTHORIZATIO	ON	CLAS		ACTIVITY	
		_			」 indiv 1 Area		ш		CLAS			
					Rule					rine Dispos	al	
-	<u> </u>	-    -	- † -							nhanced Re		
<u> </u>	<b>ヰ゠</b> Ŀヰ゠	╌┠╌┽╼┆		N	umber	of Wells 1				ydrocarbon	•	
			!						✓ CLAS	-	Otorage	
	1 1 1	S	<u> </u>	Lea	ıse Nan	ne NA			Well Numb	D 05		
	CAS	ING AND TUE	BING RECORI	D AFTER PLU	GGING			METH	OD OF EMPL	ACEMENT O	F CEMENT P	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LEF	T IN WE	LL (FT)	HOLE SIZE	✓ The	e Balance Me	thod		
24"	94.62	20		20			28"	☐ Th	e Dump Baile	er Method		
14"	45.68	490		490			20"	☐ Th	e Two-Plug M	lethod		
5"	5.61	510		510			14"		ner-20" bore		be grouted	using
5"	3	690		690			12.25"		the plug	displacem	ent metho	d
	CEMENTING	TO PLUG AND	ABANDON D	ATA:		PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Size of H	lole or Pipe in w	hich Plug Wil	II Be Placed (	(inche		5						
	Bottom of Tubir	<u> </u>	•			1200						
	Cement To Be U		ng)			128						
	olume To Be Pun					163						
	ed Top of Plug (f					0						
	d Top of Plug (if	tagged ft.)				NA						
	t. (Lb./Gal.)	.4	ш			15.4						
Type Cen	nent or Other Ma	•				V		14/11555 046		\(\( \)	,	
		ALL OPEN H	OLE AND/OR	To	DINIE	RVALS AN	DINTERVALS		SING WILL BE	VARIED (IT &	To	
520	From		720	10				From			10	
760												
1000			1200									
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Estimate	d Cost to Plug V	Vells										
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atta info	ertify under the packments and the formation is true ssibliity of fine a	nat, based on , accurate, ar	my inquiry on the my inquiry of the my inquiry o	of those indiv I am aware t	amined iduals that the	immediate	ımiliar with tl ly responsib	le for obtaini	ng the inform	ation, I beli	eve that the	Đ
Name and	d Official Title (	Please type o	or print)		Sign	ature				I	Date Signed	i
	hnson, VP Envi			al Services			$\sum$	2 John			10/01/2014	

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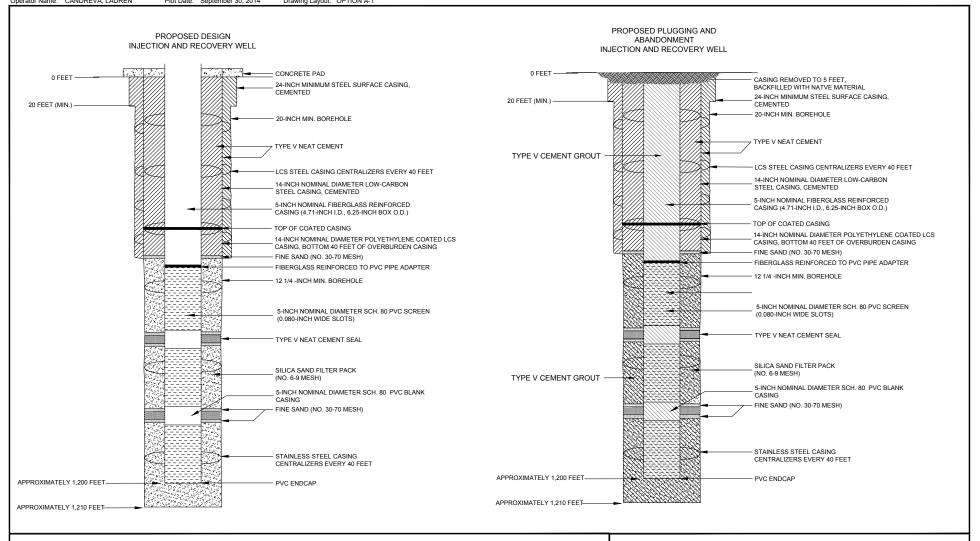
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≎E	ΡΔ			United \$			ntal Protec , DC 20460	tion	Agency				
VL			PLU	IGGING	ANI	D AB	ANDOI	M	ENT PL	AN			
Name an	nd Address of Fa	cility					Name and	Addr	ess of Owne	r/Operator			
	ce Copper Proj W Hunt Hwy, F		85132				Florence 1575 W			ence, AZ 85	132		
				l e4	tate				ounty			Number	
	cate Well and O				Arizona				inal			5000001	
Sec	ction Plat - 640 A	cres		Sı	urface Lo	ocation [	Description	-					
	<u> </u>	N	<u> </u>				•	4 of	SW 1/4 of	Section 28	Township	4S Range	9E
	++- ++-	-    -   -    -   -    -	- <del> </del> -   - <del> </del> -   - <del> </del> -	Si	urface ocation $\frac{1}{1120}$ t	1150 ft. fr ft. from (l	m (N/S) N	Lii	ne of quarter of quarter se			drilling unit	
w –	1 1		E		_	/idual Pe				CLAS			
<u> </u>	4	<b>-  -                                  </b>	_	li	✓ Area					CLAS			
				j l	Rule	•				в	rine Disposa	al	
	TT-						1			E	nhanced Re	covery	
	+	-┣-┼-┞			Number	of Wells	1			□н	ydrocarbon	Storage	
										CLAS	SS III		
		S		Le	ease Nan	ne NA				Well Numb	ner R-06		
	CAS	SING AND TUE	ING RECORE	AFTER PL	UGGING	1			METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS
SIZE	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LE	FT IN WE	ELL (FT)	HOLE S	IZE	✓ The	Balance Me	thod		
24"	94.62	20		20			28"		The	Dump Baile	er Method		
14"	45.68	490		490			20"		The	Two-Plug M	lethod		
5"	5.61	510		510			14"		<b>∠</b> Oth	er 20" bore		•	•
5"	3	690		690			12.25"			the plug	displacem	ent method	t
		TO PLUG AND				PLUG #	1 PLUG	#2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
	Hole or Pipe in v			inche		5							
•	Bottom of Tubi		•			1200		_					
	f Cement To Be I	` .	ig)			128 163		_					
	ed Top of Plug (	,				0							
	ed Top of Plug (if	•				NA		_					
	Vt. (Lb./Gal.)					15.4							
	ment or Other M	aterial (Class	III)			V							
	LIS	T ALL OPEN H	OLE AND/OR	PERFORAT	ED INTE		ND INTER\	'ALS	WHERE CAS	ING WILL BE	VARIED (if a	iny)	
	From			То					From		-	То	
520			750										
760			960										
1000			1200										
	mated Cost to Plug Wells 2,500 - abandonment costs												
att inf	Certification  I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)												
Name an	nd Official Title	(Please type o	r print)		Sign	ature						Date Signed	l
Dan Jo	hnson, VP Env	rironmental a	nd Technica	1 Services			2	)	2			10/01/2014	4

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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Operator Name: CANDREVA, LAUREN Plot Date: September 30, 2014 Drawing Layout: OPTION A-1





TYPICAL PROPOSED INJECTION AND RECOVERY WELL ABANDONMENT SCHEMATIC

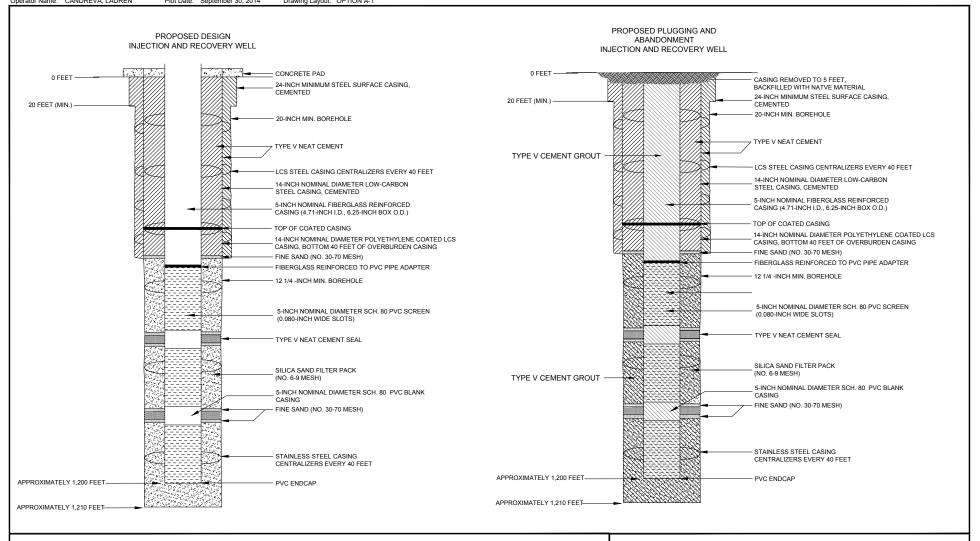
SCALE: NOT TO SCALE AUGUST 2014

0.504	Unite		nvironmen ishington,	tal Protection	Agency							
<b>⊗EPA</b>	PLUGGII		•		ENT PL	AN						
Name and Address of Facility			N	lame and Addı	ress of Owne	r/Operator						
Florence Copper Project 1575 W Hunt Hwy, Florence, AZ	85132			Florence Cop 1575 W Hunt		ence, AZ 85	132					
		State		C	ounty		Permit	Number				
Locate Well and Outline Unit on Section Plat - 640 Acres		Arizona	l	P	inal		AZ39	6000001				
N	<u> </u>		ocation De	escription of $\overline{ ext{NE}}$ 1/4 of	SW 1/4 of	Section 28	Township	4S_ Range	9E			
	- <del> </del> -   - <del> </del> -   - <del> </del> -	Surface Location	1080 ft. frn ft. from (E/	lirections from $ \begin{array}{c c} \text{(N/S)} & N & \text{Line} \\ \text{(W)} & E & \text{Line} \end{array} $	ne of quarter	section						
w	E	l		AUTHORIZATIO	ON			ACTIVITY				
			vidual Peri	mit		CLAS						
		Rule	a Permit					-1				
	-+-						rine Dispos nhanced Re					
<b>Ⅰ</b> ┝┵╌└┵╌┣┵╌┆	_	Number	r of Wells	1			ydrocarbon	-				
1   ! ! ! 1 ! !	ļ					CLAS	-	Otorage				
s		Lease Na	me NA			Well Numb	D 07					
CASING AND TUE	SING RECORD AFTER	PLUGGING	3		METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS			
SIZE WT (LB/FT) TO BE PUT IN	WELL (FT) TO BE	LEFT IN W	ELL (FT)	HOLE SIZE	The	e Balance Me	thod					
24"   94.62   20	20			28"		e Dump Baile						
14" 45.68 490	490			20"	_ =	e Two-Plug M						
5" 5.61 510	510			14"		ner-20" bore		be grouted	using			
5" 3 690	690			12.25"				ent method	•			
CEMENTING TO PLUG AND	ABANDON DATA:		PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7			
Size of Hole or Pipe in which Plug Wi	I Be Placed (inche		5									
Depth to Bottom of Tubing or Drill Pip	oe (ft		1200									
Sacks of Cement To Be Used (each plu	ıg)		128									
Slurry Volume To Be Pumped (cu. ft.)			163									
Calculated Top of Plug (ft.)			0									
Measured Top of Plug (if tagged ft.)			NA									
Slurry Wt. (Lb./Gal.)			15.4									
Type Cement or Other Material (Class	III)		V									
LIST ALL OPEN H	OLE AND/OR PERFOR	RATED INTE	ERVALS AN	ID INTERVALS	WHERE CAS	ING WILL BE	VARIED (if a	any)				
From	То	1			From			То				
520	720											
760	960											
1000	1200											
\$12,500 - abandonment costs	mated Cost to Plug Wells 2,500 - abandonment costs											
I certify under the penalty of lav attachments and that, based on information is true, accurate, ar possibility of fine and imprison	my inquiry of those nd complete. I am aw ment. (Ref. 40 CFR 1	lly examine individuals vare that th	immediate ere are sig	amiliar with th	e for obtaini	ng the inform	ation, I beli	eve that the including the				
Name and Official Title (Please type of			nature					Date Signed				
Dan Johnson, VP Environmental a	nd Technical Servic	es	-	ک ا	Poly			10/01/2014	4			

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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Operator Name: CANDREVA, LAUREN Plot Date: September 30, 2014 Drawing Layout: OPTION A-1





TYPICAL PROPOSED INJECTION AND RECOVERY WELL ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

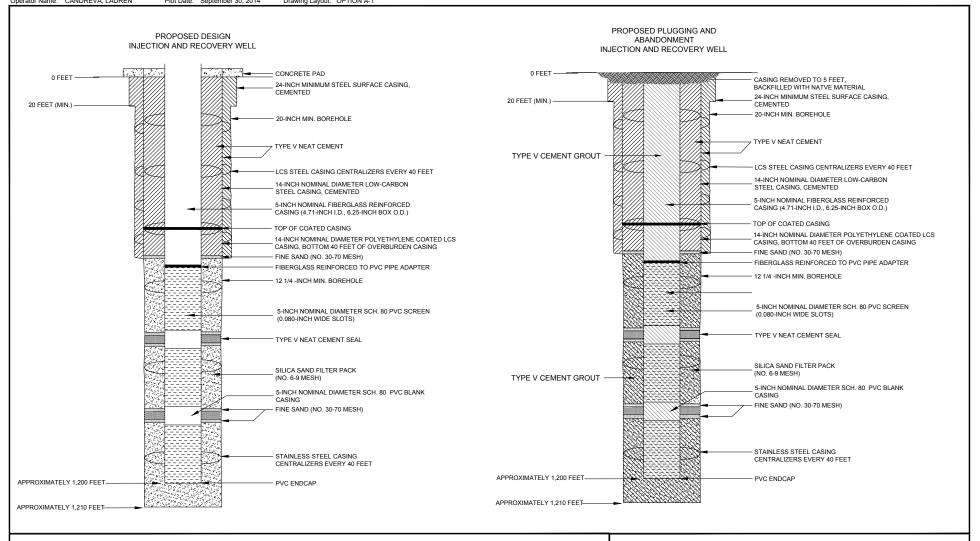
_	United States Environmental Protection Agency Washington, DC 20460																
Ÿ	PLUGGING AND ABANDONMENT PLAN																
Name	an	d Address of	Facility				1	Name and A									
Flo	ren	ce Copper P		85132				Florence C	Copp	er, Inc.	ence, AZ 851	132					
	_				Stat	te			Permit	Permit Number							
Locate Well and Outline Unit on Section Plat - 640 Acres							L .				AZ396000001						
	Jec	lion Fiat - 04			Sur	face L	ocation D	escription									
			N 	1		SW 1/4 of SW 1/4 of NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E  ocate well in two directions from nearest lines of quarter section and drilling unit											
		<u> </u>					eii in two d	airections tr	rom	nearest line	s of quarter	section and	arilling unit				
	_	+-	├ <b>-  </b> i	$-\dot{+}-$		Surface											
		$\bot$ $\bot$ $\bot$ $\bot$	L <b>L</b>			ocation 1010 ft. frm (N/S) N Line of quarter section nd 1120 ft. from (E/W) E Line of quarter section.											
					and	1120		AUTHORIZA			ction.	WELL	ACTIVITY				
w				E		Indi	vidual Per		HON	•	CLAS		ACTIVITY				
		<u> </u>	└ <b>└</b>			_	Permit				CLAS						
		•				Rule						rine Dispos	al				
	_	+	- <b> </b> -+-	-+-	-							nhanced Re					
	<u> </u>	<u> </u>	└ <b>└</b>		N	umber	r of Wells	1				ydrocarbon	-				
											CLAS	•	Otorugo				
			S		Lea	se Na	MA NA				Well Numb	D 00					
		(	CASING AND TU	BING RECORI						METHOD OF EMPLACEMENT OF CEMENT PLUGS							
SIZ	E	WT (LB/FT	) TO BE PUT I	N WELL (FT)	TO BE LEFT	T IN W	ELL (FT)	HOLE SIZ	ΖE	V The	Balance Me	thad					
24"		94.62	20		20			28"		=	Dump Baile						
14"	一	45.68	490		490			20"	$\equiv$	The Two-Plug Method							
5"		5.61	510		510			14"	$\exists$		er -20" bore		be arouted	Lusina			
5"		3	690		690			12.25"	$\exists$	0.1			nent metho	-			
		CEMENTI	NG TO PLUG AND	ABANDON DA	ATA:		PLUG #1	PLUG#	‡2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7			
Size	of H	lole or Pipe i	n which Plug Wi	II Be Placed (	inche		5										
			ubing or Drill Pi		•		1200										
Sack	s of	Cement To E	Be Used (each pl	ug)			128										
Slurr	y Vo	olume To Be	Pumped (cu. ft.)				163										
Calcu	ulate	ed Top of Plu	ıg (ft.)				0										
Meas	ure	d Top of Plug	g (if tagged ft.)				NA										
Slurr	y W	t. (Lb./Gal.)					15.4										
Type	Cer	ment or Othe	r Material (Class	III)			V										
		L	LIST ALL OPEN H	IOLE AND/OR	PERFORATE	D INTE	ERVALS AN	ND INTERVA	LS	WHERE CAS	ING WILL BE	VARIED (if	any)				
		From			То					From			То				
520				720													
760				960													
100	0			1200													
Estin	nate	d Cost to Plu	ug Wells														
\$12	2,50	0 - abandon	ment costs														
						(	Certifica	ation									
	att inf	tachments an	the penalty of law nd that, based or true, accurate, a ne and imprison	n my inquiry on the complete.	of those indiv I am aware t	amine iduals that th	d and am	familiar with	ible	for obtaining	ng the inform	ation, I beli	eve that the	)			
Name	a an	d Official Titl	le (Please type	or print)		Siar	nature						Date Signed	1			
					1 Comica-	Sigr	lature										
Dan	JO.	unson, VP E	Environmental a	iiid Technica	i Services			$\mathcal{L}$		2			10/01/2014	+			

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Drawing Name: G:PROJECTS\CURIS RESOURCES\38706-CURIS FEASIBILITY\DRAWINGS\JULY 2014 UIC APP\PTF PLUGGING\38706-300-000-INJECTION\_RECOVERY WELL\_3SCREENS.DWG

Operator Name: CANDREVA, LAUREN Plot Date: September 30, 2014 Drawing Layout: OPTION A-1





TYPICAL PROPOSED INJECTION AND RECOVERY WELL ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

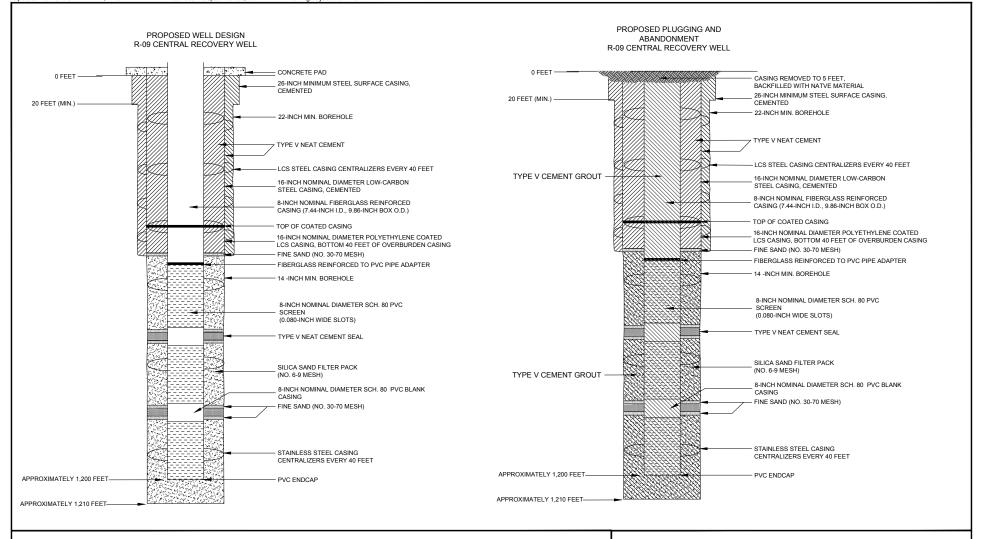
Δ.Ε	'DA			United St			al Protection	n Agency							
₿E	:PA		PLU	JGGING		•		IENT	PL	AN					
Name a	nd Address of Fa	acility				Na	me and Add	dress of C	Owner	/Operator					
	nce Copper Proj W Hunt Hwy, I		85132				Torence Co 575 W Hui			nce, AZ 85	132				
				Sta	ite			County			Permit	Number			
-	cate Well and O ction Plat - 640 A			A	rizona			Pinal			AZ396000001				
_	<del>                                     </del>	N			Surface Location Description										
		_	_	Lor Sur Lor	Locate well in two directions from nearest lines of quarter section and drilling unit  Surface  Location 1080 ft. frm (N/S) N Line of quarter section and 1135 ft. from (E/W) E Line of quarter section.										
w –			<del>-                                    </del>		_		UTHORIZATI	ON				ACTIVITY			
					☑ Individu ✓ Area Per		iit			CLAS					
	•		!	li	Rule	rmit					rine Dispos	al			
	+		_ + _			1					nhanced Re				
	· <del>                                    </del>	╼┠╾┼╼╏		N	lumber of \	Wells <u>1</u>				П	ydrocarbon	Storage			
					Г					✓ CLAS	SS III				
		S		Lea	ase Name	NA				Well Numl	R-09				
	CA	SING AND TUE	BING RECOR	D AFTER PLU	IGGING			ı	METH	OD OF EMPL	ACEMENT O	F CEMENT PI	LUGS		
SIZE	WT (LB/FT)	TO BE PUT IN	N WELL (FT)	TO BE LEF	T IN WELL	(FT)	HOLE SIZE		The	Balance Me	thod				
26"	102.6	20		20			28"		The	Dump Baile	er Method				
16"	52.6	490		490			20"		The	Two-Plug N	lethod				
8"	8.2	510		510			14"	4 [	Oth	er					
8"	8	690		690			12.25"		ı		4 PLUC#6 PLUC#6 PLUC#3				
		TO PLUG AND				LUG #1	PLUG #2	PLUG	¥3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
	Hole or Pipe in v			(inche	8	100		-	_						
-	Bottom of Tub				32	200	1								
	olume To Be Pu		ug)		41										
_	ted Top of Plug (				0	1.7	1								
	ed Top of Plug (i				N.	A									
	Vt. (Lb./Gal.)				15										
	ment or Other M	laterial (Class	III)		V										
	LIS	T ALL OPEN H	OLE AND/OR	R PERFORATE	D INTERV	ALS AND	INTERVAL	S WHERE	CAS	ING WILL BE	VARIED (if a	ıny)			
	From			То				From				То			
520			720												
760			960			<u> </u>									
1000			1200												
Estimat	ed Cost to Plug	Wells													
	00 - abandonm														
					_	.15-									
at in	certify under the ttachments and oformation is tru ossibliity of fine	that, based on e, accurate, ar	my inquiry on the my inquiry of the my inquiry o	of those indiv	camined an viduals imr that there a	mediatel	miliar with t ly responsib	le for ob	tainin	g the inform	ation, I beli	eve that the	•		
Name a	nd Official Title	(Please type o	or print)		Signatu	re						Date Signed			
Dan Jo	ohnson, VP Env	vironmental a	nd Technica	al Services		·	-	0	/			10/01/2014	1		

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Drawing Name: G:\PROJECTS\CURIS RESOURCES\38706-CURIS FEASIBILITY\DRAWINGS\JULY 2014 UIC APP\PTF PLUGGING\38706-300-000-CENTER-RECOVERY WELL\_3SCREENS.DWG

Operator Name: CANDREVA, LAUREN Plot Date: September 30, 2014 Drawing Layout: OPTION A-1





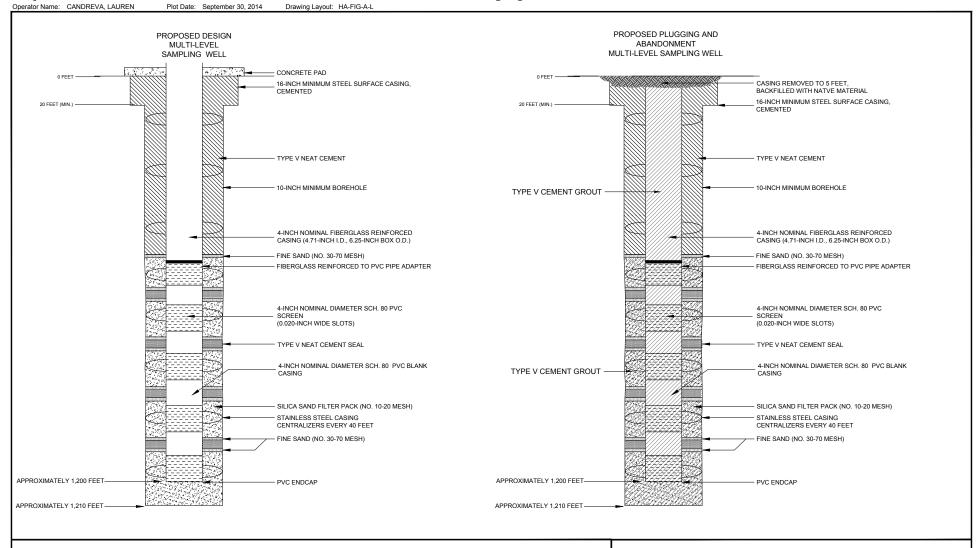
R-09 CENTRAL RECOVERY PROPOSED WELL ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

_	United States Environmental Protection Agency Washington, DC 20460  PLUGGING AND ABANDONMENT PLAN																
Ÿ																	
Name	e an	d Address of Fa	acility					Name and Address of Owner/Operator									
Flo	reno	ce Copper Proj V Hunt Hwy, F	ject	85132				Flo	orence Co	pper,	Inc.	nce, AZ 8	5132				
						State County Peri						Permi	it Number				
		ate Well and O tion Plat - 640 A			Arizona Pinal Az					AZ3	96000001						
	-	Alon Flat 0407				Surface Location Description											
			N			SW 1/4 of SW 1/4 of NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E											
		i i i	lii	i l	<u> </u>	Locate well in two directions from nearest lines of quarter section and drilling unit											
		T- -T-	_ <del>                                    </del>	<u> </u>			en in two	Juire	ections iro	III IIea	arest iiile	S of quarte	r Section an	a arming unit			
	_	+	$ \vdash$ $+$ $ \vdash$	-+-		Surface											
		<b>⊥</b> _ L				Location 1045 ft. frm (N/S) N Line of quarter section and 1045 ft. from (E/W) E Line of quarter section.											
					-	and 1043	A OTIVITY										
w		+ + +		E					THORIZATI	ON				ACTIVITY			
		҆҆҆҆҆҆҆҆҆҆҆҆҆				✓ Area	vidual P	ermi	ι				ASS II				
		.				Rule							ເວຣ ແ Brine Dispo	a l			
	$\vdash$	+	<b>-  -</b> +  -	-+-									Enhanced R				
	_		_			Number	of Well:	s <u>1</u>					Ennanceu k Hydrocarbo	-			
												CLA	-	1 Storage			
			S				NΔ							1			
			ŭ			Lease Name NA					Well Number WB-01						
CASING AND TUBING RECORD AFTER PLUGGING METHOD OF EMPLACEMENT OF CE													OF CEMENT P	LUGS			
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE L	EFT IN W	FT IN WELL (FT) HOLE SIZE					Balance M	ethod				
16"		31.66	20		20	20"					The Dump Bailer Method  The Two-Plug Method						
4"	一	5.61	510		510	10"											
4"	$\equiv$	2	690		690	10"				i	Oth	_	cuiou				
											0						
		CEMENTING	TO PLUG AND	ABANDON D	ATA:	PLUG			PLUG #2	PL	LUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7		
Size	of H	lole or Pipe in v					4						1	1			
Depti	h to	Bottom of Tub	ing or Drill Pip	e (ft			1200			╗							
Sack	s of	Cement To Be	Used (each plu	ıg)			82										
Slurr	y Vo	olume To Be Pu	ımped (cu. ft.)				105										
Calcu	ulate	ed Top of Plug	(ft.)				0										
Meas	ure	d Top of Plug (i	f tagged ft.)				NA										
Slurr	y W	t. (Lb./Gal.)					15.4										
Type	Cer	ment or Other M	laterial (Class	III)			V										
		LIS	T ALL OPEN H	OLE AND/OR	PERFORA	ATED INTE	RVALS	AND	INTERVAL	S WHE	ERE CAS	ING WILL B	E VARIED (if	any)			
		From			То					Fro	m			То			
525				600				112	25				1200				
675				750													
825				900													
975				1050													
		d Cost to Plug															
\$12	2,50	0 - abandonm	ent costs														
							Certifi	Cati	ion								
						'	Certiii	Call	1011								
		ertify under the															
		achments and formation is tru						-	-			-			9		
		ssibliity of fine						-	•			=		-			
Name	e an	d Official Title	(Please type o	r print)		Sigr	nature		_					Date Signed	<u> </u>		
Dan	Jol	hnson, VP Env	vironmental a	nd Technica	l Service	s		2		Q C				10/01/2014	4		
						11				- /				11			

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HALEY& FLORENCE COPPER, INC. FLORENCE, ARIZONA

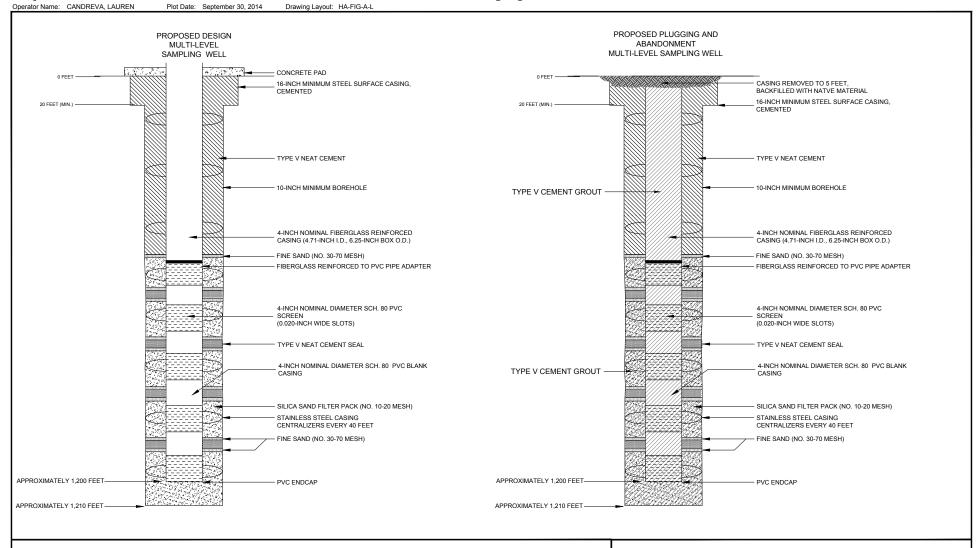
MULTI-LEVEL SAMPLING PROPOSED WELL ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

Ω	United States Environmental Protection Agency Washington, DC 20460																	
		<b>FA</b>		PLU	JGGIN	IG AN	D AB	ΑN	DON	MEN	NT PL	AN						
Name	e an	d Address of F	acility					Nam	ne and Ad	dress	of Owner	r/Operator						
		ce Copper Pro						Flo	orence Co	opper	r, Inc.							
157	75 V	V Hunt Hwy,	Florence, AZ	85132				15'	75 W Hu	nt Hy	wy, Flore	ence, AZ 8	5132					
	1.00	ata Wall and C	Outline Unit on	State				Coun	nty		Permit Number							
Locate Well and Outline Unit on Section Plat - 640 Acres							Arizona				ıl		AZ396000001					
			N			Surface L	ocation_	Desc	ription									
						SW 1/4 0	SW 1/4 of SW 1/4 of NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E											
		$\bot$ $\bot$ $\bot$ $\bot$ .				Locate well in two directions from nearest lines of quarter section and drilling unit												
						Surface												
	$\vdash$	++	$ \vdash$ $+$ $ \vdash$	-+-		Location 1080 ft. frm (N/S) N Line of quarter section												
	L	<u> </u>					and 1000 ft. from (E/W) E Line of quarter section.											
						and 1000	TYPE O	ACTIVITY										
w		+ + +	+ +	E		☐ Indi	vidual P			ION			SS I	ACTIVITY				
	L	1_L1.					viduai P a Permit	eriiii	l			=	SS II					
						Rul							Brine Dispos	al				
	_	+	— <del> -   -  </del>	-+-		Kui	e		_				•					
	_	<u> </u>	_	_		Numbe	r of Well:	ells 1					Enhanced Recovery  Hydrocarbon Storage					
		i i i		ļ ļ									SS III	Otorage				
			S				NA	1			WP 02							
						Lease Na					well number							
		CA	ASING AND TUE	BING RECORI	D AFTER	PLUGGING					METH	OD OF EMP	LACEMENT (	F CEMENT PI	LUGS			
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	то ве	LEFT IN WELL (FT) HOLE SIZE					<b>✓</b> The	Balance M	ethod					
16"		31.66	20		20	20"					The Dump Bailer Method The Two-Plug Method							
4"		5.61	510		510	10"												
4"		2	690		690	10"					Oth	ier						
		CEMENTING	G TO PLUG AND	ABANDON D	ATA:	PLUG :		#1	PLUG #2	2 P	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7			
			which Plug Wil		(inche		4											
			oing or Drill Pip				1200	_		4								
			Used (each plu	ıg)			82	_		4								
	_	olume To Be P	,				105											
		ed Top of Plug					0	_		_  _								
		d Top of Plug (	if tagged ft.)				NA	_		╬								
	-	t. (Lb./Gal.)	Material (Class	III\			15.4	=		╬								
Туре	Cei		•	•	DEDEAD	ATED INT	V	AND	INTERMAL	0.14/1	IEDE OAO	ING WILL D	E WARIER (if					
		From	ST ALL OPEN H	OLE AND/OR	To	AIEDINII	ERVALS	ANDI	INTERVAL		om	ING WILL B	E VARIED (IT					
525		110111		600				112	05		OIII		To 1200					
675								112	23				1200					
825				900														
975				1050														
		d Cost to Plug	Wells	1030														
		0 - abandonm																
							0 - 1415											
							Certifi	cati	on									
			e penalty of law															
Ī			that, based on ue, accurate, an					-	-			-			<u> </u>			
Ī			e and imprison						.sam pon					oraaniy aid	•			
Name	e an	d Official Title	(Please type o	or print)		Sia	nature							Date Signed	<u> </u>			
					l Service													
Dan Johnson, VP Environmental and Technical Services										ا	Por			10/01/2014	t			

The public reporting and record keeping burden for this collection of information is estimated to average 4.5 hours for operators of Class I hazardous wells, 1.5 hours for operators of Class I non-hazardous wells, 3 hours for operators of Class II wells, and 1.5 hours for operators of Class III wells.

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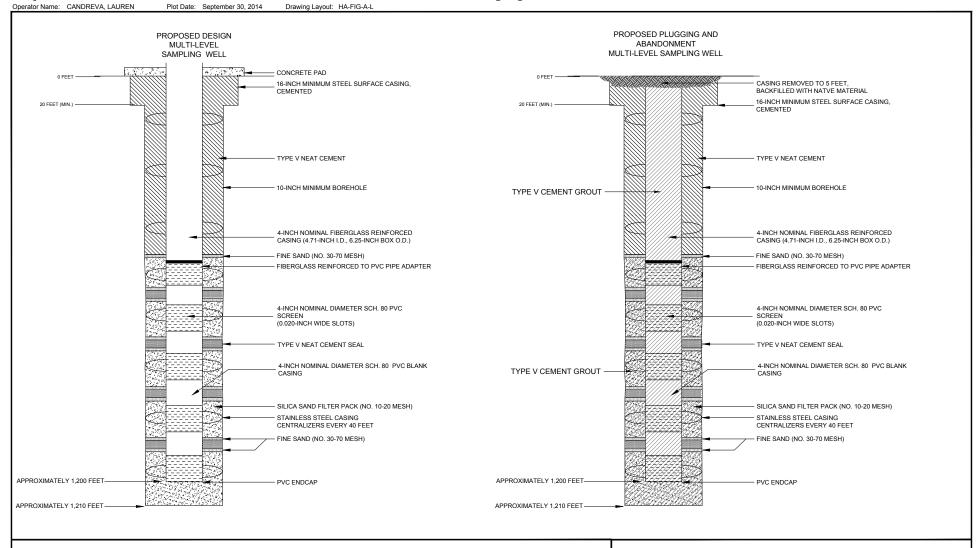
MULTI-LEVEL SAMPLING PROPOSED WELL ABANDONMENT SCHEMATIC

SCALE: NOT TO SCALE AUGUST 2014

_	United States Environmental Protection Agency  Washington, DC 20460																
Ÿ	PLUGGING AND ABANDONMENT PLAN																
Name	an	d Address of Fa	acility					Name and Address of Owner/Operator									
		ce Copper Pro V Hunt Hwy, I		85132					orence Co 75 W Hur	. 1	orence, AZ 8	35132					
					s	State County Pern						ermit	it Number				
		cate Well and Oction Plat - 640 A			Ī.						XZ396	396000001					
	000	21011 1 101 0 10 7			s	urface L	ocation.	Des	cription								
			N		5	SW 1/4 of SW 1/4 of NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E											
		i i i		i l	_	Locate well in two directions from nearest lines of quarter section and drilling unit											
		<u> </u>		- <del></del>			en in two	aire	ections fro	n nearest i	ines or quart	er sectio	n and	arilling unit			
	<u> </u>	+	$ \vdash$ $+$ $ \vdash$	-+-	_	Surface											
		<b> </b>	_			Location 1120 ft. frm (N/S) N Line of quarter section											
					<u>a</u>	and 1045 ft. from (E/W) E Line of quarter section.  TYPE OF AUTHORIZATION WELL ACTIVITY											
w		+ + +		E						N		V ASS I	/ELL /	CHVIIY			
						✓ Area	vidual P	ermi	ι			ASS II					
						Rule						Brine D	ionoo				
	—	+	$ \vdash$ $ \vdash$	-+-								Enhanc	•				
	<u> </u>		_			Number	of Well	s <u>1</u>				Hydroca		-			
											✓ CI		21 0011	Storage			
			S				NA				CLASS III						
			_		L	ease Na	me			Well Number WB-03							
		CA	SING AND TUE	ING RECOR		ME	THOD OF EM	PLACEMI	ENT O	F CEMENT PI	_UGS						
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LE	LEFT IN WELL (FT) HOLE SIZE					The Balance I	Method					
16"		31.66	20		20	20"					The Dump Ba		hod				
4"		5.61	510		510			1	.0"	_	The Two-Plug		Jou				
4"		2	690		690	10"					Other						
		CEMENTING	TO PLUG AND	ABANDON D	ATA:	PLUG		#1	PLUG #2	PLUG #	3 PLUG #4	PLU	G #5	PLUG #6	PLUG #7		
Size	of H	lole or Pipe in v	which Plug Wil	l Be Placed	(inche		4										
Depti	h to	Bottom of Tub	ing or Drill Pip	e (ft			1200										
Sack	s of	Cement To Be	Used (each plu	ıg)			82										
	-	olume To Be Pu					105										
		ed Top of Plug					0										
		d Top of Plug (i	f tagged ft.)				NA										
	•	t. (Lb./Gal.)					15.4										
Туре	Cer	ment or Other N	laterial (Class	III)			V										
			T ALL OPEN H	OLE AND/OR		TED INTE	RVALS	AND	INTERVAL		ASING WILL	BE VARIE	D (if a				
		From		500	То					From		1200		То			
525				600				112	25			1200					
675				750				L									
825				900				H									
975		d Cost to Plug	Walls	1050													
		0 - abandonm															
φ12	.,50	o - abandonini	ent costs														
$\vdash$																	
							Certifi	cati	ion								
	Lo	ertify under the	nonalty of law	that I have	noreonally	ovamino	d and ar	n fan	niliar with t	ha informa	tion submitte	d in this	docur	nent and all			
		tachments and															
1		formation is tru essibliity of fine					ere are s	signi	ficant pena	lties for su	bmitting false	informa	ition, i	including the	•		
			<u> </u>	•	-U OFK 144												
		d Official Title					nature							Date Signed			
Dan	Jol	hnson, VP Env	vironmental a	nd Technica	ll Services				5	- 0				10/01/2014	1		

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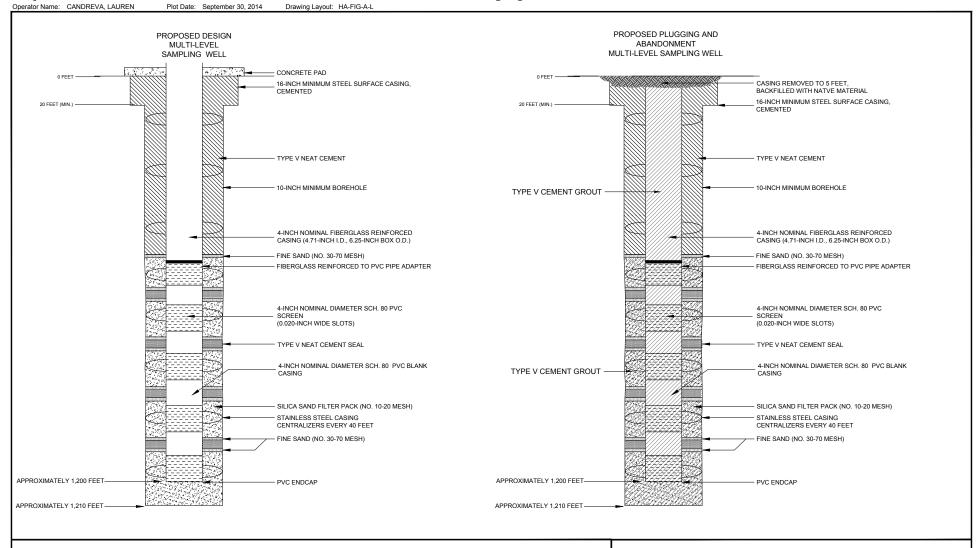
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SCALE: NOT TO SCALE AUGUST 2014

	United States Environmental Protection Agency Washington, DC 20460																	
Ÿ	PLUGGING AND ABANDONMENT PLAN																	
Name	Name and Address of Facility  Name and Address of Owner/Operator																	
Flo	renc	ce Copper Pro V Hunt Hwy, I	ject	85132				Flo	orence Co	opper	r, Inc.	nce, AZ 85	5132					
					Stat	State County Perm							Permit	it Number				
Locate Well and Outline Unit on Section Plat - 640 Acres							Arizona							AZ396000001				
			N		Sur	Surface Location Description												
				SW 1/4 of SW 1/4 of NE 1/4 of SW 1/4 of Section 28 Township 4S Range 9E  Locate well in two directions from nearest lines of quarter section and drilling unit														
	-	<u> </u>	- <del> -   -  </del>		Loc	cate we	ell in two	o dire	ctions fro	om ne	earest line	s of quarte	section and	l drilling unit				
	_	$\dot{+}$ $-\dot{+}$ $\dot{-}$				face	1000											
		<u>i_Li</u> .	_L_i_i	i							of quarter							
		$\top$		$\overline{}$	and						quarter sec	ction.	MELL	A OTIV/ITY/				
w		+ + +	+ +	E		_	IYPE O idual P		THORIZAT	ION		CLA		ACTIVITY				
	L.	ユーレユ-	_	_			Permit	emm	ı				SS II					
		.				Rule							35 II Brine Dispos	al				
	_	<u> </u>	_	- + -					_				Enhanced Re					
		<u> </u>	_	_	N	umber	of Wells	s <u>l</u>					lydrocarbor	-				
												✓ CLA	-					
			S	_	Lea	ise Nan	ne NA				Well Number WB-04							
		CA	SING AND TUE	ING RECOR	D AFTER PLU	GGING	;				METHOD OF EMPLACEMENT OF CEMENT PLUGS							
SIZ	E	WT (LB/FT)	TO BE PUT IN	WELL (FT)	TO BE LEFT	LEFT IN WELL (FT) HOLE SIZE					✓ The Balance Method							
16"		31.66	20		20	20"						Dump Bail	er Method					
4"		5.61	510		510	20"					The	Two-Plug I	/lethod					
4"		2	690		690	10"					Oth	er						
		CEMENTING	TO PLUG AND	ABANDON D	ATA:		PLUG	#1	PLUG #2	2 P	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7			
		lole or Pipe in v			(inche		4											
		Bottom of Tub					1200	_		4								
		Cement To Be		ıg)			82	_		#								
	_	olume To Be Pu					105	=		╡┢								
		d Top of Plug (i	` '				NA			4								
		t. (Lb./Gal.)					15.4	=		╡┢								
	_	ment or Other N	laterial (Class	III)			V			╗								
		LIS	T ALL OPEN H	OLE AND/OR	PERFORATE	D INTE		AND	INTERVAL	S WH	IERE CAS	ING WILL B	VARIED (if	any)				
		From			То						om			То				
525				600				112	25				1200					
675				750														
825				900														
975																		
		d Cost to Plug																
\$12	2,50	0 - abandonm	ent costs															
							Certifi	Cati	on									
					_						_							
		ertify under the tachments and																
	inf	formation is tru	e, accurate, ar	nd complete.	I am aware t	that the		_	-			-			e			
	ро	ssibliity of fine	and imprison	ment. (Ref. 4	40 CFR 144.32	2)												
Name	e an	d Official Title	(Please type o	or print)		Sign	ature <							Date Signed				
Dan	Jol	hnson, VP Env	vironmental a	nd Technica	l Services			(	<u>).</u>	ا	PA -			10/01/2014				

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