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**west virginia** department of environmental protection

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Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
(304) 926-0450  
(304) 926-0452 fax

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
www.dep.wv.gov

November 09, 2015

CAMP CREEK DISPOSAL SERVICES, INC.  
POST OFFICE BOX 555  
ROSEDALE, VA 24280-

Re: Underground Injection Control (UIC)  
Permit #UIC2D0550319

Dear Applicant:

Your application for the referenced Underground Injection Control (UIC) Permit has been reviewed and found to be complete. Please find enclosed a **draft UIC permit and a public notice** which are prescribed by Title 47, Series 13, Section 13.24 issued pursuant to WV Code Chapter 22, Article 11 and 12. You are required to have this notice published in its entirety, as a Class I legal advertisement in the BLUEFIELD DAILY TELEGRAPH on 11/19/2015.

Upon publication, you are required to send a copy of the certificate of publication to:

Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
Attn: Thomas L Bass, Environmental Resource Program Manager

The cost of publication is also your responsibility.

If no comments are filed during the thirty (30) day commenting period for the public notice, a permit may be issued. If you have any questions, feel free to call me at (304) 926-0499 ext. 1653.

Sincerely,

Thomas L Bass  
Environmental Resource Program Manager

Enclosures as stated

**PUBLIC NOTICE**

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
Phone: (304) 926-0450  
Fax: (304) 926-0452

Re: UIC Permit Application  
UIC2D0550319

**APPLICATION FOR STATE UNDERGROUND INJECTION CONTROL PERMIT**

Public Notice Number: UIC-2015-010

Paper:  
*BLUEFIELD DAILY TELEGRAPH*  
POST OFFICE BOX 1599  
BLUEFIELD, WV 24701

The following applicant has applied for a State Underground Injection Control (UIC) Permit for this facility or activity:

Applicant:  
CAMP CREEK DISPOSAL SERVICES, INC.  
POST OFFICE BOX 555  
ROSEDALE, VA 24280

Application Number: UIC2D0550319  
Business Conducted: Oil and/or natural gas production.

Location: On the waters of Camp Creek in Jumping Branch District of Mercer County / Utm Northing 4149812.1 / Utm Easting 490704.2

Activity: Issuance of a commercial Underground Injection Control (UIC) Permit for the subsurface disposal of produced fluids.

The state of West Virginia will act on the above application in accordance with the West Virginia Legislative Rules, Title 47, Series 13, Section 13.24 issued pursuant to Chapter 22, Article 11&12.

Any interested person may submit written comments on the draft permit and may request a public hearing within 30 days of the date of publication. Such comments or requests should be addressed to:

Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304  
Attn: UIC Program

Comments received within this period will be considered prior to acting on the permit application. Correspondence should include the name, address, and telephone number of the writer and a concise statement of the nature of the issues raised. A public hearing may be held if the Chief considers significant the degree of public interest raised on issues relevant to the draft permit.

Interested persons may contact the person identified above at (304) 926-0450 to obtain further information.

The application, draft permit, and any required fact sheet are on file and may be inspected, by appointment, or copies obtained, at a nominal cost, at the Office of Oil and Gas, 601 57th Street SE, Charleston, WV 25304, between 8:00 a.m. and 4:00 p.m. on business days.

**UNDERGROUND INJECTION CONTROL PERMIT**

For

**Camp Creek Disposal Services, Inc.**

**Number UIC2D0550319**

DRAFT

**AUTHORIZATION TO OPERATE AN  
UNDERGROUND INJECTION CONTROL  
(UIC) INJECTION WELL  
PERMIT NUMBER # UIC 2D0550319**

In compliance with provisions of the West Virginia Code, Chapter 22, Article 6, Article 11 and Article 12, as well as Legislative Rules, Title 47, Series 13 and Series 58, Title 47, Series 55, and Title 35 Series 1 and Series 4.

NAME	Camp Creek Disposal Services, Inc.	FACILITY TYPE	<u>Brine Disposal</u>
ADDRESS	P.O. Box 555	WELL API #	<u>47-055-00319</u>
ADDRESS	Rosedale, VA 24280	FIELD NAME	NA

is authorized by this permit to inject Class II fluids that are brought to the surface in connection with conventional oil or natural gas production and may be commingled with waste waters from gas plants which are an integral part of production operations, unless those waters are classified as a hazardous waste at the time of injection into the **Huron Shale** formations in accordance with the conditions set forth herein. The permitted injection depth shall be 4608 feet to 5720 feet. The injection well is located in **Mercer** County, 7.5' **Athens** Quadrangle. The coordinates for this injection well are:

UTM NAD 83 Northing 4149812.1 and UTM NAD 83 Easting 490704.2.

The maximum permitted wellhead injection pressure is established as 1465 PSI.

All references to West Virginia Regulations are to those that are in effect on the date that this permit becomes effective.

Any person who holds a permit shall pay an annual permit fee in accordance with the provisions of Title 47 Series 9 section 7 of the Legislative Rule. The first annual permit fee shall be remitted to the Office of Oil and Gas one (1) calendar year from the date of permit issuance; subsequent annual permit fees shall be remitted on or before the anniversary date of the permit issuance. The annual permit fee for a Class II disposal well is twenty five dollars (\$25). The permit becomes void if the annual permit fee has not been paid within one hundred eighty (180) days of the due date. The Chief shall not reissue a permit until all annual permit fees due during prior terms of that permit have been paid in full.

Failure to pay the annual groundwater fee of \$75.00 for Class IID as required by the West Virginia Code, Chapter 22, Article 11 and/or Article 12, shall be cause for revocation of this permit. The annual permit fee is due on the anniversary date of permit issuance and shall be paid on the anniversary date of issuance of this permit.

Non-compliance with the terms of this permit shall be cause for revocation of Certification under the terms of Chapter 22, Article 12, and revocation of the permit under Chapter 22, Article 11 of the West Virginia Code.

This permit and its authorization to inject shall remain in effect for five (5) years from the date of issuance of the final permit provided all terms of the permit are met.

James Martin, Chief  
Office of Oil and Gas

## PART I

### A. REAPPLICATION

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must submit an administratively complete application for a new permit at least one hundred and eighty (180) days before this permit expires and an application fee.

### B. IMMEDIATE REPORTING

The permittee shall report any noncompliance which may endanger human health or the environment immediately after becoming aware of the circumstances by using the WVDEP Emergency Spill line number, 1-800-642-3074. Written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, permittee shall provide the anticipated time it is expected to continue; and the steps taken or planned to be taken to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported immediately:

- i. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water (USDWs).
- ii. Any non-compliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between the USDWs, or failure of mechanical integrity test demonstrations.

### C. RIGHT OF APPEAL

Notice is hereby given of your right to appeal the terms and conditions of this permit by which you are aggrieved to the State Environmental Quality Board by filing a NOTICE OF APPEAL on the form prescribed by such Board for this purpose, with the Board, in accordance with the provisions of Chapter 22 Article 11, Section 21 of the code of West Virginia within thirty (30) days after the date of receipt of the above permit.

### D. EFFECT OF PERMIT

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit based on an approved permit application. The permittee shall not allow the underground injection activity authorized by this permit to cause or allow the movement of fluid containing any contaminant into underground sources of drinking water and may not cause a violation of any primary drinking water regulation or any health-based limit promulgated under 40 CFR Chapter 1, Part 142, of the Code of Federal Regulations, or of any water quality standard promulgated by the West Virginia Department of Environmental Protection/Division of Water and Waste Management. Any underground injection activity not authorized in this permit is prohibited. Compliance with the terms of this permit does not constitute a defense to any action brought under Part C and the imminent and substantial endangerment provisions in Part D of the Safe Drinking Water Act (SDWA) or any other common or statutory law for any breach of any other applicable legal duty.

### E. PERMIT ACTIONS

1. This permit can be modified, revoked and reissued or terminated for cause specified in Chapter 22, Article 11 (hereafter §22-11), and Chapter 22, Article 12 (hereafter §22-12) of the West Virginia Code, and Title 47, Series 13 (hereafter 47 CSR 13) of the Legislative Rules. The filing of a request by the permittee for a permit modification, revocation and reissuance, suspension or revocation, or notification of planned changes or anticipated noncompliance, does not stay any permit condition.

2. Transfer of Permits. This permit is not transferable to any person unless notice is first provided to the Office of Oil and Gas and the permittee complies with requirements of 47 CSR 13-13.17. The Office of Oil and Gas may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Safe Drinking Water Act (SDWA).

#### F. SEVERABILITY

The provisions of this permit are severable, and if any condition of this permit or the permittee's application of any provision of this permit to any person or circumstance is held invalid, such invalidity shall not affect other provisions or applications of other provisions of the permit and the remainder of this permit shall not be affected.

#### G. DURATION OF PERMIT

This permit and the authorization to inject are issued for a period of five (5) years unless terminated under Part I Section H paragraph 11 of this permit. However, when through no fault of the permittee the West Virginia Department of Environmental Protection does not issue a new permit with an effective date on or before the expiration date of the previous permit and the permittee has submitted a timely administratively complete application as required in Part I section A of this permit, which is a complete application for a new permit, the expired permit shall continue to remain fully effective and enforceable.

#### H. GENERAL REQUIREMENTS

1. Duty to Comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the SDWA and the State Act and is grounds for enforcement action; for permit suspension or revocation, revocation and reissuance, or modification; or for denial of a permit renewal application. (47 CSR 13-13.12.a) Copies of UIC Program regulations (§22-11) may be obtained from the West Virginia Legislature's Web Site <http://www.legis.state.wv.us/WVCODE/Code.cfm>, and (47 CSR 13) may be obtained from the West Virginia Secretary of State's Web Site at <http://www.sos.wv.gov/>.
2. Duty to Reapply. If the permittee wishes to continue activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit as required in Part I section A of this permit as well as obtain a new permit.
3. Duty to Halt or Reduce Activity Not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
4. Duty to Mitigate. The permittee shall take all reasonable steps to minimize or correct any adverse impact on health of persons or the environment resulting from noncompliance with this permit.
5. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities, systems of treatment and control, and related equipment which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, adequate security at the facility to prevent unauthorized access, adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facility or similar systems only when necessary to achieve compliance with the conditions of this permit.

6. Duty to Provide Information. The permittee shall furnish to the Chief within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Chief, upon request, copies of records required to be kept by this permit. If the permittee becomes aware of any incomplete or incorrect information in the permit application or subsequent report(s), the permittee shall promptly submit information addressing these deficiencies to the Chief.
7. Inspection and Entry. The permittee shall allow the Chief, or an authorized representative, upon the presentation of credentials and other documents as may be required by law to:
  - a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
  - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
  - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
  - d. Sample or monitor, at reasonable times, for the purposes of assuring permit compliance for any substances or parameters at any location.
8. Penalties. Any person who violates a permit requirement is subject to civil penalties, criminal penalties, fines and other enforcement actions under §22-11 and §22-12.
9. Signatory Requirements. Only a duly authorized person may sign documents and reports associated with this permit.
  - a. All reports required by this permit and other information requested by the Chief shall be signed as follows:
    - (1) For a corporation, by a responsible corporate officer of at least the level of vice-president;
    - (2) For a partnership or sole proprietorship, by a general partner or the proprietor, respectively;
    - or
    - (3) For a Municipality, State, Federal, or other public agency by either a principal executive or a ranking elected official.
  - b. A duly authorized representative of the official designated in paragraph a. above may also sign only if:
    - (1) The authorization is made in writing by a person described in paragraph a. above;
    - (2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, and;
    - (3) The written authorization is submitted to, and approved by, the Chief.
  - c. If an authorization under paragraph (b) of this section is no longer accurate because a different individual has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph (b) of this section must be submitted to the Chief prior to or together with any reports, information or applications to be signed by an authorized representative.

- d. Any person signing a document under paragraph (b) of this section shall make the following certification: (47 CSR 13-13.11.d). "I certify under 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."
10. Property Rights. Issuance of this permit does not convey property rights or mineral rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, any infringement of State or local law or regulations, or any exclusive privilege.
11. Permit Actions. This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, suspension or revocation, or notification of planned changes or anticipated noncompliance, does not stay any permit condition.
12. Confidentiality of Information.
- a. In accordance with 47 CSR 13-13.21, any information submitted to the State pursuant to this rule may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in the manner prescribed on the application form or instructions, or in the case of other submissions, by stamping the words "CONFIDENTIAL BUSINESS INFORMATION" on each page containing such information. If no claim is made at the time of submission, the State may make the information available to the public without further notice.
- b. Claims of confidentiality for the following information will be denied:
- i. The name and address of any permit applicant or permittee.
- ii. Information which deals with the existence, absence, or level of contaminants in drinking water.
13. Monitoring Reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.
14. Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than thirty (30) days following each schedule date.
15. Other information. Where a permittee becomes aware that he/she failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Chief, he/she shall promptly submit such facts or information.
16. It shall be unlawful for any person, unless an authorization has been issued by a groundwater regulatory agency, to deliberately allow crude oil, or any petroleum product derived from crude oil, or seepage, or natural gas, or condensate, or salt water, or any chemical mixture which may impact groundwater quality to escape from any well, pipeline, impoundment, storage tank, treatment unit, or storage container, or be deliberately allowed to flow onto or under the land surface in such a manner that could impact groundwater quality.
17. State or Federal Laws. Nothing in this permit shall be construed to preclude the institution on any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any State or Federal law or regulation.

## PART II

### A. RECORD RETENTION

1. Required Records. The permittee shall retain all records concerning the permitted underground injection well until three (3) years after completion of any plugging and abandonment. The Director may require the owner or operator to deliver the records to the Director at the conclusion of the retention period.

### B. MONITORING REQUIREMENTS

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. The method used to obtain a representative sample of the fluid to be analyzed and the procedure for analysis of the sample shall be in accordance with test procedures approved under 40 CFR 136.3, unless otherwise approved by the Chief. The permittee shall identify the types of tests and methods used to generate the monitoring data.
2. All environmental measurements required by the permit, including but not limited to, measurements of pressure, temperature, mechanical, and chemical analyses shall be done in accordance with state guidance on quality assurance. All analysis must be performed by a West Virginia certified laboratory.
3. Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurements;
  - b. The individual(s) who performed the sampling or measurements;
  - c. The date(s) analysis(es) were performed;
  - d. Individual(s) who performed the analyses;
  - e. The analytical techniques or methods used; and
  - f. The results of such analyses.
4. The permittee shall daily monitor all the casing annuli with pressure sensitive devices or with such a method as approved or required by the Office of Oil and Gas to allow early detection of any leaks from the injection zone or casing. The Permittee shall also monitor injection pressure, volume, and rate daily. This information shall be reported monthly using the Office of Oil and Gas electronic WR-40 Form. Submittal shall be through the current WVDEP Electronic Submittal System (ESS).
5. The Permittee shall utilize a pressure recording device with a resolution of one tenth (0.1) psi to continuously record the annulus pressure. Prior to injection the operator shall note the daily annulus pressure (daily baseline). Any deviation plus or minus 25 psi during injection of the daily baseline annulus pressure shall be considered a MIT failure.
6. The permittee shall sample and analyze injection fluids thirty (30) days prior to issuance of the UIC permit for the parameters listed in TABLE 1 below and submit the laboratory results to the Office of Oil and Gas within fifteen (15) days of receipt of the analysis.
7. The permittee shall sample, analyze and record the nature of all the injected fluid for the parameters listed in TABLE 1 below at the initiation of the injection operation and upon request by the Chief or whenever the operator observes or anticipates a change in the injection fluid.

**TABLE 1**

-pH	-Manganese
-Specific Gravity	-Total Dissolved Solids
-Barium	-Hydrogen Sulfide
-Specific Conductance	-Sodium
-Iron	-Alkalinity
-Magnesium	-Hardness
-Chloride	-Total Organic Carbon (TOC)
-Dissolved Oxygen	

8. Any analysis result of specific gravity greater than 1.2 and any analysis of TOC greater than 250.0 mg/L shall be reported to the Chief within twenty-four (24) hours of the results.
9. The permittee shall maintain a record (manifest) of every load of fluid received. The record shall include the hauler's name and signature, the operator's name and signature, API number for the well the fluid was collected or the location from where the load was obtained, the volume of the load and whether the load of fluid delivered was a split load. If the load was a split load, each operator's name and location shall be listed and, if possible, the volumes of fluid received from each operator documented. This information shall be maintained on the Class II disposal manifest attached to this permit and maintained at the facility.
10. A wellhead pressure gauge shall be installed and maintained on the injection tubing to facilitate inspection and ensure compliance of maximum injection pressures as approved on Oil and Gas Form WR-37. A daily reading of the injection pressure shall be taken and reported on Form WR-40.
11. All pipeline(s) from the injection pump to the injection well shall be tested for integrity at least once every five (5) years with the results reported and on Form WR-37 and submitted to the Office of Oil and Gas. The pipeline integrity test shall pressurize the injection pipeline(s) to the maximum permitted wellhead injection pressure for a minimum of thirty (30) minutes, allowing for no more than five (5) percent loss after completion. The permittee shall notify the Chief of his or her intent to conduct an integrity test of the pipeline(s) no less than twenty-four (24) hours prior to such test. Upon failure of a mechanical integrity test or expiration of the four (4) year mechanical integrity test regulatory period, the permittee shall cease operation/injection and shut-in the well immediately until successfully repaired, replaced and then tested. Repairs shall be completed by the permittee and approved by the Office of Oil and Gas. All repairs shall be completed within ninety (90) days of the failure date. If repaired, the well must be re-tested and an updated WR-37 Form must be submitted to the Office of Oil and Gas for approval. Any change made to the pipeline fittings or piping will require integrity testing.
12. The permittee shall conduct a mechanical integrity test (see Attachment 3) of the injection well at a minimum frequency of once every four (4) years per 35 CSR 4-7.7.b. The MIT procedure, as set forth in Appendix 3, may be deviated from with written approval from the WVDEP/Office of Oil and Gas. The permittee shall notify the Chief of his or her intent to conduct a mechanical integrity test no less than twenty-four (24) hours prior to such demonstration. The permittee must submit a WR-37 Form with each mechanical integrity test along with a copy of any test chart(s). Upon failure of a mechanical integrity test or expiration of the four (4) year mechanical integrity test regulatory period, the permittee shall cease operation/injection and shut-in the well immediately until successfully repaired, tested or permanently plugged and abandoned per regulation. Corrective action for repairs shall be completed for approval by the Office of Oil and Gas and be conducted within ninety (90) days of the failure date. If repaired, the well must be re-tested and an updated WR-37 Form must be submitted to the Office of Oil and Gas for approval.

13. In addition to the above requirement, a mechanical integrity test demonstration shall be conducted whenever protective casing or tubing is removed from the well, the packer is replaced or resealed, if well failure likely, or as requested by the Chief. The permittee may continue operation only if he or she has successfully demonstrated to the Chief the mechanical integrity of the permitted well. The permittee shall cease injection operations if a loss of mechanical integrity becomes evident or if mechanical integrity cannot be demonstrated.

**C. REPORTING AND NOTIFICATION REQUIREMENTS**

1. **Anticipated Noncompliance.** The permittee shall give advance notice to the Chief of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
2. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs Part I Section B, and Part II Section C Paragraph 3 of this permit, at the time monitoring reports are submitted. The report shall contain the information listed in Part I Section B of this permit. The permittee shall report all other instances of noncompliance in writing within ten (10) days of the time the permittee becomes aware of the circumstances. The reports shall contain the information listed in this permit.
3. **Planned Changes.** The permittee shall give notice to the Chief as soon as possible of any planned significant physical alterations, additions to the permitted facility, and/or any significant changes planned in the operation of the facility.
4. **Cessation of Injection Activity.** Any well which is not in use for a period of twelve (12) consecutive months shall be presumed to have been abandoned and shall promptly be plugged by the operator in accordance with the provisions in Chapter 22, Article 6 Section 24 of the West Virginia Code, unless the operator furnishes satisfactory proof to the Chief that there is a bona fide future use for such well.
5. **Report on Permit Review.** Within thirty (30) days of receipt of this permit, the permittee shall report to the Chief that he or she has read and understands and accepts all terms and conditions of the permit.
6. The owner or operator or person in charge of a facility subject to this rule from which a reportable discharge as described in subsection 3.3 of 35CSR1 occurs shall notify the Office of Oil and Gas by calling 1-800-642-3074 immediately; but in no case, later than twenty-four (24) hours after becoming aware of the discharge.

**PART III**

**A. OPERATING REQUIREMENTS**

1. **Injection Fluid.** The permittee shall not inject any hazardous substances, as defined by 40 CFR 261, or any other fluid, other than the fluids produced solely in association with oil and gas production operations.
2. Any well that penetrates the injection zone with an inactive and/or abandoned status within the permitted Area of Review, that does not have cement casing through the injection zone, shall be monitored immediately by a method approved by the Office of Oil and Gas, as well as properly plug and abandon such wells, as necessary.
3. Injection between the outermost casing protecting underground sources of drinking water and the wellbore is prohibited, as is injection into any USDW.

4. Corrective Action. The applicant must satisfy the requirement of the Office of Oil and Gas regarding any corrective action needed on all known wells penetrating the injection zone within the area of review. This must be done in a manner which satisfies the requirements of 47 CSR 13-13.9.
5. Loading and unloading stations shall have spill prevention and control facilities and procedures as well as secondary containment. Spill containment and cleanup equipment shall be readily accessible.
6. The permittee shall ensure that secondary containment for existing above ground storage tank(s) shall be adequately designed and constructed to be sufficiently impervious to prevent the released substance from penetrating the containment structure until the release can be detected and recovered, but in no case will that time be less than seventy-two (72) hours.
7. Above ground storage tank(s) associated with this underground injection facility shall have secondary containment sufficient capacity to contain 110% volume of the largest tank. For tank batteries or tanks connected in series by manifold, the combined volume of the tanks must be considered if a release from one tank or the piping is capable of emptying the other tanks.
8. Pumps and ancillary equipment (e.g. valves, flanges, filters, condensate lines and instrumentation) handling materials that have the potential to contaminate groundwater shall be selected and installed to prevent or contain any spills or leaks.
9. Sumps containing materials which have the potential to contaminate groundwater shall be designed, constructed, and operated utilizing leak detection or secondary containment, or other appropriate controls that are capable of preventing groundwater contamination.
10. No third party haulers shall be permitted without approval by the Office of Oil and Gas. For approval, the permittee shall designate by letter to the Office of Oil and Gas, any third party hauler proposed to be used for the transportation of fluids to the facility. The third party hauler may not commence transportation of fluids to the facility until approved by the Office of Oil and Gas.
11. Facility Security. The gate on the access road to the site shall be closed and locked at all times when there is not a company representative at the facility. All valves, water drains, and containment areas storage areas shall be secured and locked utilizing locking devices and/or plugs. During the life of this permit all gates and access points shall be secured and locked while no representative is at the facility. All visitors must check in upon arriving at the facility. Haulers (if used) shall not be allowed to off load without the proper paperwork and documentation.

**B. PLUGGING AND ABANDONMENT**

1. Any well which is not in use for a period of twelve (12) consecutive months shall be presumed to have been abandoned and shall promptly be plugged by the operator in accordance with the provisions of Chapter 22, Article 6, of the West Virginia Code, unless the operator furnishes satisfactory proof to the Chief that there is a bona fide future use for such well.
2. Prior to well plugging, the permittee shall apply for and receive a plugging permit from the Office of Oil and Gas to plug and abandon the well in accordance with an approved plugging and abandonment plan.
3. Plugging and abandonment shall be conducted in a manner to prevent movement of fluids into or between underground sources of drinking water.
4. Pursuant to Legislative Rule 47-13-13.7.f, the permittees plugging and abandonment plan shall be incorporated into the UIC permit. See attachment 1.

**PART IV**

**A. SITE SPECIFIC CONDITIONS**

1. Appendix A: Specific operational conditions.
2. Appendix H: Groundwater Protection Plan (GPP) The GPP shall be maintained and updated as necessary to protect groundwater quality.
3. Appendix I: Requirement for Financial Responsibility to plug/abandoned an injection well.
4. Attachment 1: Permittee's Plugging and Abandonment Plan.
5. Attachment 2: Site/Facility Diagram.
6. Attachment 3: Mechanical Integrity Testing (MIT) Procedure



## APPENDIX A (cont.)

### 12. Casing and Tubing Program

<u>TYPE</u>	<u>Size</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft. (lb/ft)</u>	<u>FOOTAGE: For Drilling</u>	<u>INTERVALS: Left in Well</u>	<u>CEMENT: Fill-up (Cu. Ft.)</u>
Conductor	12"	New	LS		21	21	Sand in
Fresh Water	9 5/8"	New	N/A	26	225	225	410 sks
Coal							
Intermediate 1	7"	New	LS	17	1,281	1,281	230 sks
Intermediate 2							
Production	4 1/2"	New	M-65	9.5	5,828	5,828	410 sks
Tubing	2 3/8"	New	J-55	4.6		4,595	
Liners							

<u>TYPE</u>	<u>Wellbore Diameter</u>	<u>Casing Size</u>	<u>Wall Thickness</u>	<u>Burst Pressure</u>	<u>Cement Type</u>	<u>Cement Yield (cu. ft./k)</u>	<u>Cement to Surface ?</u>
Conductor							
Fresh Water							
Coal							
Intermediate 1							
Intermediate 2							
Production							
Tubing							
Liners							

### **Packers**

	Packer #1	Packer #2	Packer #3	Packer #4
Kind:	Tension Packer			
Sizes:	2 3/8" X 4 1/2"			
Depths Set:	4,563'			



# APPENDIX H

## GROUNDWATER PROTECTION PLAN

Facility Name: Camp Creek Disposal Services

County: Mercer

**Facility Location:**

<b>Postal Service Address:</b>	P.O. Box 555 Rosedale, Va	24280
<b>Latitude and Longitude:</b>	54965.188	590700.520

**Contact Information:**

<b>Person:</b>	C. Thomas Shrader
<b>Phone Number:</b>	276-880-2323
<b>E-mail Address:</b>	pitstop@mounet.com

Date: 8/26/2014

**1. A list of all operations that may contaminate the groundwater.**

The well is grouted the entire depth to the confining layer. The disposal layer is confined above and below by shale that lacks porosity and that has no fractures or porosity streaks. These characteristics make the shale great at containing fluids. Therefore, any groundwater contamination would originate from surface contamination. The main possibility of a contamination comes from the pipes and pumping station on the site (i.e. a leak or break down of a section of pipe or a pump malfunction).

**2. A description of procedures and facilities used to protect groundwater quality from the list of potential contaminant sources above.**

Berms are constructed around the above ground storage tanks and the well head itself to prevent and contain any type of spillage. Several pumps are in place on the pipes and pumping station to immediately stop and depressurize the system in case of a spill or malfunction of the system. Also, the initial two inch steel pipe leading to the well head is double cased within a four inch pipe.

**3. List procedures to be used when designing and adding new equipment or operations.**

A lock out and tag out procedure will be used to shut down all pumps while new equipment is being installed. The pipes will be depressurized and drained before any parts of the system will be serviced or replaced. ENPAC portable spill pallets will be used to catch any small remnants of fluid from the exposed pipes. Any fluid caught will be placed back into the storage tanks to be processed through the pumping system and disposed of into the well.



4. Summarize all activities at your facility that are already regulated for groundwater protection.

The well is grouted, there is a cinder block containment with a concrete base in place around the above ground storage tanks. Also, the brine water is stored in storage tanks to prevent spillage onto the ground and the tanks themselves are in a concrete containment to catch any leakage in case a tank does malfunction. Pipes are used to safely transport the material from the tanks to the well. Gauges are used to monitor this transport of fluids.

5. Discuss any existing groundwater quality data for your facility or an adjacent property.

There is currently no groundwater quality data for the well or any water wells on adjacent property.

6. Provide a statement that no waste material will be used for deicing or fill material on the property unless allowed by another rule.

No waste material from the well or above ground storage tanks will be used for deicing or fill material. All fluid on site being stored in the above ground storage tanks will be pumped directly into the disposal well.

7. Describe the groundwater protection instruction and training to be provided to the employees. Job procedures shall provide direction on how to prevent groundwater contamination.

The employees will be trained and familiar with the GPP and will be trained in the maintenance and inspection of the equipment on site to better prevent a spill. Employees will also be trained in proper cleanup procedures according to the GPP.

- 8. Include provisions for inspections of all GPP elements and equipment. Inspections must be made quarterly at a minimum.

All pipes and pumps will be inspected to insure no leaks or spills. Storage tanks will also be inspected to prevent any leakage. The pumps and pipes will be regularly tested to insure they are functioning properly (i.e. that the pumps and pipes are pressurized normally).

Signature: Tommy John

Date: 9/12/14

## APPENDIX I

### Requirement for Financial Responsibility to Plug/Abandon an Injection Well

To: WV Department of Environmental Protection  
Office of Oil and Gas  
601 57<sup>th</sup> Street, SE  
Charleston, West Virginia 25304-2345  
ATTN: Underground Injection Control Program

From: Camp Creek Disposal Services  
P.O. Box 555  
Rosedale, VA 24280

Date: 9-12-14

Subject: Underground Injection Control (UIC) Permit Application  
# 047-055-00319  
Requirement for Financial Responsibility

I, Tommy SHRAEDER, verify in accordance with 47CSR13-13.7.g., that I will maintain financial responsibility and resources to close, plug, and abandon underground injection wells(s) in a manner prescribed by the Chief of the Office of Oil and Gas.

Name: Tommy SHRAEDER

Signature: Tommy Shraeder

Date: 9/12/14

# Attachment 1



## *Plugging and Abandonment Plan*

*For*

**UIC# 2D0550319**

Camp Creek Disposal Services Inc.  
P.O. Box 555  
Rosedale, VA 24280  
Phone: (276) 880-2323

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**Introduction**

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This Plugging and Abandonment (P&A) Plan for this facility has been prepared to meet all the applicable requirements of the West Virginia Department of Environmental Protection Office of Oil and Gas.

Unsealed or improperly sealed wells may threaten public health and safety, and the quality of groundwater resources. Therefore, the proper abandonment of a well is a critical final step in its service life.

This plan will ensure that this facility properly plugs and abandons their disposal well if and when its ability to accept brine fluid has reached its maximum potential and economic operations have ended, the well encounters a problem that cannot be economically repaired, or the bottom hole location of the well will be moved to a higher elevation.

This plan shall isolate and protect all fresh and near fresh water zones, isolate and protect all commercial producing horizons for future development, and prevent leaks from or into the well.

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**1.0 General Facility Information**

---

**Name:** Camp Creek Disposal Services Inc.

**Address:** Exit 20, I-77 N  
Camp Creek, WV  
(276) 880-2323

**Geographic Location** USGS Quadrangle: Princeton, WV  
Latitude: 37°29'32.68N  
Longitude: 81°06'14.61"W  
County: Mercer

**Owner/Operator:** Camp Creek Disposal Services Inc.  
19708 Highway 19  
Rosedale, VA 24280  
(276) 880-2323

**Primary Contacts:**

1. Tommy Shrader, President  
Office: (276) 880-2323
2. Zachary Reed, Vice-President  
Office: (276) 880-2323

**1.1 Location and Activities**

The Camp Creek Disposal Services Inc. brine water storage is located in Mercer County, West Virginia near I-77. The facility is a brine water storage and disposal facility on an area of approximately 3-7 acres, off Interstate 77 North, Exit 20, Near Camp Creek. A Location Map (Figure A-1) is included in Appendix A depicting the location of this facility.

The facility is a brine water disposal plant, which disposes of brine water products used in gas well production. Brine water is stored on site in bulk containers for disposal.

The plant operates 6 days per week, year round. This office is attended from 8:00 am to 5:00 pm, Monday through Friday, with variable operation on Saturday, Sunday and holidays. A facility layout drawing (Figure A-2) showing the location of brine water storage structures is shown in Appendix A.

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## **2.0 Well Characterization**

Effective abandonment will depend on knowledge of the wells construction, geology, and the hydrogeology. The importance of a full characterization increases as the complexity of the well construction, site geology, and the risk of aquifer contamination increases. A Drill Log for Camp Creek Disposal Services well is included in Appendix B.

## **2.1 Well Preparation**

If possible, the borehole must be cleared of obstructions prior to abandonment. Obstructions such as pumps, pipes, wiring, and air lines must be pulled. All obstacles must be removed from the borehole. An attempt should be made to pull the casing when it will not jeopardize the integrity of the borehole.

Damaged or poorly constructed wells may need to be redrilled in order to apply proper abandonment techniques. In a situation where intermixing of aquifers is likely, the borehole may need to be redrilled.

## **3.0 Materials and Methods**

Sealant will be used the plugging and abandonment of the well to provide a watertight barrier to the migration of water into the well bore, in the annular spaces or in fractures and openings adjacent to the well bore. Sealants usually consist of Portland cement based grouts, "bentonite" clay "pills", or combinations of these substances. Additives are frequently used to enhance or delay specific properties such as viscosity, setting time, shrinkage, or strength.

This disposal well shall use a combination of neat cement grout and concrete grout as its sealants. Neat cement grout is generally formulated using a ratio of one 94lb. bag of Portland cement to no more than 6 gallons of water. This grout is typically used for sealing small openings, for penetrating any annular space outside the casings, and for filling voids in the surrounding rocks. Concrete grout consists of a ratio of not more than 6 gallons of water, one 94lb. bag of Portland cement, and an equal volume of sand. This grout is typically used for filling the upper part of the well above the water bearing zone, for plugging short sections of casings, or for filling large-diameter wells.

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### **3.1 Recommendations and Methods**

Using the Drillers Log attached Appendix B, the location of cement plugs shall be determined. The Drillers Log should identify the depths to perforations, joints, packers, etc. Cement to be pumped into the borehole using a tremie pipe.

1. Prior to the plugging and abandonment of the injection well the applicant will submit a revised plugging and abandonment plan to the director of the Underground Injection Control program (UIC) for review and approval.
2. A pressure mechanical integrity test should be performed on the well. The pressure test will be witnessed by the UIC and the test procedure will follow UIC Program procedures for pressure testing the disposal well. If leakage is indicated by the test, the location of the leakage will be identified, the impact to the environment evaluated, and this information submitted to UIC. An environmental remediation plan and implementation schedule and/or a repair plan will be submitted to the UIC for review and approval. No work will commence until the plan has been approved by the UIC.
3. The tubing and packers will be removed from the well.
4. A cement bond log and a gamma ray-neutron log will be run on the well and any other tests or logs determined necessary by UIC. The logs and test results will be submitted to UIC for review and approval. The logs and test results will include an interpretation of the log and tests by a person with the technical expertise to evaluate the data.
5. Based on the evaluation of the logs and tests conducted on the well, a plan for remedial work must be submitted to UIC for review and approval. The remedial work, determined necessary by UIC, will be performed. Remedial work will not commence until the plan has been approved by the UIC.
6. A cement retainer will be set at the base of the long string casing just above the injection interval. Failure risk shall be minimized by ensuring crossflow can be stopped. Use a tubing end plug with circulation to the side and upward, not downward. Use a heavily gelled bentonite "pill" below the cement plug depth. Use a custom spacer to separate the pill and the cement slurry. Use viscous thixotropic cement with setting time equal to the job time plus ½ hour. Rotate the centralized tubing during placement and gently withdraw at the end of pumping.
7. Cement will be displaced through the retainer, squeezing the injection interval with cement.
8. Perforations shall be identified and cement plugs shall be placed 100 ft. above and below perforations.
9. The well will be filled with neat cement grout and abandonment mud as needed.
10. Within 150 feet of the surface, a surface plug of concrete grout shall be placed in the borehole for strength.
11. The cement level will be observed in the casing after cement has set for 24 hours. If cement has fallen back, the casing will be filled with cement back to surface.
12. A metal cap will be welded to the casing inscribed with the UIC permit number and the date the well plugging was completed.
13. A map showing the tri-coordinate location (includes elevation) of the remaining wellhead prepared by a licensed professional land surveyor or professional engineer licensed to practice will be submitted to the UIC.
14. A plugging report with related details will be submitted to the UIC within 30 days of completing the plugging operation on a form provided by UIC. The work done with appropriate service company cementing reports and "day" reports will be submitted to the UIC.

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**4.0 Plugging Permit Packet**  
See Appendix D.

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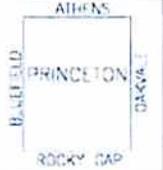
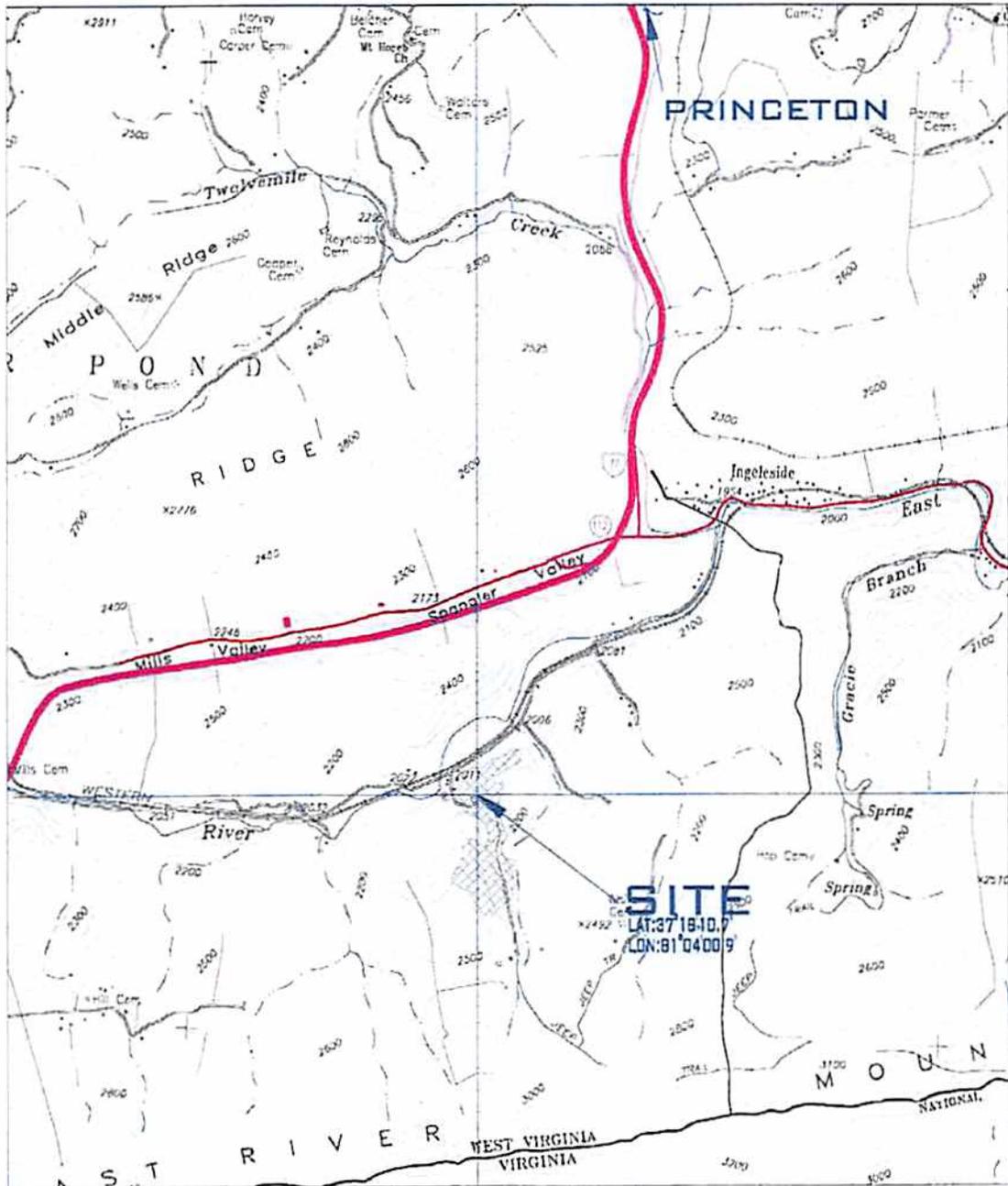
**Appendix A  
Location Map**

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APPENDIX A  
LOCATION MAP

SCALE: 1" = 2000' DATE: 1/07/14

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**Appendix B  
Well Drillers Log**

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WELL DETAIL SUMMARY REPORT

Today: 4/15/2009 Page 1  
As Of: 4/15/2009

Dominion

WELL: SWY 1437 WILLS ROY C

Event: 1

Description: DEVELOPMENT DRILL & COME

WELL ID# WY01437	APR: 4702K0310
POB# 95122	State: WV County: MASON
Company ID: 0571	Operation: DOMINION EXPLORATION & PRODUCTION
Well Type: DEV	Plan Feature: LOWER MURKIN
PLAN ID: 5802	Prop: STEVALL RIDGE
Start Date: 02/17/07	Permit:
TD: 1072	TVD: 0
CMC:	TC Date: 04/02/07
GL: 2019	AB:
	Phone Number:
	Rig Name: GARCO RIG #3

Operator's Paper Title: WELL SOLD (SILENCE)

Initial Production Rates: MCFD	SOFP	RWPD	SICP	FCR	Trapping
--------------------------------	------	------	------	-----	----------

CASING DATA							
Casing Size	OD Size	Weight	Grade	Conn	Head Size	Shoe Depth	Run Date

CEMENT DATA				
Casing Size	Port #	CMG Type	Sacks	BB Returns

ZONE PERFORATION DATA					
ZONE	DATE	Start Depth	End Depth	Test Class	Head Size

STIMULATION DATA							
ZONE	DATE	Volume	Prep	Max AD Conc	Yield (lb)	Max Prod (ppg)	24 Hr Prod (ppg)

**Operations Summary**

Date: 4/15/2009  
 02/14/08 WELL SOLD TO GAS FIELD SERVICES APRIL 1, 2008.  
 Date: 4/14/2009  
 02/28/08 RU SLE W/ PUMPED 12 BBL FRESH WATER DOWN THE TUBING INTO THE SHALE THEN WELL WENT ON VACUUM PUMPED @ 3.0 BBL/MIN - OR. 4.5 BBL/MIN - @ 500' PUMPED 510 BBL INTO THE SHALE. INJECTED THROUGH THE ANNULUS OF TUBING AND 4-1/2" CASING INTO 6-C LINE. PUMPED 500 BBL OF FRESH WATER. 2.0 BBL/MIN - OR. 4.0 BBL/MIN - 100% SIGN EVALUATING.

Date: 8/30/08  
 02/28/08 RU SLE W/ PUMPED 12 BBL FRESH WATER DOWN THE TUBING INTO THE SHALE THEN WELL WENT ON VACUUM PUMPED @ 3.0 BBL/MIN - OR. 4.5 BBL/MIN - @ 500' PUMPED 510 BBL INTO THE SHALE. INJECTED THROUGH THE ANNULUS OF TUBING AND 4-1/2" CASING INTO 6-C LINE. PUMPED 500 BBL OF FRESH WATER. 3.0 BBL/MIN - OR. 4.0 BBL/MIN - 100% SIGN EVALUATING.

Date: 8/29/2009  
 09/22/08 RAN 146 JTS 2 3/8" x 14 7/8" TUBING, SET @ 4893.45' 4-1/2" PACKER SET @ 4893.13'

Date: 9/25/2009  
 09/25/08 MURKIN GAS SERVICE RIG FULLED 2X - 750 BBL TANKS FOR INJECTION TEST SOON.

Date: 9/29/2009  
 4/27/07 EVALUATING

Date: 8/17/2007  
 4/27/07 1800 SICP. SWABBED HIT FLUID @ 2320. SWABBED TO 4800'. FLUID STAYING AT 4800'. 8 HR OPEN FLOW - 20 TENTHS ON 2" - 47 MCF/D. EVALUATING

Date: 4/27/2007  
 4/23/07 1800 SICP. SWABBED TO 5100'. FLUID (URINE) LEVEL STAYING @ 5100' MAKING @ 10 BBL/HR OF BRINE IF SWABBED. 8 HR OPEN FLOW - LIQUID NOT MEASURE ON 2" - <50 MCF/D

Date: 4/28/2007  
 04/25/07 SICP - 2000' SWABBED TO 4500' WELL SURGING. 8 HR OPEN FLOW - 18 TENTHS ON 2" - 179 MCF/D

Date: 4/25/2007  
 4/24/07 1700 SICP. COLD OUT REMAINING BAFFLES AND CHECKED TO 2 1/2" SAND PUMPED TO 5700'. WELL SURGING. 8 HR OPEN FLOW - 16 TENTHS ON 2" - 168 MCF/D SIGN

Date: 4/24/2007  
 04/23/07 M. GAS SWAB RIG. 7200 SICP. COLD OUT BAFFLE @ 2330' WELL SURGING. 8 HR OPEN FLOW - 20 TENTHS ON 2" - 165 MCF/D. S.O.N.

Date: 4/22/2007  
 04/17/07 FLOWED WELL ON THROUGHOUT DAY BLOWING WITH STEADY WEIGHT MIST. 24 HR OPEN FLOW - 24 ON 2" - 139 MCF/D.

Date: 4/18/2007  
 4/17/07 REFORMED 4 STAGE FRAC W/ S&S AND KEY ENERGY

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**Dominion**

**WELL DETAIL SUMMARY REPORT**

Today: 4/18/2009 Page 9  
As Of: 4/15/2009

WELL: SWW 14397 U.S.L.S. ROY O

Event: 1

Description: DEVELOPMENT DRILL & COMPLETION

**Operations Summary**

LOWER HURON (1) 5510'-5720' (20 HOLES) - 75 Q FOAM FRAC - 15.171# 20/40 SAND, 152 BBL CLEAN FLUID, 444,000 SCF N2, BDP 2555#, ATP 2810#, AIR 25.1 BPM  
UPPER HURON (2) 5120'-5124' (20 HOLES) PUMPED 500 GAL 15% HCL (DROPPED 3 1/4" FRAC BALL) - 75 Q FOAM FRAC - 20.024# 20/40 SAND, 159 BBL CLEAN FLUID, 420,700 SCF N2, BDP 3020#, ATP 2667#, AIR 25.1 BPM  
SHALE FRACTURE (3) 4908'-4910' (21 HOLES) PUMPED 500 GAL 15% HCL (DROPPED 3 3/8" FRAC BALL) - 75 Q FOAM FRAC - 15.278# 20/40 SAND, 147 BBL CLEAN FLUID, 272,200 SCF N2, BDP 2515#, ATP 2118#, AIR 25.1 BPM  
PICKAWAY (4) 2500'-2572' (12 HOLES) - PUMPED 500 GAL 15% HCL (DROPPED 3 1/2" FRAC BALL) - ACID/N2 ASSIST - 3000 GAL OF 28% HCL, 98 BBL CLEAN FLUID, 46,200 SCF N2, BDP 1500#, ATP 960#, AIR 10 BPM  
LIME FRACTURE (5) 2282'-2272' PUMPED 500 GAL 15% HCL (DROPPED 3 3/4" FRAC BALL) - ACID / N2 ASSIST - 3000 GAL OF 28% GELLED ACID, 70 BBL CLEAN FLUID, 50,400 SCF N2, BDP 1458#, ATP 947#, AIR 10 BPM ISIP 1154#, MAIN SIP 1071#. OPENED WELL ON 3/8" CHOKE TO PIT AND WORKED UP TO 2" OVERNIGHT. 1 1/4" ON 2" AND RECOVERED 2 FRAC BALLS, 2 FRAC BALL REMAINING. FLOWING WELL TO PIT ON 2" (REPORT TIME 4/18)

Date: 4/17/2007  
4/16/07 RU KEY ENERGY AND HANBOND LOG. TD - 5817'. TOC - 1140'.

Date: 4/16/2007  
4/15/07 RDIMO GASCO RIG #3

Date: 4/9/2007  
4/8/07 DRILL 6-1/2" HOLE THROUGHOUT DAY. TD 6-1/2" HOLE @ 5073' ON A/D TOOH LOGGED W/ WFT. LTD - 5875' PAY ZONES IN LOWER HURON, UPPER HURON, DEVONIAN SHALE FRACTURES, PICKAWAY AND UNION. RAN 137 JTS 4 1/2" (MES, 9.5#) CSG PLUS 3 PUPS, TP 5324' SET @ 4828' KB. LD INSERT - 5818'. RAN 7 CENTRALIZERS AND 3 BASKETS 3.00" BAFFLE - 5519', 3.205" BAFFLE - 4667' 3.385" BAFFLE - 2875', 3.60" BAFFLE - 2335'. MARKER JT - 2155' - 2165'. GAS CHECK @ TD AFTER CSG - TRACE RU SLB AND CEMENT W/ 410 SAX CBL POZ (1.42 YLD). PUMPED 3 BBL FW AHEAD. DISPLACED W/ 500 GAL 15% HCL AND 83 BBL TV. GTS PD @ 7:20 AM (4/7) BUMPED PLUG TO 8204'. SDOV. WAITING TO BOND LOG. (REPORT 4/8) 323' LAST 24 HOURS

4/5/07 DRILL 6-1/2" HOLE THROUGHOUT DAY. DRLG 6-1/2" HOLE ON A/D @ 5550'. 1170' LAST 24 HOURS

Date: 4/5/2007  
4/4/07 DRILL 6-1/2" HOLE THROUGHOUT DAY DRLG 6-1/2" HOLE ON A/D @ 4366' GAS CHECKS - 3200' - 133 MCF/D, 3400' - 133 MCF/D, 3700' - 133 MCF/D, 4200' - 133 MCF/D RIG BROKE DOWN (REPORT 4/5 - 8:30AM) 1630' LAST 24 HOURS

Date: 4/4/2007  
4/3/07 FINISH WOC. TIH W/ 6-1/2" HAMMER BIT AND RESUME DRLG. DRLD 6-1/2" HOLE THROUGHOUT DAY GAS CHECK @ 2281' - 12 TENTHS ON 7" - 1.519 MMCF/D. GAS CHECK @ 2502' - 1 TENTHS ON 7" - 877 MCF/D DRLG 6-1/2" HOLE ON A/D @ 2750' (4/4) 1434' LAST 24 HOURS

Date: 4/3/2007  
4/2/07 TD 8-7/8" HOLE @ 1315' ON A/D. MADE BIT TRIP @ 1050'. TOOH. RAN 29 JTS 7" (17#, LS) CSG SET 1231'. RU SLB AND CEMENT W/ 230 SAX OF CLASS A - 2% CACL2 - 1/4 PPS FLAKE (1.20). GTS PD @ 11:30 PM. WOC. (REPORT TIME 4/3) 516' LAST 24 HOURS

Date: 4/2/2007  
4/1/07 FINISH WOC. TIH W/ 8-7/8" HAMMER BIT. RESUME DRLG. DRLD TO 310' HIT 2" WATER STREAM. CONT. DRLG TO 350' TOOH. TIH W/ OPENENDED DRILL PIPE. RU SLB AND CEMENT 60 SKS CEMENT PLUG W/ TYPE I + 10 PPS GYPSUM + 2% CACL2 + 10 PPS KOLITE (13.8 PPG, 1.79 CF/SK). JOB COMPLETED @ 5:00 PM. WOC. TIH W/ 8-7/8" HAMMER BIT AND RESUME DRLG. DRLG 8-7/8" HOLE @ 860' ON A/D 450' LAST 24 HOURS

3/31/07 RU SLB AND CEMENT 9-5/8" W/ 200 SAX OF CLASS A + 2% CACL2 + 1/4 PPS FLAKE (1.20). GTS (100 SKS). PD @ 5:30AM. WOC. TIH W/ 8-7/8" HAMMER BIT AND RESUME DRLG. ENCOUNTERED 3" STREAM OF WATER @ 225'. TOOH. RU SUPERIOR AND SQUEEZED 50 SKS OF TYPE I + 10 PPS GYPSUM + 2% CACL2 + 10 PPS KOLITE (13.8 PPG, 1.78 CF/SK). JOB COMPLETED @ 11:30 PM BEGIN WOC. 1" LAST 24 HOURS

3/29/07 MIRJ GASCO RIG #3. SPUD WELL @ 7:00 PM. SET 21" 12-3/4" CONDUCTOR. TIH W/ 12-1/4" HAMMER BIT AND BEGIN DRLG. ENCOUNTERED 2" WATER STREAM @ 22' ENCOUNTERED 3" WATER STREAM @ 93'. TD 12-1/4" HOLE @ 226' ON FLUID TOOH. RAN 3 JTS 9-5/8" (20#, LS) CSG SET 225'. 225' LAST 24 HOURS

Date: 2/27/2007  
3/29/07 WILL MOVE IN GASCO RIG #3 TODAY

Date: 2/25/2007  
2/23/07 BUILDING LOCATION

Date: 7/31/2006  
07/27/06 BUILDING LOCATION

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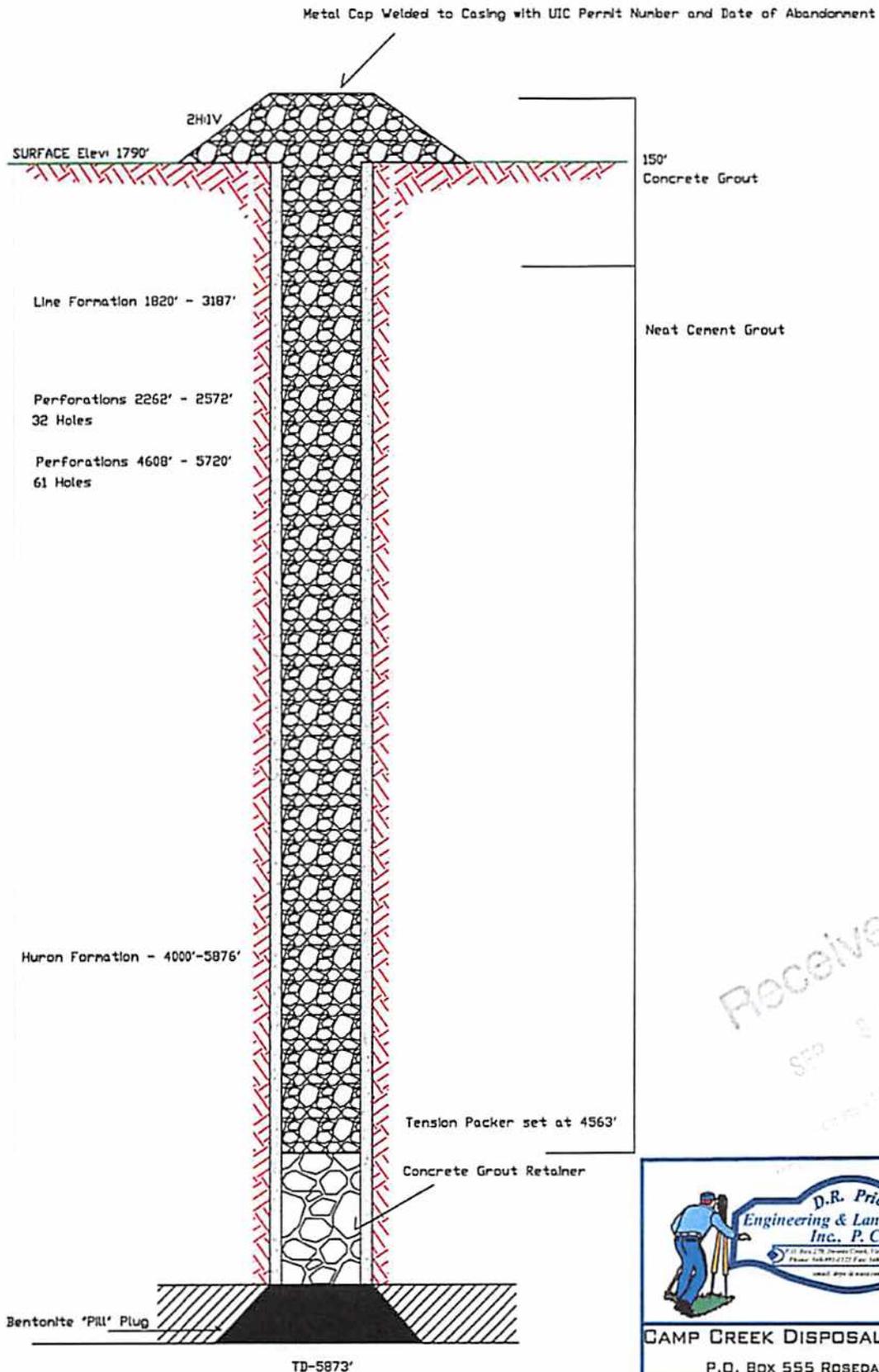
**Appendix C  
Disposal Well Schematic**

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# DISPOSAL WELL SCHEMATIC

Note: Not Drawn to Scale



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CAMP CREEK DISPOSAL SERVICES, INC.



CAMP CREEK DISPOSAL SERVICES, INC.  
P.O. Box 555 ROSEDALE, VA 24280

UNDERGROUND INJECTION WELL  
Plugging and Abandonment Plan

**Appendix D  
Plugging Permit Packet**

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1) Date: \_\_\_\_\_  
2) Operator's Well Number \_\_\_\_\_

3) API Well No.: 47 - \_\_\_\_\_ - \_\_\_\_\_

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL**

<p>4) Surface Owner(s) to be served:</p> <p>(a) Name _____ Address _____</p> <p>(b) Name _____ Address _____</p> <p>(c) Name _____ Address _____</p> <p>6) Inspector _____ Address _____  Telephone _____</p>	<p>5) (a) Coal Operator</p> <p>Name _____ Address _____</p> <p>(b) Coal Owner(s) with Declaration</p> <p>Name _____ Address _____</p> <p>(c) Coal Lessee with Declaration</p> <p>Name _____ Address _____</p>
---	---

**TO THE PERSONS NAMED ABOVE:** You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

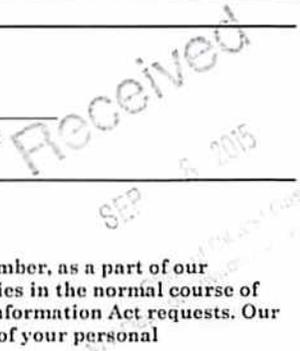
Well Operator \_\_\_\_\_  
By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Address \_\_\_\_\_  
  
Telephone \_\_\_\_\_

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_ Notary Public

My Commission Expires \_\_\_\_\_

**Oil and Gas Privacy Notice**

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at [depprivacyofficer@wv.gov](mailto:depprivacyofficer@wv.gov).



WW-4B  
Rev. 2/01

1) Date \_\_\_\_\_, 20\_\_\_\_  
2) Operator's  
Well No. \_\_\_\_\_  
3) API Well No. 47-\_\_\_\_-\_\_\_\_

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_\_/ Gas \_\_\_\_/ Liquid injection \_\_\_\_/ Waste disposal \_\_\_\_/  
(If "Gas, Production \_\_\_\_ or Underground storage \_\_\_\_) Deep \_\_\_\_/ Shallow \_\_\_\_

5) Location: Elevation \_\_\_\_\_ Watershed \_\_\_\_\_  
District \_\_\_\_\_ County \_\_\_\_\_ Quadrangle \_\_\_\_\_

6) Well Operator \_\_\_\_\_ 7) Designated Agent \_\_\_\_\_  
Address \_\_\_\_\_ Address \_\_\_\_\_  
\_\_\_\_\_

8) Oil and Gas Inspector to be notified 9) Plugging Contractor  
Name \_\_\_\_\_ Name \_\_\_\_\_  
Address \_\_\_\_\_ Address \_\_\_\_\_  
\_\_\_\_\_

10) Work Order: The work order for the manner of plugging this well is as follows:

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector \_\_\_\_\_ Date \_\_\_\_\_

Received  
SEP 11 2008  
Office of Oil and Gas  
WW Dept. of Environmental Protection

# SURFACE OWNER WAIVER

Operator's Well  
Number \_\_\_\_\_

## INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

### NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas  
Department of Environmental Protection  
601 87<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have FIVE (5) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Comments must be in writing. Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

### VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON  
ETC.

FOR EXECUTION BY A CORPORATION,

Received  
2015

_____	Date	_____	Name	_____
Signature		By	Its	Date
		_____	_____	_____
		Signature		Date

WW-4B

API No. \_\_\_\_\_  
Farm Name \_\_\_\_\_  
Well No. \_\_\_\_\_

**INSTRUCTIONS TO COAL OPERATORS  
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

**WAIVER**

The undersigned coal operator \_\_\_\_/ owner \_\_\_\_/ lessee \_\_\_\_/ of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: \_\_\_\_\_

\_\_\_\_\_  
By: \_\_\_\_\_  
Its \_\_\_\_\_

Received  
SEP 15 2015  
OFFICE OF OIL AND GAS  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

WW-9  
(5/13)

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. \_\_\_\_\_

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS**

**FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN**

Operator Name \_\_\_\_\_ OP Code \_\_\_\_\_

Watershed (HUC 10) \_\_\_\_\_ Quadrangle \_\_\_\_\_

Elevation \_\_\_\_\_ County \_\_\_\_\_ District \_\_\_\_\_

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_\_\_ No \_\_\_\_\_

Will a pit be used for drill cuttings? Yes \_\_\_\_\_ No \_\_\_\_\_

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes \_\_\_\_\_ No \_\_\_\_\_ If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- \_\_\_\_\_ Land Application
- \_\_\_\_\_ Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_ )
- \_\_\_\_\_ Off Site Disposal (Supply form WW-9 for disposal location)
- \_\_\_\_\_ Other (Explain \_\_\_\_\_)

Will closed loop system be used? \_\_\_\_\_

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. \_\_\_\_\_

-if oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. \_\_\_\_\_

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? \_\_\_\_\_

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature \_\_\_\_\_

Company Official (Typed Name) \_\_\_\_\_

Company Official Title \_\_\_\_\_

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

Notary Public

My commission expires \_\_\_\_\_

**Received**  
SEP 8 2015  
OFFICE OF OIL AND GAS  
WV DEPT. OF ENVIRONMENTAL PROTECTION

Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ Prevegetation pH \_\_\_\_\_

Lime \_\_\_\_\_ Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer (10-20-20 or equivalent) \_\_\_\_\_ lbs/acre (500 lbs minimum)

Mulch \_\_\_\_\_ Tons/acre

Seed Mixtures

Seed Type	Area I		Seed Type	Area II	
		lbs/acre			lbs/acre
_____			_____		
_____			_____		
_____			_____		

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

Received  
SEP 8 2015  
Office of the Field Cms  
WV Dept. of Environment & Natural Resources

WW-9  
(2/15)

API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. \_\_\_\_\_

**STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OFFICE OF OIL AND GAS**

**FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN**

Operator Name \_\_\_\_\_ OP Code \_\_\_\_\_

Watershed (HUC 10) \_\_\_\_\_ Quadrangle \_\_\_\_\_

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: \_\_\_\_\_

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.? \_\_\_\_\_

Proposed Disposal Method For Treated Pit Wastes:

- \_\_\_\_\_ Land Application
- \_\_\_\_\_ Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- \_\_\_\_\_ Reuse (at API Number \_\_\_\_\_ )
- \_\_\_\_\_ Off Site Disposal (Supply form WW-9 for disposal location)
- \_\_\_\_\_ Other (Explain \_\_\_\_\_)

Will closed loop system be used? If so, describe: \_\_\_\_\_

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. \_\_\_\_\_

-If oil based, what type? Synthetic, petroleum, etc. \_\_\_\_\_

Additives to be used in drilling medium? \_\_\_\_\_

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. \_\_\_\_\_

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? \_\_\_\_\_

**Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.**

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature \_\_\_\_\_

Company Official (Typed Name) \_\_\_\_\_

Company Official Title \_\_\_\_\_

Subscribed and sworn before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_

\_\_\_\_\_  
Notary Public

My commission expires \_\_\_\_\_

**RECEIVED**

**SEP 8 2015**

**OFFICE OF OIL AND GAS**

Operator's Well No. \_\_\_\_\_

Proposed Revegetation Treatment: Acres Disturbed \_\_\_\_\_ Prevegetation pH \_\_\_\_\_

Lime \_\_\_\_\_ Tons/acre or to correct to pH \_\_\_\_\_

Fertilizer type \_\_\_\_\_

Fertilizer amount \_\_\_\_\_ lbs/acre

Mulch \_\_\_\_\_ Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

Seed Type                      lbs/acre

Seed Type                      lbs/acre

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Attach:**

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Field Reviewed?      (    ) Yes

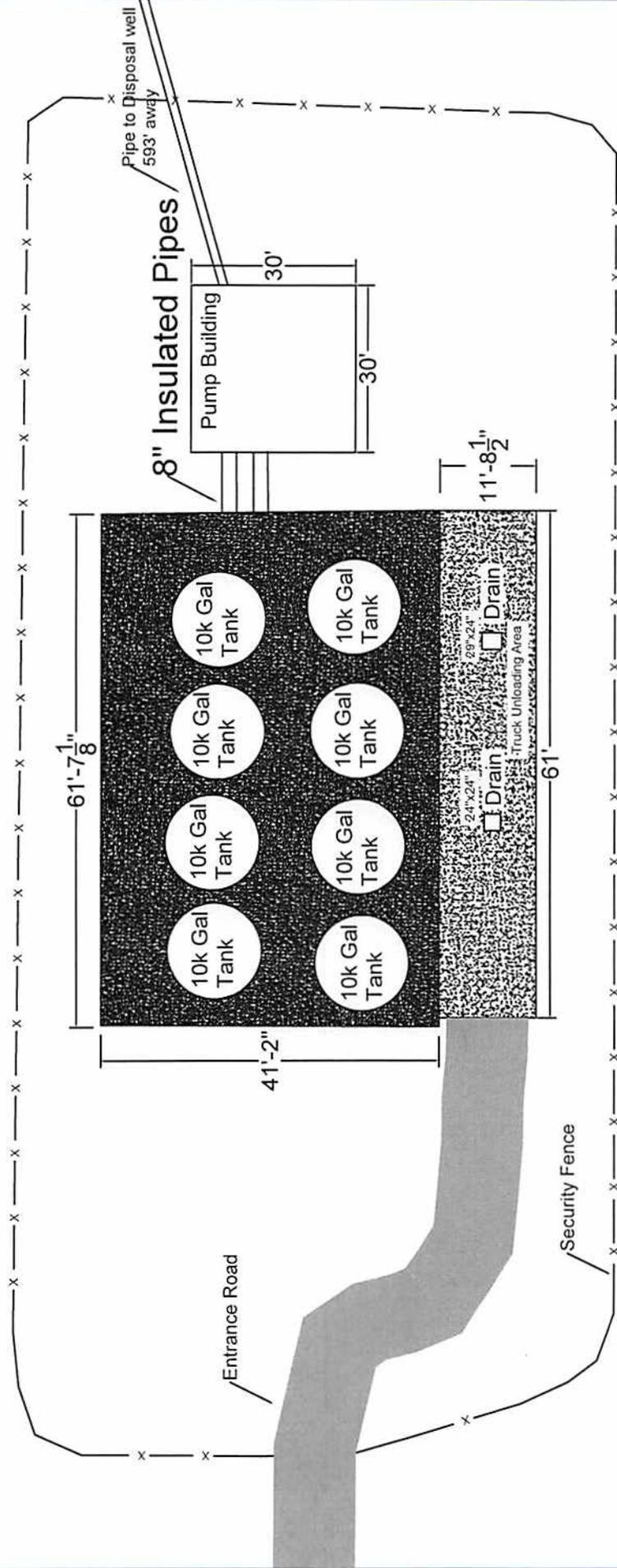
(    ) No

Received

SEP 8 2013  
Office of Oil and Gas  
WV Dept. of Environmental Protection

# Attachment 2

## Aerial View



1. The drains in the truck unloading area are recirculated back into the disposal well.
2. First two tanks closest to pump building are used for containment.
3. Two 8" insulated pipes transport fluid to the pump

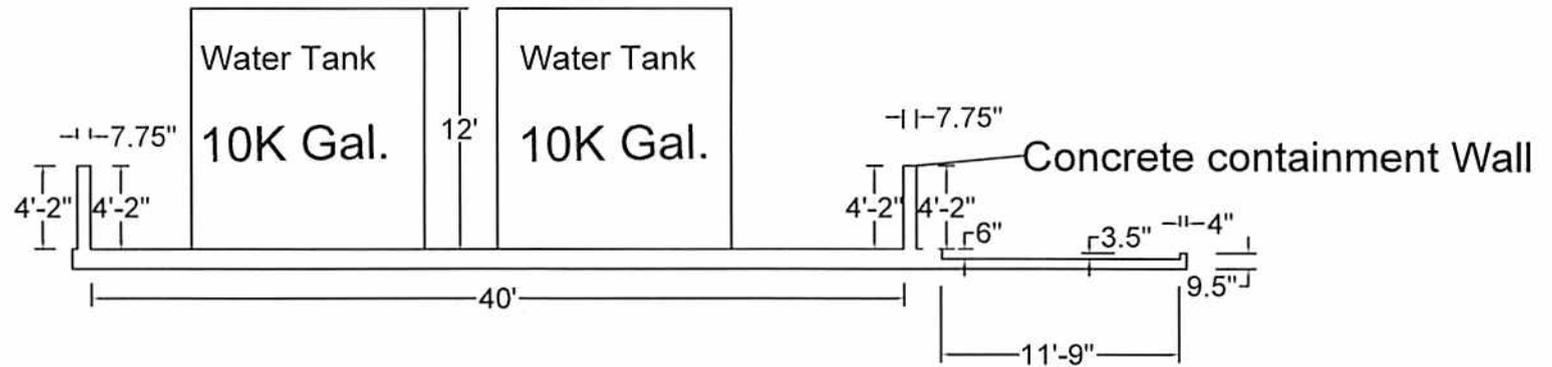


**Camp Creek Disposal Services**  
**P.O. BOX 555**  
**Rosetate, VA 24260**

SECONDARY CONTAINMENT  
 SYSTEM  
 AERIAL VIEW  
 Scale: ~1"-20'

# Attachment 2 Cont.

## Cross Section View



1. The volume of the containment is 7,660.9 cf. (54,926 gal.)
2. Tanks are single walled plastic.
3. Containment is constructed of cinder block and concrete



**Camp Creek Disposal Services**  
P.O. BOX 555  
Rosedale, VA. 24260

SECONDARY CONTAINMENT  
SYSTEM  
CROSS SECTION VIEW

Scale: 1/4"=10'

## Attachment 3

### Procedure: Mechanical Integrity Test (MIT)

The Permittee shall utilize a pressure recording device to continuously record the injection pressure.

The 2 3/8" X 4 1/2" annulus currently maintains a consent pressure greater than 200 hundred (200) psi. The Permittee shall utilize a pressure recording device with a resolution of one tenth (0.1) psi to continuously record the annulus pressure during the MIT.

Upon connection of the recording devices, the Permittee shall establish a baseline of five (5) minutes to establish an annulus stability pressure. Once stabilized, the Permittee shall commence injection at a pressure not to exceed one thousand four hundred sixty five (1465) psi for a period of twenty (20) minutes. However, the mechanical integrity injection pressure shall be executed at a minimum 200 psi greater than the established annulus daily baseline pressure.

**\*(annulus stability pressure + 200 psi) ≤ mechanical integrity injection pressure < maximum permitted injection pressure 1465 psi\***

A deviation ± 25 psi of the annulus pressure shall constitute a MIT failure.

Step 1: Connect the pressure recording devices. (Resolution of one tenth (0.1) psi)

Step 2: Document shut in pressure of both the injection pressure and annulus pressures. (5 minute stability)

Step 3: Commence injection at maximum permitted injection pressure (one thousand four hundred sixty five (1465) psi)

Step 4: Maintain maximum achieved able injection pressure for a period of fifteen (20) minutes.

Step 5: Shut in the injection tubing for at least fifteen (15) minutes. (Continue to record the pressure fall off)



## **RIGHT OF APPEAL**

Notice is hereby given of your right to appeal the terms and conditions of this permit of which you are aggrieved to the Environmental Quality Board by filing a NOTICE OF APPEAL, on the form prescribed by such Board for this purpose, in accordance with the provisions of Section 21, Article 11, Chapter 22 of the Code of West Virginia within thirty (30) days after the date of receipt of this permit.

**Underground Injection Control Permit**

**CERTIFICATION DOCUMENT**

**West Virginia Department of Environmental Protection  
Office of Oil and Gas**

**Permit Id: 2D0550319**

**Permit Name: Camp Creek Disposal Services, Inc.**

**In accordance with Part II, Reporting and Notification Requirements, I hereby certify that I have read and am personally familiar with all the terms and conditions of this permit.**

**I understand that the underground injection of any waste streams other than those provided for in this permit is strictly prohibited. I understand that failure to pay the Annual Permit Fee or any other associated fees required by West Virginia Code, Chapter 22, Articles 11 and 12 shall be cause for revocation of this Permit. I further understand that reporting is required, and noncompliance with the terms of this permit will be cause for revocation of the permit and subject me to significant penalties including the possibility of fines and imprisonment.**

---

**Signature**

---

**Name and Title (Type or Print)**

---

**Date**