

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IX

75 Hawthorne Street
San Francisco, Ca. 94105
Mail Code: W-6-2

SEP 18 1991

Marvin Robinowitz President Grand Resources, Inc. 2250 East 73rd., Suite 400 Tulsa, OK 74136

Dear Mr. Robinowitz:

Enclosed please find copies of the Draft Permit, Fact Sheet, and Public Notice for your wells Navajo #5 and Navajo #5A. The Public Notice will be published in the Farmington Daily Times on September 18, 1991, and the public comment period will be open for 30 days past that date.

All comments must be submitted in writing before October 18, 1991, to:

Mark Ripperda U. S. EPA Region IX (W-6-2) 75 Hawthorne Street San Francisco, CA 94122

If no request for a public hearing or no comments requesting significant changes to the draft permit are received, the draft permit will become effective on October 18, 1991. If either you or members of the public request significant changes to the draft permit, the comments will be addressed and a revised permit may be issued. The permit would then become effective on November 18, 1991.

If you have any questions regarding administrative procedures or the permit issuance process, please call Mark Ripperda at (415) 744-1836.

Sincerely,

Leslie Ann Higgins

Acting Chief

Underground Injection Control Section

enclosures

STATEMENT OF BASIS

CLASS II PERMIT APPLICATION

GRAND RESOURCES, INC.

NAVAJO #5A

Navajo #5A UIC Permit NN291000002 SW SE Sec. 10, T32N, R18W Navajo Lease San Juan County, New Mexico

CONTACTS:

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BACKGROUND INFORMATION

Grand Resources is applying to the EPA for two Class II Underground Injection Control permits. They would like to convert two oil production wells to injection wells for use in an enhanced oil recovery operation. The wells are part of the Mesa Gallup Waterflood Project in San Juan county, New Mexico, and are on the Navajo Indian Reservation.

Grand Resources submitted the permit applications on December 3, 1990. They submitted additional material to complete their application on May 1, 1991, in response to the administrative review.

The EPA has decided to approve these permits, pending public review and comment, and is now issuing proposed permits. The subject for this Statement of Basis is well Navajo #5A and its permit number is NN291000002. The permit will be issued for the remaining operating life of the existing oil recovery operation

in the Mesa Gallup Unit unless the permit is terminated for reasonable cause (40 CFR §144.39, 144.40 and 144.41). However, the permit will be reviewed every 5 years.

The source of the water will be the Entrada formation at a depth of 3200 feet below the surface. The total dissolved solids (tds) content of this water is 28,000 parts per million (ppm).

The water will be injected into the Gallup sandstone formation at a depth of 1037 feet. The Gallup sandstone is an oil-bearing formation and currently produces no free water.

Grand Resources has notified all interested parties within the ½ mile radius area of review. In addition to the local landowners, land-users and operators, they have notified the Navajo Nation, the Bureau of Land Management, the Bureau of Indian Affairs, and the State of New Mexico.

Grand Resources has submitted all the required information and data necessary for an injection permit issuance in accordance with 40 CFR Parts 144, 146, and 147.

This Statement of Basis provides the derivation of the site specific permit conditions and the reasons for them on the basis of the direct implementation regulations promulgated for the Indian Tribal lands on the Navajo Indian Reservation under the UIC program provisions of the Safe Drinking Water Act.

SITE SPECIFIC CONDITIONS

<u>Part II</u> <u>Section A - Well Construction</u>

Casing and Cementing:

No construction changes will be necessary to convert these wells from production to injection. The wellbore schematic diagrams can be seen in Figure 1 of the two permits.

Construction details for well Navajo #5A: The 7" surface casing is set at 109' and is cemented with 50 sacks circulated to the surface. The long string casing is 4½" in diameter and is run from the surface to 1057' and cemented with 100 sacks over the interval 600'-1057'. The 2½" tubing is run from the surface to 950'. The packer is set at 950' and the perforations are between 1037' and 1045' feet below the surface.

Formation Logging and Testing:

The tubing/casing annulus will be tested for mechanical integrity before injection may commence. It will be tested at a minimum of once every five years thereafter. No additional formation logging nor testing is required.

Monitoring Devices:

We are requiring the operator to install one-half inch FIP fittings with cut-off valves on the tubing and the tubing/casing annulus of the well to allow an inspector to take injection pressure measurements.

A flow meter will be installed for measuring flow rates and cumulative volumes. The meter will be certified for at least 95% accuracy throughout the range of injection rates used.

A sampling tap will be installed on the injection pump discharge line for the purpose of periodically obtaining representative samples of the injection fluid.

SECTION B - CORRECTIVE ACTION

The applicant submitted the required one-half mile radius Area of Review (AOR) information with the permit application. There is a total of 31 wells located within the AOR - 21 producers and 10 that have been plugged and abandoned (P&A'd). The complete schematics for all of the wells within the AOR are in the permit application package on file at the EPA office in San Francisco.

No corrective action is required of the permittee because all of the wells within the AOR have been properly constructed or adequately P&A'd. Also, there are no USDW's within the AOR.

SECTION C - WELL OPERATION

Mechanical Integrity:

The construction details and cement records satisfy the requirements of 40 CFR §146.08(ii)(c)(2) for demonstrating the absence of significant fluid movement.

A mechanical integrity test (MIT) of the injection casing, tubing, and packer will be conducted prior to commencement of injection operations in the proposed injection well. This test will involve increasing the pressure in the annulus to 570 psig and holding it for 30 minutes with no more than a 5% drop in pressure.

Demonstrations of mechanical integrity of the injection casing, tubing, and packer will also be conducted within 30 days after any workovers or alterations and prior to recommencing injection.

An MIT pressure test of the annulus will also be conducted at least once every 5 years during the life of the permit.

Injection Interval:

The injection interval will be limited to the Gallup Sandstone formation between the depths of 1037 and 1045 feet below the surface.

The upper confining zones are the Gallup Silt which is between 950 and 1035 feet below the surface and the Mancos Shale which extends from the surface to a depth of 950 feet.

Injection Pressure Limitation:

The maximum allowable injection pressure shall be 570 psig, measured at the surface. This is lower than the 1000 psig requested by the applicant, but it is necessary to stay below the formation fracture pressure.

The formation fracture pressure was calculated assuming a fracture pressure gradient of 1.0 psi/foot, which is a reasonable assumption based on step-rate tests by other operators in the area. The maximum injection pressure was calculated as follows:

 $P_m = P_f - P_h$

 $P_h = 0.433 \cdot SG \cdot d$

 $P_h'' = 0.433 \cdot 1.02 \cdot 1037$

 $P_h'' = 458 \text{ psig}$

 $P_f = FG \cdot d$

 $P_f = 1.0 \cdot 1037$

 $P_{\epsilon} = 1037 \text{ psig}$

 $P_m = 1037 - 458$

 $P_m = 579 \text{ psig}$

Where: $P_m = maximum pressure at the wellhead (psig)$

 P_t = fracture pressure at the top perforation

(psig)

 P_h = hydraulic pressure head (psig)

SG = specific gravity of the injection fluid

(unitless)

d = depth to top perforation (feet)

FG = fracture pressure gradient (psi/foot)

0.433 = fresh water hydraulic pressure gradient

(psi/foot)

This pressure limitation may be increased if the applicant conducts a valid step-rate test showing that the actual fracture pressure is higher.

Injection Volume (Rate) Limitation:

The maximum injection rate shall be 500 barrels per day (bpd), which is the rate requested by the applicant. The

injection is also limited to a rate that will not cause the injection pressure to exceed 900 psig at the wellhead.

Injection Well Monitoring Program

The permittee is required to sample and analyze the water quality of the injected fluids at annual intervals. The water samples shall be analyzed for TDS, major ions, pH, specific conductivity, and specific gravity. Similar analyses shall be conducted whenever the source of the injection fluid changes.

Measurements of the injection pressure, annulus pressure, and injection flow rate must be observed and recorded at least once per month.

SECTION E - PLUGGING AND ABANDONMENT

We have reviewed and approved the P&A plan submitted by the applicant. The P&A plan is incorporated into the permit as Attachment A. The estimated cost of the P&A job is \$5,000.

SECTION F - FINANCIAL RESPONSIBILITY

The permittee has established a Letter of Credit (LOC) and a Standby Trust Agreement at Western National Bank, naming the EPA as beneficiary. The amount of the LOC is \$10,000 and it is a blanket instrument to cover the plugging and abandonment costs of the injection wells located in the Mesa Gallup Waterflood Project. The LOC expires July 30, 1992 and will be automatically renewed by the bank every year.

The permittee also has a Letter of Credit assigned to the Bureau of Indian affairs in the amount of \$15,000. This Letter of Credit covers all oil and gas operations conducted by Grand Resources on the Navajo Reservation in New Mexico.

UNDERGROUND INJECTION CONTROL PROGRAM

DRAFT

PERMIT

Class IIR Water Injection Well
Permit No. NN291000002

Well Name: Navajo #5A
San Juan County, New Mexico
Navajo Nation

Issued to:

Grand Resources, Inc. 2250 E. 73rd Street, Suite 400 Tulsa, OK 74136

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PART I. AUTHORIZATION TO CONSTRUCT AND INJECT

Pursuant to the Underground Injection Control Regulations of the U. S. Environmental Protection Agency codified at Title 40 of the Code of Federal Regulations, Parts 124, 144, 145, 146, 147, and 148,

> Grand Resources, Inc. 2250 E. 73rd Street, Suite 400 Tulsa, OK 74136

is hereby authorized to convert an existing oil production well, commonly known as the Navajo #5A well, into service as a Class IIR injection well. The well is located in Section 25, T32N, R18W in San Juan County, New Mexico.

Injection shall be for the purpose of a waterflood project in the Mesa Gallup oilfield in accordance with conditions set forth herein.

All conditions set forth herein refer to Title 40 Parts 124, 144, 146, 147, and 148 of the Code of Federal Regulations and are regulations that are in effect on the date that this permit becomes effective.

This permit consists of a total of twenty-four (24) pages and includes all items listed in the Table of Contents. Further, it is based upon representations made by the permittee and on other information contained in the administrative record. It is the responsibility of the permittee to read and understand all provisions of this permit.

This permit and the authorization to inject are issued for a period of ten years unless terminated under the conditions set forth in Part III, Section B of this permit. The permit will expire upon delegation of primary enforcement responsibility for the UIC Class II Program to an appropriate agency of the Navajo Nation, unless the Navajo Nation agency has the appropriate authority and chooses to adopt and enforce this permit as a State permit.

Issue	d this		day of			
This	permit	shall	become effe	ctive _	· ·	4001
			i	ORAF	T 1, 1	SEP 16 1991
			Harr Wate	y Serayo r Manage	darian, ement D	Director ivision *

* NOTE: The person holding this title is referred to as the "Director" throughout this permit.

PART II. SPECIFIC PERMIT CONDITIONS

A. WELL CONSTRUCTION

1. Casing and Cementing. The construction details submitted with the permit application are incorporated into this permit as Figure 1 and shall be binding on the permittee. The well has been cased and cemented to prevent the movement of fluids behind the casing. The casing and cement used in the construction of the well have been designed for the life expectancy of the well, and shall be maintained throughout the operating life of the well.

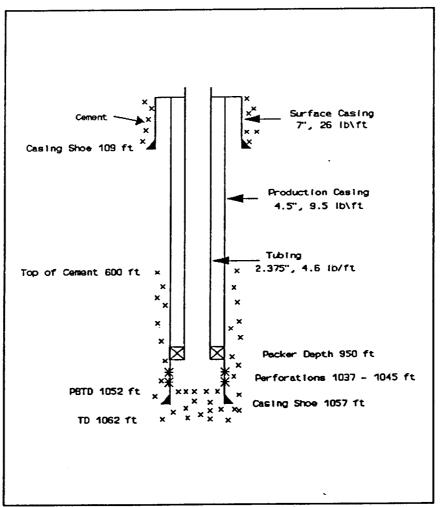


Figure 1 Construction schematic for the well Navajo #5A. All depths are in feet below the surface.

- 2. <u>Formation Logging and Testing</u>. Prior to beginning injection under the authority of this permit, the permittee shall obtain the existing injection formation (aquifer) pressure by an appropriate pressure test method.
- 3. <u>Monitoring Devices</u>. The operator shall install and maintain in good operating condition:
 - (a) A tap on the discharge line between the injection pump and the wellhead for the purpose of obtaining representative samples of the injection fluids;
 - (b) Two one-half (1/2) inch FIP fittings, isolated by plug or globe valves, and positioned to provide for either (1), the permanent attachment of one-half (1/2) inch MIP gauges, or (2), the attachments for equivalent "quick- disconnect" gauges at the wellhead on the injection tubing and on the tubing/casing annulus. The gauges used shall be of a design to provide (1), a full pressure range of 100 percent greater than the anticipated operating pressure, and (2), a certified deviation accuracy of five (5) percent or less;
 - (c) A flow meter with measured cumulative volumes that are certified for a deviation accuracy of five (5) percent or less throughout the range of injection rates allowed by the permit.
- 4. Proposed Changes and Workovers. The permittee shall give advance notice to the Director, as soon as possible, of any planned physical alterations or additions to the permitted injection well. Any changes in the well construction will require prior approval of the EPA and a permit modification under the requirements of 40 CFR §144.39. In addition, the permittee shall provide all records of well workovers, logging, or other subsequent test data, including required mechanical integrity testing, to EPA within sixty (60) days of completion of the activity. Appendix B contains samples of the appropriate reporting forms. Demonstration of mechanical integrity shall be performed within thirty (30) days of completion of workovers or alterations and prior to resuming injection activities in accordance with Part II, Section C.1.(a) of this permit.

B. CORRECTIVE ACTION

No corrective action will be required on the injection well Navajo #5A. The well is properly constructed with the appropriate tubing, casing, packer and cement configurations. No corrective action will be required on the wells within the AOR. All wells within the AOR are properly constructed or plugged and abandoned according to the provisions of 40 CFR §144.55 and 40 CFR §146.07. Furthermore, no USDW exists within the AOR.

C. WELL OPERATION

- 1. Mechanical Integrity.
 - (a) <u>Method for Demonstrating Mechanical Integrity</u>.
 - (i) All injection wells must have and maintain mechanical integrity consistent with 40 CFR §146.8. The permittee must show that there are no significant leaks in the casing, tubing and packer and that there is no significant fluid movement through vertical channels adjacent to the injection wellbore.
 - (ii) The permittee will demonstrate that no significant leaks exist by means of a shut-in annulus pressure test. The annulus must hold a pressure of 570 psig for a period of 30 minutes with no more than a 5 percent decrease in pressure.
 - (iii) The permittee has fulfilled the requirements listed in 40 CFR §146.8 for demonstrating the absence of fluid movement into a USDW through vertical channels adjacent to the injection wellbore. The permittee has submitted proof of an adequate cementing record.
 - (b) <u>Prohibition Without Demonstration</u>. Injection into this well may begin after the effective date of this permit only if:
 - (i) The well has passed a mechanical integrity test in accordance with Part II Section C.1.(a) of this permit and
 - (ii) The permittee has received written notice from the Director that the MIT demonstration is satisfactory.

The permittee shall notify the Director of intent to demonstrate mechanical integrity at least 30 days prior to the test.

(c) Subsequent Mechanical Integrity Demonstrations

- (i) A demonstration of mechanical integrity in accordance with Part II Section C.1.(a) shall be made on a periodic time interval not exceeding 5 years. Mechanical integrity shall also be demonstrated any time that a workover is conducted, the construction of the well is modified or when a loss of mechanical integrity becomes evident during operation.
- (ii) It shall be the permittee's responsibility to arrange and conduct the mechanical integrity demonstrations. The permittee shall notify the Director of intent to demonstrate mechanical integrity at least thirty (30) days prior to each such demonstration. Results of the test shall be submitted to the Director as soon as possible but no later than sixty (60) days after the demonstration.
- (iii) In addition to any demonstration made under paragraph (i) above, the Director may require a demonstration of mechanical integrity at any time during the permitted life of the well.
- (d) Loss of Mechanical Integrity. If (1), the well fails to demonstrate mechanical integrity during a test, or (2), a loss of mechanical integrity becomes evident during operation, or (3), a significant change in the annulus or injection pressure occurs during normal operating conditions, the permittee shall notify the Director in accordance with Part III, Section E.10 of this permit. Furthermore, injection activities shall be terminated immediately and operation shall not be resumed until the permittee has taken necessary actions to restore integrity to the well and EPA gives approval to recommence injection.
- 2. <u>Injection Intervals</u>. Injection shall be permitted for the Gallup formation in the subsurface interval of 1037 to 1045 feet KB depth. Injection perforations may be added or squeezed off only within this interval. Alteration of the injection perforations and other rework operations must be properly reported (EPA Form 7520-12) and the well must demonstrate mechanical integrity before injection is resumed.

3. <u>Injection Pressure Limitation</u>.

- (a) The injection pressure shall not exceed 570 psig measured at the wellhead.
- (b) The injection pressure limitation in paragraph (a) may be increased by the Director if the fracture pressure of the injection formation will not be exceeded. This demonstration shall be made by performing a valid steprate injection test in the respective proposed injection zone(s). The Director will determine any allowable increase based upon the step-rate test results and other parameters reflecting actual injection operations.
- (c) Any approval granted by the Director for the increased pressure limitations as stated in paragraph (b) shall be made part of this permit by minor modification without further opportunity for public comment.

4. <u>Injection Volume (Rate) Limitation</u>.

- (a) The maximum injection rate shall be limited to 500 bpd.
- (b) The permittee may request an increase in the maximum rate allowed in paragraph (a). Any such request shall be made in writing to the Director.
- (c) Should any increase in rate be requested, the permittee shall demonstrate to the satisfaction of the Director that the increase in volume will not cause migration of formation or injected fluids into any USDW, nor cause any injected fluids to move beyond the Area of Review boundary.

5. Injection Fluid Limitation.

- (a) The permittee shall not inject any hazardous wastes as defined by 40 CFR §261 at any time during the operation of the facility.
- (b) The well shall be used only for the injection of water from the Entrada formation or produced oilfield brines for the purpose of secondary oil recovery. The TDS of the injected fluid shall not exceed 40,000 ppm.
- (c) Fluids to be injected other than those described in paragraph (b) above shall be limited to occasional minor amounts of well treatment fluids such as dilute acids and corrosion inhibiting fluids. Injection of any fluids other than those described in paragraph (b) above shall be reported to the Director within 30 days.

- D. MONITORING, RECORDKEEPING, AND REPORTING OF RESULTS
- 1. <u>Injection Well Monitoring Program.</u> Samples and measurements shall be representative of the monitored activity. The permittee shall utilize the applicable analytical methods described in Table I of 40 CFR §136.3, or in Appendix III of 40 CFR §261, or, in certain circumstances, other methods that have been approved by the EPA Administrator. Monitoring shall consist of:
 - (a) Analysis of the injection fluids. The analysis shall be performed:
 - (i) annually for Total Dissolved Solids, major ions, pH
 - (ii) whenever there is a change in the source of injection fluids
 - (b) Monthly recordings of injection pressure, annulus pressure, flow rate, and cumulative volume.
- 2. <u>Monitoring Information</u>. Records of any monitoring activity required under this permit shall include:
 - (a) the date, exact place, and the time of sampling or field measurements;
 - (b) the name of the individual(s) who performed the sampling or measurements;
 - (c) the exact sampling method(s) used to take samples;
 - (d) the date(s) laboratory analyses were performed;
 - (e) the name of the individual(s) who performed the analyses;
 - (f) the types of analyses; and
 - (g) the results of such analyses.
- 3. Recordkeeping.
 - (a) The permittee shall retain records concerning:
 - the nature and composition of all injected fluids until three (3) years after the plugging and abandonment has been carried out in accordance with the Plugging and Abandonment Plan shown in Appendix A;

- (ii) all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit for a period of at least five (5) years from the date of the sample, measurement or report throughout the operating life of the well.
- (b) The permittee shall continue to retain such records after the retention period specified in paragraphs (a)(i) and (a)(ii) unless it delivers the records to the Director or obtains written approval from the Director to discard the records.
- (c) The permittee shall maintain copies (or originals) of all pertinent monthly observation records (Part II, Section D.1 of this permit) available for inspection at the lease facility.
- Reporting of Results. The permittee shall submit an Annual Report to the Director summarizing the results of the monitoring required by Part II, Sections D.1-2. of this permit. Copies of all monthly records on flow rates, volumes, pressures, and injected fluid, and any major changes in the characteristics or sources of injected fluid shall be included in the Annual Report. The first Annual Report shall cover the period from the effective date of the permit through December 31. Subsequently, the Annual Report shall cover the period of January 1 through December 31, and shall be submitted by January 31 of the following year. Appendix B contains Form 7520-11, which may be copied and used to submit the annual summary of monitoring.

E. PLUGGING AND ABANDONMENT

- 1. Notice of Plugging and Abandonment. The permittee shall notify the Director forty-five (45) days before further conversion, workover, or abandonment of the well. The Director may require that the plugging and abandonment be witnessed by an EPA representative.
- 2. Plugging and Abandonment Plan. The permittee shall plug and abandon the well as provided in the Plugging and Abandonment Plan in Appendix A. The EPA reserves the right to change the manner in which the well will be plugged if the well is modified during its permitted life or if the well is not made consistent with EPA requirements for construction and mechanical integrity. The Director may ask the permittee to estimate and to update the estimated plugging cost periodically. Such estimates shall be based upon costs which a third party would incur to plug the well according

to the plan.

- 3. <u>Cessation of Injection Activities</u>. After a cessation of operations of two (2) years, the permittee shall plug and abandon the well in accordance with the Plugging & Abandonment Plan, unless the permittee:
 - (a) has provided notice to the Director;
 - (b) has demonstrated that the well will be used in the future; and
 - (c) has described actions or procedures, satisfactory to the Director, that will be taken to ensure that the well will not endanger underground sources of drinking water during the period of temporary abandonment.
- 4. Plugging and Abandonment Report. Within sixty (60) days after plugging the well, the permittee shall submit a report on Form 7520-13 to the Director. The report shall be certified as accurate by the person who performed the plugging operation and the report shall consist of either: (1) a statement that the well was plugged in accordance with the plan, or (2) where actual plugging differed from the plan, a statement specifying the different procedures followed.

F. FINANCIAL RESPONSIBILITY

- 1. <u>Demonstration of Financial Responsibility</u>. The permittee is required to maintain financial responsibility and resources to close, plug, and abandon the injection well as provided in the plugging and abandonment plan.
 - (a) The subject well is currently covered through July 30, 1992, by a Letter of Credit issued by Western National Bank. The Letter of Credit reference number is 810800 and the Beneficiary is the United States Environmental Protection Agency. The Letter of Credit is automatically renewed by the Bank every year for a period of one year. A Standby Trust Agreement has also been opened at Western National Bank to receive the funds in the case of default.
 - (b) The permittee must provide proof to the EPA of the Letter of Credit renewal every year by June 15.
- 2. <u>Insolvency of Financial Institution</u>. The permittee must submit an instrument of financial responsibility acceptable to the Director within sixty (60) days after either of the following events occur:

- (a) the institution issuing the bond or financial instrument files for bankruptcy; or
- (b) the authority of the trustee institution to act as trustee or the authority of the institution issuing the financial instrument is suspended or revoked.

PART III. GENERAL PERMIT CONDITIONS

A. EFFECT OF PERMIT

The permittee is allowed to engage in underground injection in accordance with the conditions of this permit. mittee, as authorized by this permit, shall not construct, operate, maintain, convert, plug, abandon, or conduct any other injection activity in a manner that allows the movement of fluid containing any contaminant into underground sources of drinking water, if the presence of that contaminant may cause a violation of any primary drinking water regulation under 40 CFR §142 or otherwise adversely affect the health of persons. Any underground injection activity not authorized in this permit or otherwise authorized by permit or rule is prohibited. Issuance of this permit does not convey property rights of any sort or any exclusive privilege; nor does it authorize any injury to persons or property, any invasion of other private rights, or any infringement of State or local law or regulations. Compliance with the terms of this permit does not constitute a defense to any enforcement action brought under the provisions of Section 1431 of the Safe Drinking Water Act (SDWA) or any other law governing protection of public health or the environment for any imminent and substantial endangerment to human health or the environment, nor does it serve as a shield to the permittee's independent obligation to comply with all UIC regulations.

B. PERMIT ACTIONS

1. Modification, Reissuance, or Termination. The Director may, for cause or upon request from the permittee, modify, revoke and reissue, or terminate this permit in accordance with 40 CFR Sections 124.5, 144.12, 144.39, and 144.40. The permit is also subject to minor modifications for cause as specified in 40 CFR §144.41. The filing of a request for a permit modification, revocation and reissuance, or termination or the notification of planned changes or anticipated noncompliance on the part of the permittee does not stay the applicability or enforceability of any permit condition.

2. Transfers. This permit may only be transferred after notice is provided to the Director and the permittee complies with the requirements of 40 CFR §144.38. The Director 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.

C. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the remainder of this permit shall not be affected.

D. CONFIDENTIALITY

In accordance with 40 CFR Part 2 and 40 CFR §144.5, any information submitted to EPA pursuant to this permit may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, EPA may make the information available to the public without further notice. If a claim is asserted, the validity of the claim will be assessed in accordance with the procedures in 40 CFR Part 2 (Public Information). Claims of confidentiality for the following information will be denied:

- The name and address of the permittee,
- Information which deals with the existence, absence, or level of contaminants in drinking water.

E. GENERAL DUTIES AND REQUIREMENTS

- 1. Duty to Comply. The permittee shall comply with all conditions of this permit, except to the extent and for the duration such noncompliance is authorized by an emergency permit. Any permit noncompliance constitutes a violation of the SDWA and is grounds for enforcement action, permit termination, revocation and reissuance, or modification. Such noncompliance may also be grounds for enforcement action under the Resource Conservation and Recovery Act (RCRA).
- 2. <u>Penalties for Violations of Permit Conditions</u>. Any person who violates a permit requirement is subject to civil

penalties, fines, and other enforcement action under the SDWA and may be subject to such actions pursuant to RCRA. Any person who willfully violates permit conditions may be subject to criminal prosecution.

- 3. Need 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. <u>Duty to Mitigate</u>. The permittee shall take all reasonable steps to minimize or correct any adverse impact on 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 and systems of treatment and control 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, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this permit.
- 6. <u>Duty to Provide Information</u>. The permittee shall furnish the Director, within a time specified, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.
- 7. <u>Inspection and Entry</u>. The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
 - (a) enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records are 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 or as otherwise authorized by the SDWA any substances or parameters at any location.
- 8. Records of the Permit Application. The permittee shall maintain records of all data required to complete the permit application and any supplemental information submitted for a period of five (5) years from the effective date of this permit. This period may be extended by request of the Director at any time.
- 9. <u>Signatory Requirements</u>. All reports or other information requested by the Director shall be signed and certified by a responsible corporate officer or duly authorized representative according to 40 CFR §144.32.
- 10. Reporting of Noncompliance.
 - (a) Anticipated Noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
 - (b) <u>Compliance Schedules</u>. 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.
 - (c) Twenty-four Hour Reporting.
 - (i) The permittee shall report to the Director any noncompliance which may endanger health or the environment. Information shall be provided within twenty-four (24) hours from the time the permittee becomes aware of the circumstances by telephoning the EPA project officer. The following information shall be included in the verbal report:
 - (A) Any monitoring or other information which indicates that any contaminant may cause endangerment to an underground source of drinking water.
 - (B) Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

- (ii) A 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, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- (d) Other Noncompliance. The permittee shall report all other instances of noncompliance not otherwise reported at the time monitoring reports are submitted. The reports shall contain the information listed in Part II, Section D.1 of this permit.
- (e) Other Information. Where the permittee becomes aware that it failed to submit all relevant facts in the permit application, or submitted incorrect information in a permit application or in any report to the Director, the permittee shall submit such facts or information within two (2) weeks of the time such information becomes known.

APPENDIX A - (Plugging and Abandonment Plan)

1. Plugging & Abandonment Plan

CERTIFICATION

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

NAME AND OFFICIAL TO SE	T		
NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	`.)	DATE SIGNED
Jana M. Ray - Operations Manager	ana	+ aux	05/01/91

APPENDIX B - (Reporting Forms and Instructions)

1. EPA Form 7520 -7: APPLICATION TO TRANSFER PERMIT

2. EPA Form 7520-10: WELL COMPLETION REPORT

3. EPA Form 7520-11: ANNUAL WELL MONITORING REPORT

4. EPA Form 7520-12: WELL REWORK RECORD

5. EPA Form 7520-13: PLUGGING RECORD

Page 20 of 25 UIC Permit NN291000002

	FORM APPROVAL. ONB No. 2040-0042. EXPLIES 9: UNITED STATES ENVIRONMENTAL PROTECTION NCY WASHINGTON, DC 20460
SEPA	APPLICATION TO TRANSFER PERMIT
ME AND ADDRESS OF EXISTING PERMITTEE	NAME AND ADDRESS OF SURFACE OWNER
LOCATE WELL AND OUTLINE UNIT ON SECTION PLAT — 640 ACRES	STATE COUNTY PERMIT NUMBER
	SURFACE LOCATION DESCRIPTION
<u> </u>	N OF N SECTION TOWNSHIP RANGE
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT
	Surface
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	and ft. from (E/W) Line of quarter section
	WELL ACTIVITY WELL STATUS TYPE OF PERMIT
	☐ Class I ☐ Operating ☐ Individual ☐ Modification/Conversion ☐ Area
	☐ Class II ☐ Modification/Conversion ☐ Area ☐ Brine Disposal ☐ Proposed Number of Wells
	☐ Enhanced Recovery ☐ Hydrocarbon Storage
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The new permittee must show evidence of financial responsibility by the submission of surety bond, or other adequate assurance, such as financial statements or other materials acceptable to the director.

CERTIFICATION

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

SIGNATURE	DATE SIGNED
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SEPA

EPA Form 7520-10 (2-84)

WHITED STATES ENVIRONMENTAL PROTECTION AGENCY VASHINGTON, DC 20460

Form Approved
OMB No. 2040-0042
Approval expires 9-30-91

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