

**AUTHORIZATION TO OPERATE AN
UNDERGROUND INJECTION CONTROL
(UIC) CLASS 2 INJECTION WELL
PERMIT NUMBER No. 2D08701623002**

ISSUE DATE: April 16, 2024

EXPIRATION DATE: April 16, 2029

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 9, Series 13, Series 55 and Series 58, and Title 35 Series 1 and Series 4,

David Dale DBA DD Oil Company
P. O. Box 406
Spencer, WV 25276

(Non-Commercial)
FACILITY TYPE: Brine Disposal
WELL API No.: 47-087-01623
WELL NAME: Summers 7

is authorized by this permit to inject Class 2 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 Big Injun Sandstone in accordance with the conditions set forth herein. The permitted injection depth shall be 2,070 feet to 2,124 feet. The injection well is located in Walton District, Roane County, Walton 7.5' Quadrangle. The coordinates for this injection well are:

UTM NAD 83 (meters) Northing 4276910, Easting 466837.7
Latitude 38.640116, Longitude -81.38105

The maximum permitted wellhead injection pressure (MIP) is established as 500 psi. The minimum test pressure is established at 550 psi (500 x 1.1). The MIP may be reduced based on the most recent Pre-Operation Certificate (WR-37 form). The MIP may be raised at the discretion of the Chief based on a Step Rate test approved in advance, witnessed by the inspector, and documented upon completion.

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

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. SPECIAL PERMIT CONDITIONS

- 1. Injectate Samples.** The Permittee shall sample, analyze and record the nature of the injected fluid for the parameters listed in TABLE 1 (Part IV.B.13) on a twelve (12) month schedule so that sampling will be completed at least once per calendar year, or upon request of the Chief, or whenever the Permittee observes or anticipates a change in the injection fluid, to yield representative data on their physical, chemical, or other relevant characteristics. New facilities shall submit a representative sample prior to the initiation of injection operations. The Permittee shall take the sample at or before the wellhead for analysis. Samples and measurements shall be representative of the monitored activity. The Permittee shall utilize applicable analytical methods and test results shall be submitted to the Office of Oil and Gas with complete laboratory analysis data sheets (report). Any analysis of injectate with a specific gravity result greater than 1.2 shall be reported to the Chief within twenty-four (24) hours of the results.

PART II

A. FEES

- 1. Annual Permit Fee.** Any person who holds a permit shall pay an annual permit fee in accordance with the provisions of Legislative Rule 47 CSR 9-7 each year. The annual permit fee for a Class 2 disposal well is twenty-five dollars (\$25).
- 2. Groundwater Protection Fee.** Any person who holds a permit shall pay an annual groundwater protection fee of seventy-five dollars (\$75) each year for each Class 2D injection well in accordance with the provisions of Legislative Rule 47 CSR 55-3.
- 3. Fees Paid in Full Requirement.** The permit becomes void if the annual permit fees have not been paid within one hundred and eighty (180) days of the due date. The Chief shall not reissue a permit until all annual permit fees due during prior terms have been paid in full.

PART III

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, along with application fee payment, for a new permit at least one hundred and eighty (180) days before this permit expires.

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 number **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:

1. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water (USDWs); and
2. 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 West Virginia Code, Chapter 22, Article 11, Section 21 (WV Code §22-11-21) within thirty (30) days after the date of issuance of this 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 Code of Federal Regulations, Title 40, Chapter I, Subchapter D, Part 142 (40 CFR §142) 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 a breach of another applicable legal duty.

E. PERMIT ACTIONS

- 1. Permit Status Change.** This permit can be modified, revoked and reissued or terminated for cause specified in West Virginia Code, Chapter 22, Article 11 (WV Code §22-11), and Chapter 22, Article 12 (WV Code §22-12), and Legislative Rule 47 CSR 13. 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 Legislative Rule 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 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 III.E.1 of this permit. However, when through no fault of the Permittee the Office of Oil and Gas 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 III.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. (Legislative Rule 47 CSR 13-13.12.a) Copies of UIC Program regulations (WV Code §22-11) may be obtained from the West Virginia Legislature's Website <http://www.legis.state.wv.us/WVCODE/Code.cfm> and (Legislative Rule 47 CSR 13) may be obtained from the West Virginia Secretary of State's Website 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 and obtain a new permit as required in Part III.A of this permit at least one hundred and eighty (180) days before this permit expires.
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 include effective performance, adequate funding, adequate operating 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 Chief 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

- 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 Federal, 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.** In accordance with Legislative Rule 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. An affidavit or written request stating the need for requested confidential documents to remain confidential must also be submitted with the documents.
- a. 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; or
 - 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 under Part IV.B of 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. Prohibited Activity.** It shall be unlawful for any person, unless an authorization has been issued by a groundwater regulatory agency, to 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, pump line, impoundment, storage tank, treatment unit, or storage container, or be allowed to flow onto or under the land surface or in such a manner that could impact surface or 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 IV

A. RECORD RETENTION

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 Chief may require the Permittee/Operator to deliver the records to the Chief at the conclusion of the retention period.

B. MONITORING REQUIREMENTS

- 1. Sampling and Measurement.** 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. Monitoring Devices.** The Permittee shall install and maintain in good operating condition:
 - a.** A method or mechanism on the injection line(s) for obtaining a representative sample of injection fluids;
 - b.** Devices to continuously measure and record injection pressure, flow rates, injection and production volumes;
 - c.** Pressure gauges shall be of a design that provides a full pressure range of at least fifty (50) percent (%) greater than the anticipated operating pressure and a certified deviation accuracy of five (5) percent (%) or less throughout the operating pressure range; and
 - d.** Flow meters shall measure cumulative volumes and be certified for a deviation accuracy of five (5) percent (%) or less throughout the range of rates allowed by the permit.
- 3. Wellhead Pressure Gauge.** A wellhead pressure gauge shall be installed and maintained on the injection tubing to facilitate inspection and ensure compliance of the maximum wellhead injection pressures as approved on Office of Oil and Gas WR-37 Form. A daily reading of the maximum wellhead injection pressure shall be taken and reported on WR-40 Form.

- 4. Daily Monitoring.** 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 packer, injection zone or casing. The Permittee shall also monitor the daily maximum 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 WVDEP Electronic Submittal System (ESS): <https://apps.dep.wv.gov/eplogin.cfm>
- 5. Monitoring Records.** 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.
- 6. Injection Well Mechanical Integrity Testing (MIT).** The Permittee shall conduct a mechanical integrity test of the injection well at a minimum frequency of once every five (5) years per Legislative Rule 35 CSR 4-7.7.b. The Permittee shall notify the Chief of his or her intent to conduct a mechanical integrity test of the well no less than twenty-four (24) hours prior to such test. The maximum permitted injection pressure is **500** psi. The minimum test pressure is **550** psi (500 x 1.1). The pressure requirement of a mechanical integrity test on a well is a pressure of at least one hundred and ten (110) percent (%) or 1.1 times the maximum injection pressure. The pressure must be held for a period of at least twenty (20) minutes with no more than five (5) percent (%) pressure loss to be approved for injection operations. The Permittee must submit a WR-37 Form with the pressure recording graph/chart as an attachment to the Office of Oil and Gas within thirty (30) days of each mechanical integrity test conducted. Upon failure of a mechanical integrity test or expiration of the five (5) 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. Any MIT test that fails must be documented on a separate WR-37 Form. All repairs shall be completed by the Permittee within ninety (90) days of the failure date and approved by the Office of Oil and Gas prior to resuming operations. If repaired, the well must be re-tested and an updated WR-37 Form with pressure recording graph/chart must be submitted to the Office of Oil and Gas for approval.
- 7. Pump Line Mechanical Integrity Testing (MIT).** The Permittee shall conduct a mechanical integrity test of all pump line(s) from the holding tanks to the injection well at a minimum frequency of once every five (5) years. The Operator has the option of testing the pump line simultaneously with well or separately. The Permittee shall notify the Chief of his or her intent to conduct a mechanical integrity test of the pump line(s) no

less than twenty-four (24) hours prior to such test. The pump line integrity test shall pressurize the injection pump line(s) to at least one hundred (100) psi greater than the maximum permitted wellhead injection pressure for a minimum of twenty (20) minutes, allowing for no more than five (5) percent (%) loss after completion. The Permittee must submit a WR-37 Form with the pressure test recording graph/chart as an attachment to the Office of Oil and Gas within thirty (30) days of each mechanical integrity test conducted. Upon failure of a mechanical integrity test or expiration of the five (5) year mechanical integrity test regulatory period, the Permittee shall cease operation/injection and shut-in the well immediately until successfully repaired or replaced and then tested. Any MIT test that fails must be documented on a separate WR-37 Form. All repairs shall be completed by the Permittee within ninety (90) days of the failure date and approved by the Office of Oil and Gas prior to resuming operations. If repaired, the line must be re-tested and an updated WR-37 Form with pressure recording graph/chart must be submitted to the Office of Oil and Gas for approval. Any change made to the pump line fittings or piping will require integrity pressure testing. All Office of Oil and Gas forms, including the WR-37 Form can be found on the Office of Oil and Gas webpage: <http://www.dep.wv.gov/oil-and-gas/GI/Forms/Pages/default.aspx>

- 8. Additional MIT Requirements.** 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 a well failure is likely, or as requested by the Chief. The Permittee may continue operation only if they have 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. The Permittee must submit a written notification to Office of Oil and Gas within twenty-four (24) hours if mechanical integrity of the well is lost. The notification must include a plan to repair and retest of the well within ninety (90) days of the failure date.
- 9. Environmental Measurements.** 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. Certified laboratories can be found on the WVDEP webpage at <http://www.dep.wv.gov/WWE/Programs/lab/Pages/default.aspx>
- 10. Manifest Records.** 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, the location from where the load was obtained and 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 Office of Oil & Gas approved Class 2 disposal manifest form example, as attached to this permit.

11. Contract Haulers. No hauler whose trucks do not belong to the UIC Operator 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. All delivery manifest requirements must still be met.

12. Injectate Samples. The Permittee shall sample, analyze and record the nature of the injected fluid for the parameters listed in TABLE 1 (Part IV.B.13) on a twelve (12) month schedule so that sampling will be completed at least once per calendar year, or upon request of the Chief, or whenever the Permittee observes or anticipates a change in the injection fluid, to yield representative data on their physical, chemical, or other relevant characteristics. New facilities shall submit a representative sample prior to the initiation of injection operations. The Permittee shall take the sample at or before the wellhead for analysis. Samples and measurements shall be representative of the monitored activity. The Permittee shall utilize applicable analytical methods and test results shall be submitted to the Office of Oil and Gas with complete laboratory analysis data sheets (report). Any analysis of injectate with a specific gravity result greater than 1.2 shall be reported to the Chief within twenty-four (24) hours of the results.

TABLE 1

| | | |
|----------|-----------|------------------------------|
| Aluminum | Iron | pH |
| Arsenic | Manganese | Specific Gravity |
| Barium | Sodium | Total Dissolved Solids (TDS) |
| Bromide | Strontium | |
| Calcium | Sulfate | Radium-226 and Radium 228 |
| Chloride | | Gross Alpha and Gross Beta |

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 III.B.1 and 2, and Part IV.C.1 of this permit, at the time monitoring reports are submitted. The report shall contain the information listed in Part III.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 physical alterations, additions to the permitted facility, and/or any changes planned in the operation of the facility.

4. **Conversion and Abandonment Notification.** The Operator shall provide written notification to the Chief prior to conversion or abandonment of the well or in the case of area/enhanced recovery permits before closure of the project, per Legislative Rule 47 CSR 13-13.6.e. Notice should be given at least thirty (30) days prior to any conversion, abandonment or alteration. Notice shall also be given prior to the addition, reduction, or conversion of wells within an area/enhanced recovery permit.
5. **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 West Virginia Code, Chapter 22, Article 6, Section 24 (WV Code §22-6-24) unless the Operator furnishes satisfactory proof to the Chief that there is a bona fide future use for such well. All lines shall be completely drained of all fluids and the wellhead shut-in anytime injection operations cease for a period of greater than ninety (90) days. The Office of Oil and Gas must be contacted at least twenty-four (24) hours prior to the cessation shut-in process.
6. **Certification of 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. The Certification Document is included as an attachment of this permit, and must be signed, dated and submitted to the Office of Oil and Gas.
7. **Duty of Owner/Operator to Report Discharges.** The Owner or Operator or person in charge of a facility subject to this rule from which a reportable discharge, as described in Legislative Rule 35 CSR 1-3.3, occurs shall notify the Office of Oil and Gas by calling the Emergency Spill number **800-642-3074** immediately; but in no case, later than twenty-four (24) hours after becoming aware of the discharge.

PART V

A. OPERATING REQUIREMENTS

1. **Permit Documents On-Site.** The UIC Permit and all attachments must be kept on location at all times.
2. **Non-Commercial Permits.** The facility is permitted as a Non-Commercial operation and may Class 2 compliant fluids derived only from wells owned by the operator.
3. **Authorized Injection Fluids.** The Permittee shall not inject any hazardous substances, as defined by 40 CFR §261, or any other fluid, other than the Class 2 fluids produced solely in association with oil and gas production operations. This permit is for authorization of injection of only fluids as defined for Class 2 wells in Legislative Rule 47 CSR 13-4.2. Accepting any fluid that is not Class 2 compliant is grounds for enforcement action and/or revocation of this permit.

4. **Required Barrel Counter.** The Permittee shall install and maintain a barrel counter, or other means of flow volume metering, on the injection line. The results are to be recorded and reported on the WR-40 Form.
5. **Annulus Injection Prohibited.** Injection between the outermost casing protecting underground sources of drinking water and the wellbore is prohibited, as is injection into any USDW.
6. **Duty to Monitor or Plug Non-Cemented Wells That Penetrates the Injection Zone Within the AOR.** Any well with an inactive and/or abandoned status that penetrates the injection zone within the permitted Area of Review (AOR), that does not have cemented casing through the injection zone, shall be monitored immediately by a method approved by the Office of Oil and Gas or properly plug such wells as necessary.
7. **Corrective Action.** The Permittee must satisfy the requirements of the Office of Oil and Gas regarding any corrective action needed on all known wells penetrating the injection zone within the permitted Area of Review. This must be done in a manner which satisfies the requirements of Legislative Rule 47 CSR 13-13.9.
8. **Cement Evaluation Analysis.** After conducting a cement squeeze job in an open hole, or after any well cement repair, the Permittee shall submit cementing records and cement evaluation logs that demonstrate the isolation of the injection interval(s). The analysis shall include a spherically focused tool, run after the long-string casing is set and cemented, which enables the evaluation of the bond between cement and casing as well as of the bond between cement and formation. A written narrative report summarizing the work and interpretation of the results shall be submitted with all available records including an updated WR-35 well record and updated well schematic. The Permittee may not commence or recommence injection until it has received written approval from the Office of Oil and Gas that such a demonstration is satisfactory.
9. **Loading/Unloading Stations.** 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.
10. **Above Ground Storage Tanks.**
 - a. 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, shall that time be less than seventy-two (72) hours. The secondary containment structure shall have capacity to contain at least one hundred and ten (110) percent (%) volume of the largest tank. If tank batteries or tanks are connected in series by manifold, the combined volume of the tanks must be considered if the tanks are capable of simultaneous release. The combined capacity of the tanks connected by manifold shall be considered unless the tanks are operated in a manner that prevents fluids from flowing from one tank to another under any conditions.

- b. Above ground tanks connected in series by a manifold shall utilize a system where valves are closed and locked to isolate tanks when their combined volume exceeds the secondary containment capacity. At no time, shall the combined volume of the tanks be accessible through the manifold system exceed the capacity of the secondary containment without someone being on site to monitor.
 - c. All above ground storage tanks within the floodplain, as defined by the Federal Emergency Management Agency “FEMA” 100-year floodplain map, shall be anchored significantly enough to prevent movement in the case of a high-water flood event. The Permittee should contact the county floodplain manager to confirm the floodplain status of the tank(s) location(s).
- 11. Wellhead Reinforcement.** All wellheads shall be reinforced or otherwise armored to protect against accidental collisions, if so positioned where collision could be possible.
- 12. Pumps and Ancillary Equipment.** 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.
- 13. Sumps.** Sumps containing materials which have the potential to contaminate groundwater shall be designed, constructed, and operated utilizing secondary containment, or other appropriate controls that can prevent groundwater contamination.
- 14. Facility Security.** All valves, water drains, containment areas, and storage areas shall be secured and locked utilizing locking devices and/or plugs. All gates and access points shall be secured and locked while no representative is at the facility.
- 15. Duty to Drain Injection Pump Lines.** All lines shall be completely drained of all fluids and the wellhead shut-in anytime injection operations cease for a period of greater than ninety (90) days. The Office of Oil and Gas must be contacted at least twenty-four (24) hours prior to the cessation shut-in process.

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 WV Code §22-6, unless the Operator furnishes satisfactory proof to the Chief that there is a bona fide future use for such well.
- 2. Plugging and abandonment shall be conducted in a manner to prevent movement of fluids into or between USDWs (underground sources of drinking water).
- 3. Pursuant to Legislative Rule 47 CSR 13-13.7.f, the Permittee’s plugging and abandonment plan shall be incorporated into the UIC permit. See Attachment 1.

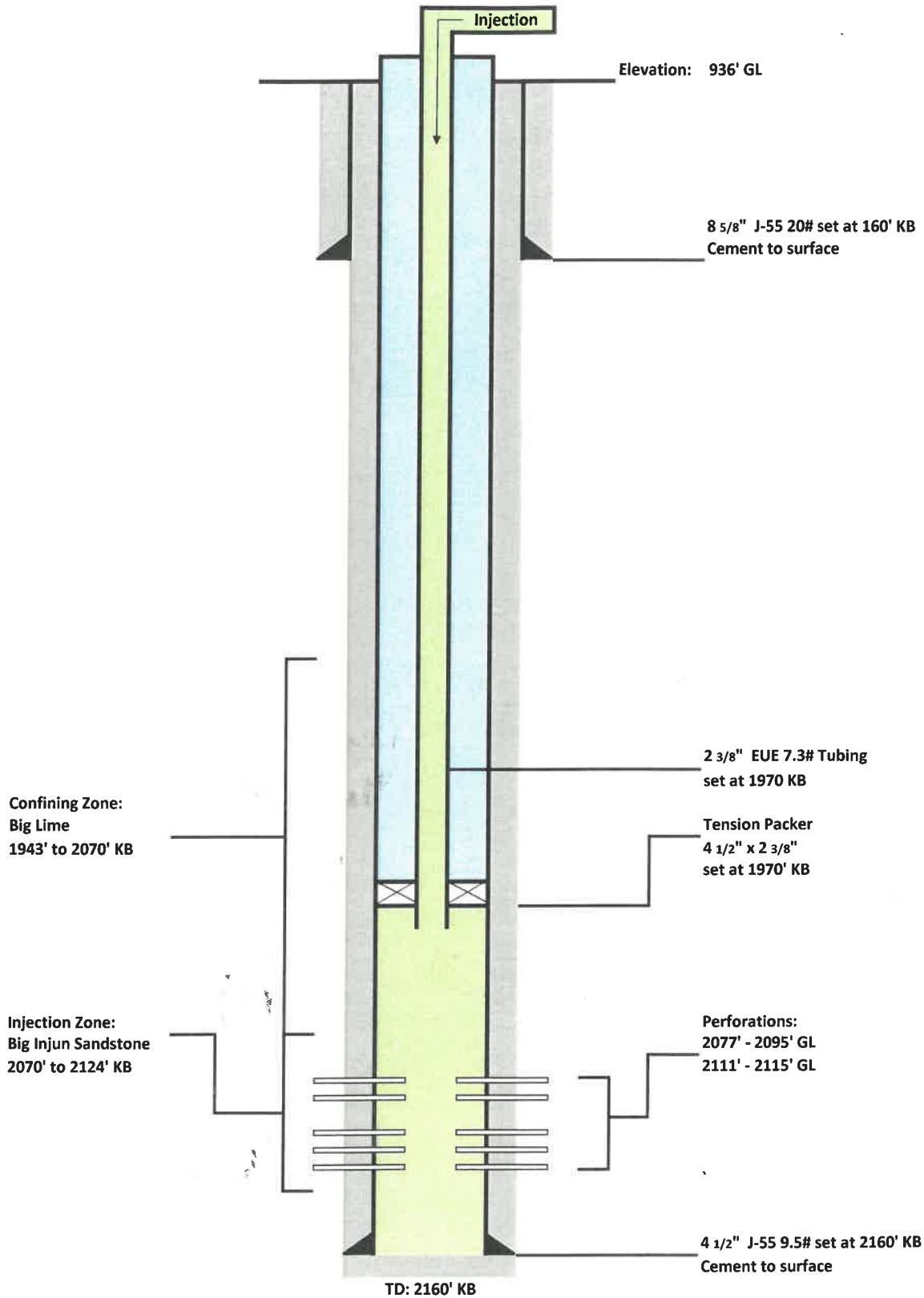
4. Prior to well plugging, the Permittee shall apply for and receive a plugging permit from the Office of Oil and Gas to plug and abandon the well in accordance with an approved plugging and abandonment plan.

PART VI

A. SITE SPECIFIC CONDITIONS

1. Appendix A: Specific Operational Conditions / Well Construction
2. Appendix H: Groundwater Protection Plan (GPP)
3. Appendix I: Requirement for Financial Responsibility to plug/abandon an injection well
4. Attachment 1: Plugging and Abandonment Plan
5. Attachment 2: Site/Facility Diagram
6. Class 2 Manifest
7. Right of Appeal
8. UIC Certification of Review

David Dale DBA DD Oil Company
Summers No. 7
47-087-01623



04/19/2024

4708701623

APPENDIX A Injection Well Form

1) GEOLOGIC TARGET FORMATION BIG INJUN SAND

Depth 2077' Feet (top) 2115' Feet (bottom)

2) Estimated Depth of Completed Well, (or actual depth of existing well): 2150' Feet

3) Approximate water strata depths: Fresh 120' Feet Salt 1650' Feet

4) Approximate coal seam depths: NONE

5) Is coal being mined in the area? Yes No

6) Virgin reservoir pressure in target formation 500 psig Source WV GEO SURVEY BLUE BOOK CIN 1909

7) Estimated reservoir fracture pressure 2000 PS LB psig (BHFP)

8) MAXIMUM PROPOSED INJECTION OPERATIONS:

Injection rate (bbl/hour) 2.375 BBL/HOUR

Injection volume (bbl/day) 57 BBL/DAY

Injection pressure (psig) 475-500 PSI832

Bottom hole pressure (psig) 8.32 THRU 4.5 BUT THROUGH 2 7/8 ' TUBING - 416 PSI

9) DETAILED IDENTIFICATION OF MATERIALS TO BE INJECTED, INCLUDING ADDITIVES:

PRODUCED SW ACID STICK TO KEEP IRON DOWN LO

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Temperature of injected fluid: (°F) 60 DEGREES

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10) FILTERS (IF ANY)

10 MICROS 30 INCHES LONG (7 OF THEM)
NO WATER FILTERS

11) SPECIFICATIONS FOR CATHODIC PROTECTION AND OTHER CORROSION CONTROL

CHANGED TO STAINLESS STEEL AND FIBERSPOR 2011 - NOV 23 FINISHED

4708701623

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 | | | | | | | |
| Fresh Water | 8 5/8 | NEW | | 20 LB FT | 160' | 160' | CTS |
| Coal | | | | | | | |
| Intermediate 1 | | | | | | | |
| Intermediate 2 | | | | | | | |
| Production | 4.5 | NEW | J55 | 9.5 LB FT | 2160' | 2160' | CTS |
| Tubing | 2 7/8 | NEW | EUE | 7.3 LB FT | 1970' | 1970' | |
| 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./sk)</u> | <u>Cement to Surface ? (Y or N)</u> |
|----------------|--------------------------|--------------------|-----------------------|-----------------------|--------------------|----------------------------------|-------------------------------------|
| Conductor | | | | | | | |
| Fresh Water | 11' | 8 5/8 | | | CLASS A | CTS | CTS |
| Coal | | | | | | | |
| Intermediate 1 | | | | | | | |
| Intermediate 2 | | | | | | | |
| Production | 7 7/8 | 4.5 | | | CLASS A | | |
| Tubing | | | | | | | |
| Liners | | | | | | | |

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| <u>PACKERS</u> | <u>Packer #1</u> | <u>Packer #2</u> | <u>Packer #3</u> | <u>Packer #4</u> |
|----------------|-----------------------|------------------|------------------|------------------|
| Kind: | TENSION 2 3/8 X 4 1/2 | | | |
| Sizes: | | | | |
| Depths Set: | 1970 KB | | | |





4708701623

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION
WELL RECORD

- Rotary
- Spudder
- Cable Tools
- Storage

Quadrangle Walton
Permit No. ROA-1623

Oil or Gas Well Injection
(KIND)

Company Joseph S. Gruss
Address Box 471, Spencer, W. Va.
Farm J. B. Summers Acres 105
Location (waters) McKown
Well No. 7 Elev. 936
District Walton County Roane
The surface of tract is owned in fee by George Moffatt
Address Walton, W. Va.
Mineral rights are owned by J. B. Summers, et al
Address Spencer, W. Va.
Drilling commenced 7-20-67
Drilling completed 7-29-67
Date Shot From To
With
Open Flow /10ths Water in Inch
/10ths Merc. in Inch
Volume Cu. Ft.
Rock Pressure lbs. hrs.
Oil Injection Well bbls. 1st 24 hrs.

| Casing and Tubing | Used in Drilling | Left in Well | Packers |
|-------------------|------------------|--------------|----------------|
| Size | | | Kind of Packer |
| 16 | | | |
| 13 | | | Size of |
| 10 | 150 | 150 | Depth set |
| 8 1/4 | | | |
| 6 1/4 | | | Perf. top |
| 5 3/16 | | | Perf. bottom |
| 4 1/2 | | | Perf. top |
| 3 | | | Perf. bottom |
| 2 | | | |
| Liners Used | | | |

WELL ACIDIZED (DETAILS)
WELL FRACTURED (DETAILS) 30,000# 20/40 Sand and 30,000 Gallons Gelled Salt Water

RESULT AFTER TREATMENT (Initial open Flow or bbls.) Injection Test - 8 B/M @ 1250 PSL
ROCK PRESSURE AFTER TREATMENT HOURS
Erosion Water Injection Feet Big Injun Salt Water
Depth 2077-2095 and 2111-2115

| Formation | Color | Hard or Soft | Top | Bottom | Oil, Gas or Water | Depth | Remarks |
|-----------|-------|--------------|-------------------|--------|-------------------|-------|---------|
| | | | <u>"ATTACHED"</u> | | | | |



SEP 11 1967

04/19/2024

DRILLER'S LOG

14

Joseph S. Gruss
Attn: Mr. Nickox
Spencer, West Virginia

I. B. SUMMERS #7 - ROANE COUNTY, WEST VIRGINIA

| | | | |
|------|----|------|-----------------------------|
| 0 | To | 75 | shaley sand shells |
| 75 | To | 152 | sand & shells |
| 152 | To | 165 | shale |
| 165 | To | 400 | shale, sandy shale & shells |
| 400 | To | 490 | sand |
| 490 | To | 540 | shale |
| 540 | To | 657 | sandy shale |
| 657 | To | 667 | lime |
| 667 | To | 870 | sandy shale & shale |
| 870 | To | 1020 | sand, shale & lime shells |
| 1020 | To | 1175 | sand, shaley and sand |
| 1175 | To | 1244 | shaley sand |
| 1244 | To | 1350 | shaley sand |
| 1350 | To | 1510 | shaley sand & shale |
| 1510 | To | 1555 | shaley sand |
| 1555 | To | 1620 | shaley lime w/sand streaks |
| 1620 | To | 1635 | salt sand |
| 1635 | To | 1885 | salt sand |
| 1885 | To | 1923 | shale |
| 1923 | To | 1927 | shaley sand & sand |
| 1927 | To | 1933 | sand |
| 1933 | To | 1965 | lime |
| 1965 | To | 2009 | lime |
| 2009 | To | 2054 | lime & dolomite |
| 2054 | To | 2066 | dolomite |
| 2066 | To | 2092 | sand |
| 2092 | To | 2110 | sandy shale |
| 2110 | To | 2117 | shaley sand |
| 2117 | To | 2150 | ilty shale |
| 2150 | | | T.D. |

AFFIDAVIT

STATE OF WEST VIRGINIA }
COUNTY OF WOOD } ss

I hereby certify that the Driller's Log is correct according to the Daily Drilling Report.

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July 9 5 2014
WV Department of Environmental Protection

MITCHELL & MITCHELL DRILLING CONTRACTORS

04/19/2024

(Handwritten signature)

APPENDIX H

GROUNDWATER PROTECTION PLAN

Facility Name: DD OIL WALTON FIELD DISPOSAL

County: ROANE

Facility Location:

| | | | |
|-------------------------|-------------|------------|-------------|
| Postal Service Address: | PO BOX 406 | | |
| SPENCER WV 25276 | | | |
| Latitude : | 81° 22' 30" | Longitude: | 38° 38' 00" |

Contact Information:

| | | | |
|-----------------|-----------------------|--|--|
| Person: | HUGH D DALE | | |
| Phone Number: | 304-550-0978 | | |
| E-mail Address: | hugh@drilcooilgas.com | | |

Date: 12/18/2020

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

| | |
|---|--|
| <p>PUMPS, PIPELINE, TANK LEAK AT WELL LOCATION, EQUIPMENT FAILURE</p> | <p>WV Department of Environmental Protection</p> |
|---|--|

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

| |
|---|
| <p>ALL PUMPS/TANKS ARE NEW PUMPS, NEW PIPELINE. NO EQUIPMENT IS OLDER THAN 10 YEARS. ALL SOURCES OF STORAGE ARE INSIDE DIKES AND ARE IN CONTAINMENT DIKE AND CHECKED DAILY.</p> |
|---|

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

| |
|---|
| <p>ALL SYSTEMS ARE NEWER. NOTHING PLANNED BUT ALL FLUID IN TANKS/LINES/PUMPS MAY REQUIRE FLUID REMOVAL BY VACUUM TRUCK.</p> |
|---|

04/19/2024



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

ALL ACTIVITIES ARE RAN WITH FULL COMPLIANCE WITH ALL RULE GUIDELINES OF PERMIT OF UIC WELL GUIDELINES

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

ALL WATER SOURCES HAVE BEEN TAKEN FOR ALL CREEKS, RIVERS. ALL GROUND WATER SOURCES 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.

THE SUMMERS 7 WELL, DD OIL COMPANY, API 047-087-01623 IS USED ONLY FOR BRINE DISPOSAL OF BRINE PRODUCED FOR DD OIL WELLS IN WALTON FIELD.

- 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.

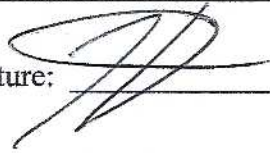
ALL EMPLOYEES HAVE RECEIVED TRAINING BY QUALIFIED ENVIRONMENTAL ENGINEERING FIRM.

ALL WERE TRAINED TO FOLLOW RULES/PERMIT CONDITIONS OF UIC PERMIT AND TANK STORAGE, AS WELL AS SPILL TRAINING.

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Environmental Protection

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

ALL TANKS/PUMPS/PIPELINE AND DISPOSAL WELL ARE CHECKED DAILY.

Signature:  _____

Date: 12/18/2020 _____

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APPENDIX I

Requirement for Financial Responsibility to Plug/Abandon an Injection Well


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

From: DD OIL CO
PO BOX 385
GRANTSVILLE, WV 26147

Date: 12/18/2020

Subject: Underground Injection Control (UIC) Permit Application
UIC 2D0871623
Requirement for Financial Responsibility

I, HUGH D DALE, 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: HUGH D DALE
 Signature: 
 Date: 12/18/2020

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WV Department of
 Environmental Protection

To Gene Smith W.V DEP

2-12-2016

API Number 2D0871623

D&D Oil Summons 7

6- Deficiency No. 6

Attached is plugged Schematic plug and abandonment.

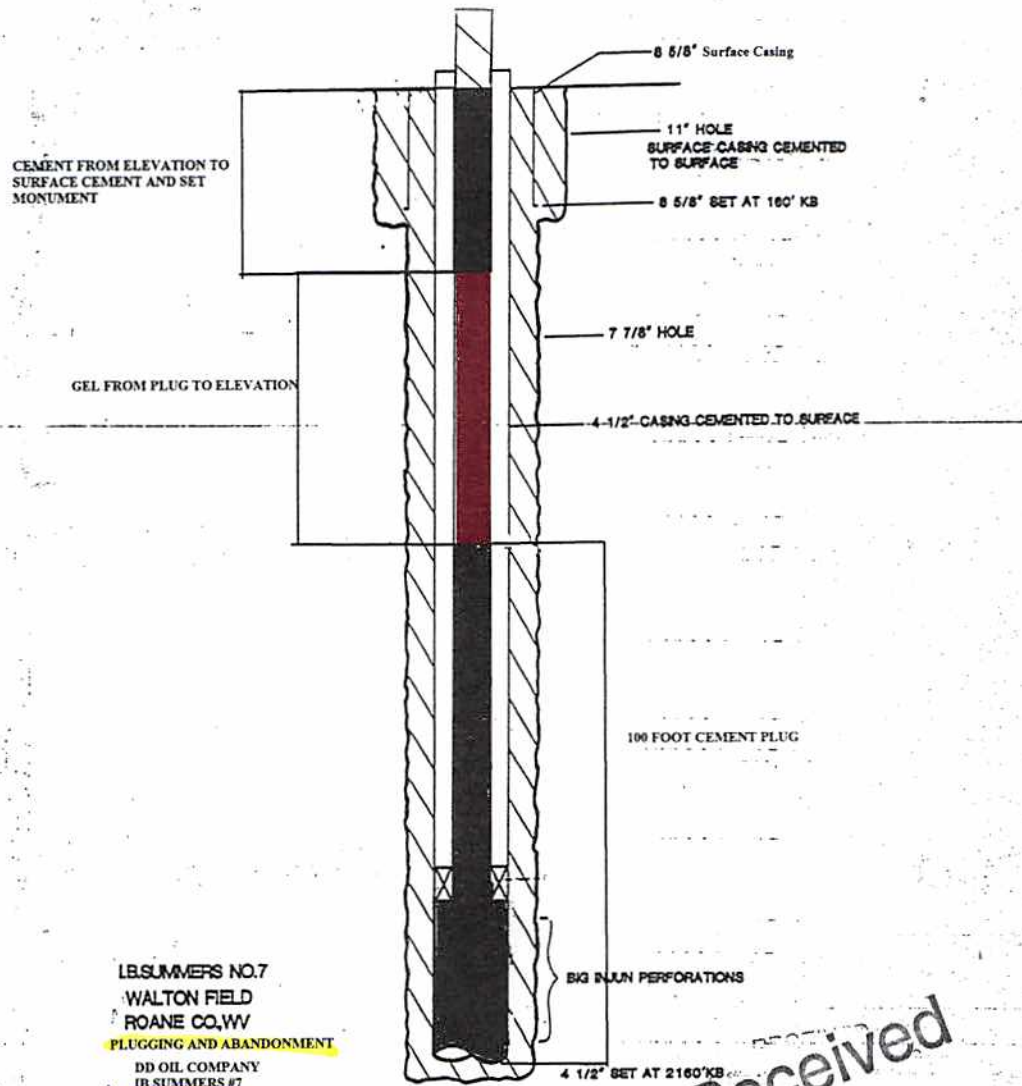
Procedure, first move in service rig and all necessary equipment to perform work. First, rig up on well, and pull all injection string tubing. 2 7/8 in well, set on tension release packer and pull tubing to surface. Remove packer from tubing then run tubing back in well within 100 foot of total depth. Displace bottom plug, on perforations 100 feet at last perforation at 2077 plus A 100 plug above 2077 wait 24 hours for plug to set then pull tubing up and displace Bentonite Gel to elevation to 936 Feet. Then spot a 100 Foot cement plug. Then, pull tubing used to displace Cement Gel, wait 4 hours then set a 100 foot plug to surface set monument attach API number to monument and reclaim land and location to state spec's. Turn in to DEP plugging permit, sign Affidavit to release well from operations bond.

Received

FEB 12 2016

Office of Oil and Gas
WV Dept. of Environmental Protection

04/19/2024



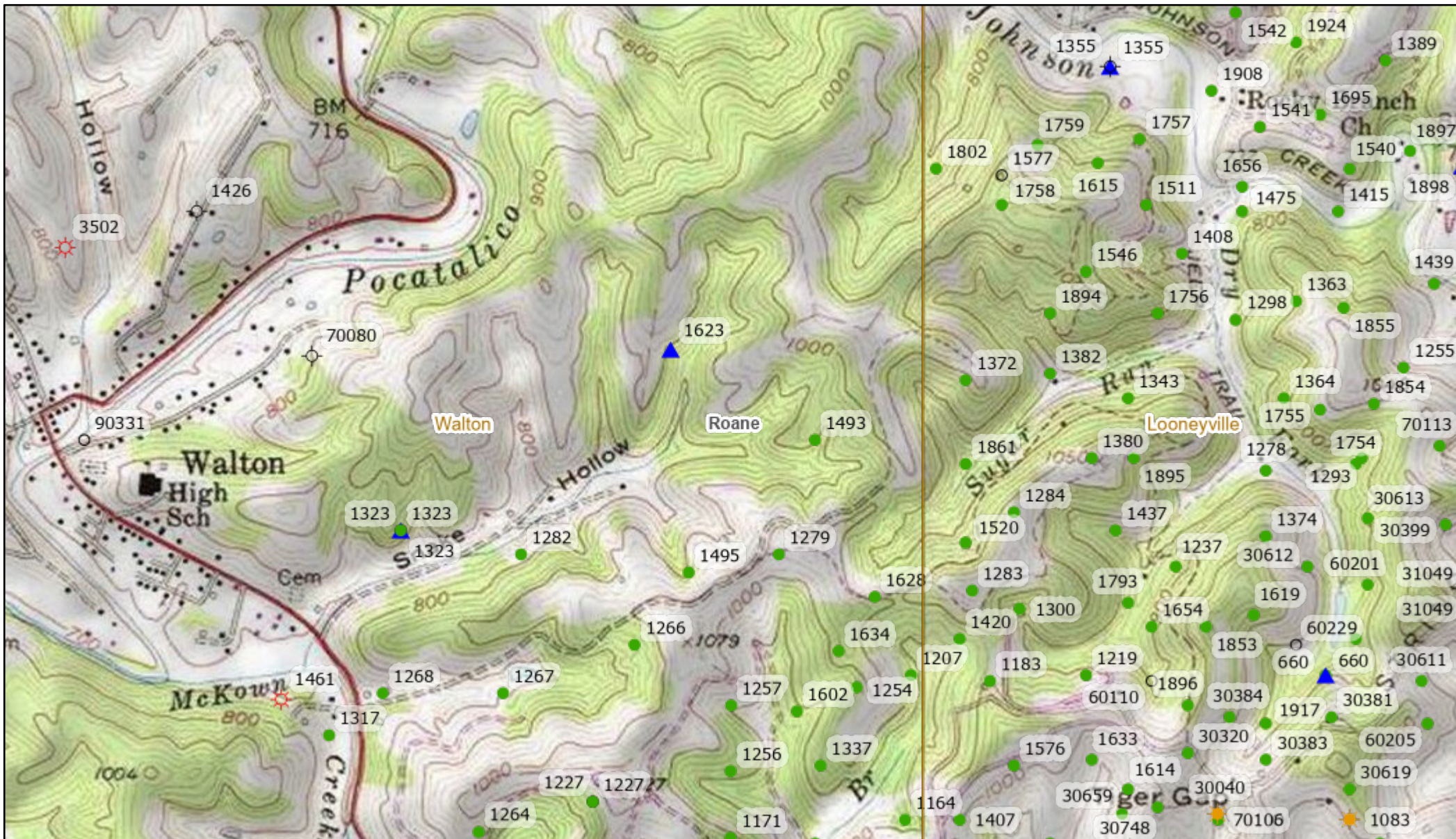
LB.SUMMERS NO.7
 WALTON FIELD
 ROANE CO., WV
 PLUGGING AND ABANDONMENT
 DD OIL COMPANY
 LB SUMMERS #7
 047-087-01625

Received

FEB 12 2016

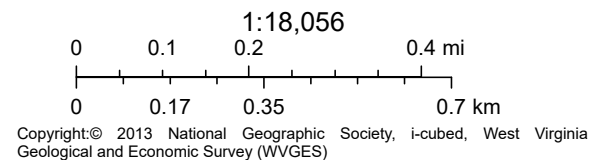
Office of Oil and Gas
 WV Dept. of Environmental Protection

WV Oil & Gas Wells (WVOG)



9/19/2023, 1:51:30 PM

- | | | | |
|---------------------------|-------------------------------------|-------------------------|-----------------------------|
| Labels (7.5' Quadrangles) | □ Counties | ● Oil | ▲ Service |
| 7.5' Quadrangles | County Labels | ★ Combination Oil & Gas | ○ Other (including permits) |
| State Boundary | WV Oil and Gas All Individual Wells | ⊙ Dry | |
| | ★ Gas | | |



12/16/2015

N

2D0871623 Tank Battery

54

53 ft



Tour Guide 1996

Imagery Date: 3/26/2012 17°S 466009.17 m E 4274873.47 m N elev 771 ft eye alt 917 ft

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
PERMIT CERTIFICATION DOCUMENT

West Virginia Department of Environmental Protection
Office of Oil and Gas

Permit ID No.: **2D08701623002**

Permit Name: **David Dale DBA DD Oil Company**

In accordance with Part 2, Reporting and Notification Requirements, I hereby certify that I have read and 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

04/19/2024