

RF

PERMIT TO CONSTRUCT

PERMIT NO. 88-502  
EPA C560246-94  
SEE SPECIAL CONDITIONS

New  
 Renewal  
 Modified

ASPENS I AND ASPENS II Wastewater Treatment Plant

This permit hereby authorizes the applicant:

Aspens I and Aspens II  
Water and Sewer Districts  
P O Box 25003  
Jackson, WY 83001

to construct, install or modify a wastewater treatment plant according to the procedures and conditions of the application number 88-502. The facility is located in Section 14, T41N, R117W in the county of Teton, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

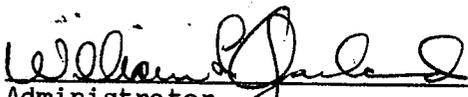
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

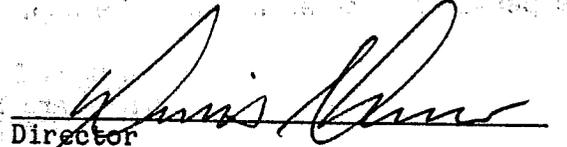
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
Administrator  
Water Quality Division

  
Director  
Department of Environmental Quality

July 25, 1989  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

**SPECIAL CONDITIONS FOR PERMIT TO CONSTRUCT 88-504**

1. The effluent from the wastewater treatment plant shall meet all the requirements of the Department of Environmental Quality, State of Wyoming, Groundwater Pollution Control Permit Number UIC 89-014.
2. All pumps within the influent wetwell shall be provided with an isolation valve.
3. A variance is granted for the chlorination equipment to allow the chlorinator feeders to have an adjustment range of 20:1.

WK/jn

cc: Harry LaBonde, ARIX

RCS-3895.6 Box 3  
88-503



THE STATE OF WYOMING

MIKE SULLIVAN  
GOVERNOR



# Department of Environmental Quality

210 Lincoln Street • Lander, Wyoming 82520

Air Quality Division  
(307) 332-3144

Land Quality Division  
(307) 332-3047

Solid Waste Management Program  
(307) 332-3144

Water Quality Division  
(307) 332-3144

January 23, 1991

Meadow Park Homeowners Association  
c/o Bill Brobeck  
100 Pleasant View  
Evanston, WY 82930

**ARCHIVES**

RE: As-Built Approval  
WQD-Ref. Numbers: 82-404RRRRRR,  
85-574RRR, &  
88-503

Dear Mr. Brobeck:

The plans and on-site inspection information for the above referenced project have been reviewed and appear to comply with the minimum design standards, as defined by the State of Wyoming, with the following exceptions:

- 1) The slopes of the sewer lines are less than those listed in Chapter XI, Part B, Section 9 of DEQ Water Quality Rules and Regulations. Due to the flat slopes and minimum flows inherent to this system, the DEQ strongly recommends that maintenance include sewer line flushing on about a 6 month frequency.
- 2) The valve boxes over the blow off valves will require lids.

A "Permit to Construct" cannot be issued owing to the fact that the system has already been constructed. However, please retain this letter as verification that the system has been accepted, with the listed deficiencies, by the DEQ Water Quality Division.

If you have any questions or comments feel free to contact me.

Sincerely,

Sterling Roberts, P.E.  
Water Quality Engineer

SR/anc

cc: Plans (3)  
File (2)



THE STATE OF WYOMING

MIKE SULLIVAN  
GOVERNOR



## Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration  
(307) 777-7937

Air Quality Division  
(307) 777-7391

Land Quality Division  
(307) 777-7756

Solid Waste Management Program  
(307) 777-7752

Water Quality Division  
(307) 777-7781

December 12, 1988

Kenneth L. Wilbert, P.E.  
Johnson-Fermelia Company, Inc.  
1515 Ninth Street  
Rock Springs, Wyoming 82901

RE: Rock Springs Grouting Project 6A-Phase III  
Permits UIC 88-504  
Sweetwater County, Wyoming

Dear Mr. Wilbert:

Enclosed find the approved permit for the above referenced project. You will note that I have not required any final report on this project from you. We will get one copy of the final report from the Land Quality Division directly.

Sincerely,

Robert Licht, P.E.  
UIC Program Supervisor  
Water Quality Division

RL/nc

xc: Stan Bernard, LQD  
Jake Strohmman, WQD

MEMORANDUM

MEMO: Stan Barnard, LQD  
FROM: Robert Lucht, WQD   
SUBJECT: Rock Springs Grouting Project 6A-Phase III  
Permit UIC 88-504  
Sweetwater County, Wyoming

Enclosed find the approved permit for the above referenced project. You will note that I have not required any final report on this project from the permittee. Would you please forward one copy of your final project report when this project is completed?

/nc

DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE OF WYOMING  
GROUNDWATER POLLUTION CONTROL PERMIT  
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS  
(Permit to Inject)

(X) New

Permit Number:

( ) Modified

UIC 88-504

UIC CLASS 5x13

In compliance with the Wyoming Environmental Quality Act. (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations Chapter IX (September 4, 1980),

Johnson-Fermelia Co. Inc.  
1515 9th St.  
Rock Springs, WY 82901

is authorized to operate

a mine void grouting project

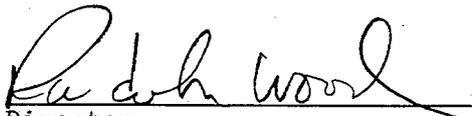
according to procedures and conditions of the application 88-504 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.



Administrator  
Water Quality Division  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002  
Phone: (307) 777-7781

Dec 13, 1988  
Date



Director  
Department of Environmental Quality  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002

Dec 15, 1988  
Date

A. Discharge (Injection) Zone and Area of Review

The Area of Operations for this permit consists of portions of downtown Rock Springs, Wyoming located in the following legal description:

Township 19 North, Range 105 West, Sixth P.M.

Section 36: SW1/4

Township 18 North, Range 105 West, Sixth P.M.

Section 1: NW1/4

The Area of Review has been established to be equal to the above description.

Injection into mine voids in coal seam Number 7 is authorized anywhere within the above Area of Review. Injection into any other void space that may be detected above this seam, whether that void is caused by subsidence or not, is authorized. Injection into any void space less than 30 feet deep from the surface is not authorized.

B. Groundwater Classification

Information supplied in the application indicates that the water quality in the affected aquifer may be class III or class IV depending on the location where a sample is taken. TDS ranges from 1500 mg/l to 9600 mg/l in the Rock Springs aquifer.

C. Authorized Operations

The permittee is authorized to inject a mixture of portland cement, sand, gravel, fly ash, sodium silicate, calcium chloride, plasticizers and water in any proportion required into mine voids in the Number 7 coal seam of the Rock Springs Aquifer. Grout may also be injected into any void located above the deepest of these seams provided that the void is not specifically constructed for a purpose and being used for that purpose. (This permit does not authorize the filling of sewer lines, basements, storm sewers, or manholes, etc.) It is not necessary to determine if a void is caused by subsidence, natural conditions or manmade activity before grouting, as long as the void is more than 30 feet from the surface.

Food grade propylene glycol may be added to the grout if necessary. Rhodamine dye may be injected along with the grout or separately as required to determine migration pathways between water withdrawal wells and injection wells.

As many as 100 wells may be constructed under this permit, but this permit shall be limited to the single contract between LQD and Johnson-Fermelia Company, Inc. and any extensions to that contract.

Pressures at the injection wells shall be controlled so that damage is not caused to existing structures in Rock Springs. Bottom hole pressures shall not exceed 35 psi or .50 psi per foot of depth. If pressures in excess of this are required, the permittee shall calculate the bottom hole pressures and submit the results to Water Quality Division prior to using these pressures. In no case shall the parting pressure of the coal seam be exceeded at any time during the grouting operation. During certain phases of the operation, wellhead pressures as high as 100 psi may be required to overcome the flow resistance of the grout. The permittee shall be solely responsible for the maintenance of all surface lines and injection tubing that operate at these pressures.

No other use of these injection wells is authorized. Specifically, no waste of any description whatsoever, whether or not it is listed hazardous waste, may be injected into any of these wells. The only substance which may be injected is grout that has been specifically formulated to fill the mine voids.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. The permit indicates only that the standards and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities under this permit.

D. Proper Operation and Maintenance

The permittee is required to conduct the operation in accordance with statements, representations and procedures presented in the complete permit application and supporting documents, as accepted and approved by the administrator.

The permittee is required at all times to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve permit compliance. 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.

The subsurface discharge (injection) authorized by permit shall be consistent with the conditions and content of the permit; any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued.

E. Entry and Inspection

The permittee shall allow the administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

1. 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;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.
3. Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurements;
  - b. The name(s) of individual(s) who performed the sampling or measurements;
  - c. The date(s) analyses were performed;
  - d. Names of individuals who performed the analyses;
  - e. The analytical techniques or methods used; and
  - f. The results of such analyses.
4. The prescribed program for this permitted activity is as follows:

The grout pump system will be monitored through use of pressure gauges and flow meters. Monitoring boreholes may be used to estimate subsurface grout movement. The bottom hole pressure for each hole shall be calculated prior to placing grout. The bottom hole pressure shall be controlled so that it does not exceed .50 psi per foot of depth in excess of normal hydrostatic pressure at that depth.

G. Requirements for Monitoring the Discharge

Discharge (injection) volume and/or pressure shall be controlled and monitored to prevent fracturing of confining strata.

Injection pressure shall be monitored continuously to prevent fracturing of the confining strata. Injection volume shall be monitored and recorded for each injection well.

H. Test Procedures

Test procedures for the determination of water quality parameters and constituents shall be in accord with provisions of Water Quality Rules and Regulations Chapter VIII, Section 7.

I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified in Section C and/or Section G of this permit.
5. 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 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
  - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.
  - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable groundwaters of the state.

A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. This 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 reoccurrence of the noncompliance.

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.
8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the administrator, it shall promptly submit such facts or information.
9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:
  - a. Well construction is complete and the permittee has submitted notice of completion of construction to the administrator, and
  - b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
  - c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the administrator.
11. Annual reports shall be submitted to the administrator within 30 days following the anniversary date of the permit.
12. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

J. Permit Actions

After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to, any of the following:

1. Violation of the permit;

2. Obtaining a permit by misrepresentation or failure of the discharge well or system.

Each permit is reviewed at least once every 5 years, and may be reviewed more frequently.

A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit is issued.

A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in the permittee's discharge, as may be ordered by the council.

This operation (permit) can be terminated by authority of the administrator for one or more permit violations.

Public notice of the permit review and request for public comment will be made every 10 years by the administrator.

Public notice is not required prior to issuance of this permit.

Existing regulations do not require public notice of the permit review or request for public comment every 10 years for this discharge.

#### K. Mechanical Integrity

Each discharge well and associated discharge facilities is required to have mechanical integrity which demonstrates the unimpaired condition of the well and facilities. The approved procedures for demonstrating the mechanical integrity for the well and facilities handling the discharge authorized by this permit consist of:

Injection tubing shall have a working strength by specification (or by test if it is used tubing) of at least 500 psi before it is used in any pressure application. Tubings not meeting this requirement shall be limited to 50 psi in any application.

The operation (discharge) of any well or system will terminate immediately if mechanical integrity of the well or system fails and/or a leak or unauthorized fluid movement occurs. The discharge shall be discontinued until mechanical integrity has been restored and permission to continue the discharge has been obtained from the administrator.

#### L. Abandonment

The permittee shall notify the administrator at least 180 days before well abandonment. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the director and follow the procedures prescribed by the director for plugging and abandonment or the discontinuance of related activities:

All wells shall be abandoned by filling the hole with cuttings to a depth of no more than 15 feet. Above this, a 10 foot plug of concrete shall be emplaced as shown on the application documents. The top of the hole shall be plugged to match the surroundings.

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- 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 permit conditions;
3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;
4. Furnish to the administrator within a reasonable time, any information which the administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the administrator, upon request, copies of records required to be kept by this permit.

N. Financial Responsibility

The permittee is required to maintain financial responsibility and resources in form approved by the director, to close, plug and abandon the discharge operation in a manner prescribed by the director.

The permittee has assured sufficient financial strength to insure that all holes drilled under this permit will be properly plugged.

O. Special Measures the Director Finds Necessary:

The operations authorized under this permit shall commence within one year of the issue date of the permit, or the permit will be invalid.

P. Special Permit Conditions:

Pollution or waste which migrates into an aquifer containing a usable groundwater of the state is a violation of the permit.

Mechanical integrity -- operations terminate immediately if mechanical integrity of well or system fails and/or a leak or unauthorized fluid movement occurs.

Q. Signatories Requirement

All reports required by this permit and other requested information shall be signed as follows:

For a corporation -- by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship -- by a general partner or the proprietor, respectively;

For a municipality, state, federal or other public agency -- by either a principal executive officer or ranking elected official; or

By a duly authorized representative for any of the above. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the described principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
3. The written authorization is submitted to the administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the administrator prior to or together with any reports or information, to be signed by an authorized representative.

Any person signing a report or other requested information shall make the following certification:

"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."

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification or planned changes or anticipated noncompliance, does not stay any permit condition.

S. Permit Transfer

The owner/operator of record (permittee) is always responsible for permit compliance. A permit holder cannot transfer his permit without approval of the department director.

T. Responsibilities

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

U. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

V. Severability

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

xc: Stan Bernard, LQD

THE STATE



OF WYOMING



**JIM GERINGER**  
GOVERNOR

## Department of Environmental Quality

Herschler Building ● 122 West 25th Street ● Cheyenne, Wyoming 82002

ADMINISTRATION (307) 777-7758 FAX 777-7682	ABANDONED MINES (307) 777-6145 FAX 634-0799	AIR QUALITY (307) 777-7391 FAX 777-7682	INDUSTRIAL SITING (307) 777-7368 FAX 777-6937	LAND QUALITY (307) 777-7756 FAX 634-0799	SOLID & HAZARDOUS WASTE (307) 777-7752 FAX 777-5973	WATER QUALITY (307) 777-7781 FAX 777-5973
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March 8, 1995

Ed and Hazel Ballard  
P.O. Box 458  
Encampment, WY 82325

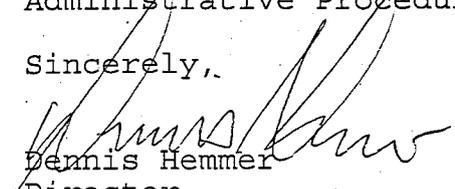
RE: As-Built Permit to Construct, WQD Reference Number 88-505R

Dear Ed and Hazel Ballard:

The Department of Environmental Quality/Water Quality Division (DEQ/WQD) has reviewed the referenced As-Built Application submitted by you in the Lander office on 07 March 1995. Our review indicates that the application appears to meet DEQ/WQD regulations and the enclosed As-Built Permit To Construct is hereby issued. The enclosed permit covers the leachfield and septic tank which have already been constructed.

Please be advised that the system must have been constructed, installed and be operated in accordance with the statements, representations and procedures presented in the application and all supporting documentation as well as the terms and conditions of the permit. You are urged to be familiar with all aspects of the permit application, permit and permit conditions. Any person objecting to a permit issued by the DEQ and desiring affirmative relief may request a hearing before the Environmental Quality Council in accordance with the Rules of Practice and Procedure for the Department of Environmental Quality and the Wyoming Administrative Procedures Act.

Sincerely,

  
Dennis Hemmer  
Director  
Department of Environmental Quality

DH/rt/mad 51081.LTR  
Enclosure  
xc: Plans (2)

Revised August 9, 1993

AS-BUILT  
PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 88-505R  
\* **CONDITIONED** \*

Ballard Septic Tank and Leachfield  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Ed and Hazel Ballard

P.O. Box 458

Encampment, WY 82325

to have constructed a septic tank and leachfield according to the procedures and conditions of the application No. 88-505R. The facility is located in SW¼ S5 T14N R83W in the County of Carbon, in the State of Wyoming.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

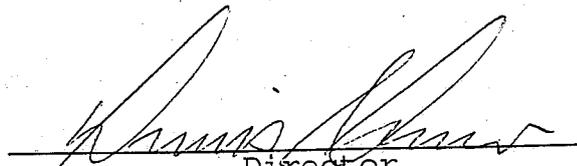
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

3-13-95  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

STANDARD CONDITION

1. of 1 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

STATEMENT OF BASIS

I. General information.

A. Permit Number: 88-505R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit.

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

Yes

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

No

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations.

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

NA

B. Briefly state the basis for the deviation.

NA

C. Permit based on general or statewide deviation contained in approved policy statement.

NA

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote<sup>1</sup>

Not Applicable

- VI. Documentation of Statement of Basis.

- A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

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<sup>1</sup> Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

PERMIT TO CONSTRUCT

PERMIT NO. 88-506  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

Cheyenne Stage II Water Line

This permit hereby authorizes the applicant:

Corpro Companies  
7388 S. Revere Pkwy, Suite 702  
Englewood, CO 80112

to construct, install or modify anode ground beds according to the procedures and conditions of the application number 88-506. The facilities are located in S2, T13N, R74W, S4, T13N, R76W and S31, T14N, R72W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of five years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

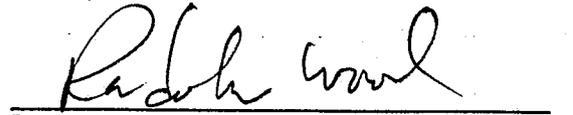
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

12-6-88  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

CONDITIONS TO PERMIT TO CONSTRUCT #88-506

1. The cathodic protection anode bed will be installed in accordance with the conditions of this permit and plans and specifications submitted in permit to construct application number 88-506.
2. The coke breeze backfill has a total organic content no greater than .2%.
3. If any aquifers are encountered during installation of the anode bed, an analysis of the water for TDS and pH will be submitted to the Water Quality Division within 90 days of installation.
4. Within 45 days after the anode bed has been installed, as-built construction plans need to be submitted to the Water Quality Division, detailing if groundwater was encountered while installing the anode bed.

cc: Jake Strohman

*10/1*

PERMIT TO CONSTRUCT

PERMIT NO. 88-508  
SEE SPECIAL CONDITIONS  
REF. NO. 87-170

New  
Renewal  
X Modified

Go Gas Convenience Store

This permit hereby authorizes the applicant:

Richard Mills  
Conoco Bulk Plant  
3200 Pearl  
Boulder, CO 80301

to construct, install or modify two hydrocarbon recovery wells and interceptor trenches and associated monitor wells to pump gasoline and contaminated groundwater from the subsurface according to the procedures and conditions of the application number 87-170. The facility is located in NW $\frac{1}{4}$ , S25, T47N, R93W in the county of Washakie, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William R. Janda  
Administrator  
Water Quality Division

Richard Wood  
Director  
Department of Environmental Quality

1-3-89  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

CONDITIONS TO PERMIT TO CONSTRUCT #88-508

The permit is issued with the requirement that the permittee abide by the following conditions:

1. Once the hydrocarbon recovery system has been installed, the owner will provide the DEQ/WQD with a report that details the logs and locations.
2. The results of any analyses conducted on soil or water removed from this recovery system during the lifetime of the facility shall be provided to the Water Quality Division as soon as they are available.
3. All wells will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations.
4. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
5. The issuance of this permit does not relieve the permittee from obligations to complete an Extent of Contamination study and any future remedial actions which may be required.
6. The permittee shall notify the DEQ/WQD five days prior to the exact dates of drilling and installation.
7. The permittee shall notify the division of the name, phone number and address of the on-site operator of the recovery system.
8. The permittee shall operate the recovery system continuously unless DEQ/WQD allows other operational plans. The division shall be notified immediately in the event that the hydrocarbon recovery system is not operational for more than 24 hours.

Conditions to Permit 88-508 (continued)

9. Prior to operation of the hydrocarbon recovery system, an approved Operation and Maintenance Manual shall be provided to the division and to all operators. The O & M Manual shall contain, at a minimum, a schematic, operations guide, maintenance schedule, troubleshooting guide, discharge requirements and limitations, DEQ contact, provisions in the event of a spill, methods for handling and disposing of hydrocarbon product and contaminated water in a proper manner, and safety requirements.
10. The hydrocarbon recovery system shall be "winterized" to prevent freeze-up and breakdown.
11. A status report shall be provided to the division on a monthly basis. A quarterly report shall be submitted by the last day of January, April, July and October. All reports are due within 30 days of the end of the period. The quarterly report shall include at a minimum, volumes pumped of water and hydrocarbon product, recovery rates, downtime and dates, effectiveness of the recovery system, monitoring data for all monitor wells and the recovery well including analyses for benzene, ethylbenzene, toluene, xylene and lead in all wells that do not have a product layer, current pumping rates, the radius of influence, groundwater gradient and product thickness maps. If the above information is included in all monthly reports, it need not be included in the quarterly report.
12. All contaminated soil, contaminated water, and hydrocarbon product shall be disposed of properly.
13. The vapors in the school administration building shall continue to be mitigated until otherwise directed by the department.
14. If the modification to permit 87-170 does not adequately address the plume of contamination between RW1 and RW2, additional recovery measures will be necessary.
15. All permit conditions of permit 87-170 are binding.

cc: William L. Garland  
Jake Strohman  
Steve Gerber  
Matt Langenfeld

PERMIT TO CONSTRUCT

PERMIT NO. 88-509

X New  
Renewal  
Modified

Wyoming Air National Guard

This permit hereby authorizes the applicant:

Wyoming Air National Guard  
Box 2268, Municipal Airport  
Cheyenne, WY 82003

to construct, install or modify public water distribution system according to the procedures and conditions of the application number 88-509. The facility is located in S19, T14N, R66W, SW1/4 in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

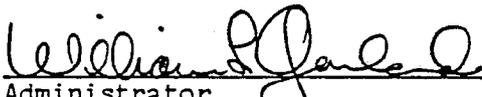
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

1-6-89  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

cc: Daryl G. Johnson  
AVI, pc  
1700 Westland Road  
Cheyenne, WY 82001

AP

PERMIT TO CONSTRUCT

PERMIT NO. 88-510  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

PDQ FOOD STORE #2101

This permit hereby authorizes the applicant:

PDQ Food Stores of Wyoming, Inc.  
12500 E. Iliff, Suite 210  
Aurora, Colorado 80014

to construct, install or modify a monitor well system according to the procedures and conditions of the application number 88-510. The facility is located in S34 T14N R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 1 (one) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

12-5-88  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 88-510

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-510. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:

Conditions to Permit 88-510 (continued)

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
  - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
  - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
  - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
  - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - h. A protective casing and locking cap is strongly recommended;
  - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
  - b. A site map showing physical features, well or borehole locations and elevations;
  - c. Final location, construction details and logs of all boreholes and monitoring wells;
  - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;

Conditions to Permit 88-510 (continued)

- f. Sample collection procedures;
  - g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:
- EPA Methods 602 (BETX) and 418.2 (TPH)
- The results of these analyses shall be submitted to the Sheridan office.
11. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.
12. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.
13. The time schedule for plan implementation as submitted in the proposal shall be adhered to.

cc: Brant Dennis, Fox & Associates  
4765 Independence Street, Wheatridge, CO 80033  
Jake Strohmman

RF

PERMIT TO CONSTRUCT

PERMIT NO. 88-511  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

PDQ FOOD STORE #2102

This permit hereby authorizes the applicant:

PDQ Food Stores of Wyoming, Inc.  
12500 E. Iliff, Suite 210  
Aurora, Colorado 80014

to construct, install or modify a monitor well system according to the procedures and conditions of the application number 88-511. The facility is located in S19 T14N R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 1 (one) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

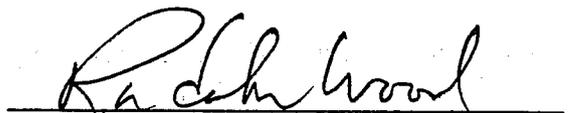
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

12-5-88  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 88-511

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-511. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:

Conditions to Permit 88-511 (continued)

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
  - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
  - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
  - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
  - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - h. A protective casing and locking cap is strongly recommended;
  - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
  8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
    - a. A chronology of events leading up to the investigation;
    - b. A site map showing physical features, well or borehole locations and elevations;
    - c. Final location, construction details and logs of all boreholes and monitoring wells;
    - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
    - e. Water level and product thickness measurements;

Conditions to Permit 88-511 (continued)

- f. Sample collection procedures;
  - g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:
- EPA Methods 602 (BETX) and 418.2 (TPH)
- The results of these analyses shall be submitted to the Sheridan office.
11. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.
12. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.
13. The time schedule for plan implementation as submitted in the proposal shall be adhered to.

cc: Brant Dennis, Fox & Associates  
4765 Independence Street, Wheatridge, CO 80033  
Jake Strohmman

RF

PERMIT TO CONSTRUCT

PERMIT NO. 88-512  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

PDQ FOOD STORE #2103

This permit hereby authorizes the applicant:

PDQ Food Stores of Wyoming, Inc.  
12500 E. Iliff, Suite 210  
Aurora, Colorado 80014

to construct, install or modify a monitor well system according to the procedures and conditions of the application number 88-512. The facility is located in S36 T14N R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 1 (one) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

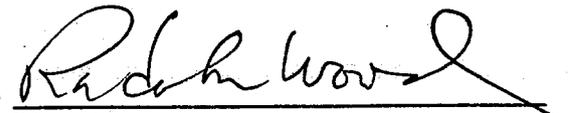
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

12-5-88

Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 88-512

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-512. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:

Conditions to Permit 88-512 (continued)

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
  - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
  - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
  - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
  - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - h. A protective casing and locking cap is strongly recommended;
  - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
  - b. A site map showing physical features, well or borehole locations and elevations;
  - c. Final location, construction details and logs of all boreholes and monitoring wells;
  - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;

Conditions to Permit 88-512 (continued)

- f. Sample collection procedures;
  - g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the parameters listed below:
- EPA Methods 602 (BETX) and 418.2 (TPH)
- The results of these analyses shall be submitted to the Sheridan office.
11. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.
12. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.
13. The time schedule for plan implementation as submitted in the proposal shall be adhered to.

cc: Brant Dennis, Fox & Associates  
4765 Independence Street, Wheatridge, CO 80033  
Jake Strohman

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002

PROJECT: Big Horn Lumber Yard Waterline Extension

ARCHITECT OR ENGINEER: John Erickson  
Gertsch/Baker & Associates  
P. O. Box 880  
Laramie, WY 82070

APPLICANT:

WATER QUALITY DIVISION REFERENCE NUMBER: 88-513

REVIEWING ENGINEER: Dave Montague *DM*

DATE OF REVIEW: December 2, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. Submit a blue permit application form (enclosed).
2. A double check valve must be located between the sprinkler system and the water main to protect the cross-connection (DEQ Water Quality Rules & Regulations Chapter XII Section 14, Table on page 73).

/mad

PERMIT TO CONSTRUCT

PERMIT NO. 88-513  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

Big Horn Lumber Yard Waterline Extension

This permit hereby authorizes the applicant:

Big Horn Lumber Company, Inc.  
1100 South Pine  
Laramie, Wyoming 82070

to construct, install or modify public water distribution system according to the procedures and conditions of the application number 88-513. The facility is located in Section 5, T15N, R73W, NW $\frac{1}{4}$  in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William Garland  
Administrator  
Water Quality Division

L. Alan Edwards  
Director  
Department of Environmental Quality

January 12, 1989  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

CONDITIONS FOR PERMIT 88-513

A double check valve shall be installed between the sprinkler system and the water main to protect the cross-connection as required by the Department of Environmental Quality Water Quality Rules and Regulations Chapter XII. As-built drawings will be submitted to the DEQ/Water Quality Division upon completion of the project.

PERMIT TO CONSTRUCT

PERMIT NO. 88-514  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

South Riverside Acres #1 Public Water Supply Well

This permit hereby authorizes the applicant:

Eric A. Distad, Attorney for District  
P O Box 2314  
Casper, WY 82602

to construct, install or modify public water supply well according to the procedures and conditions of the application number 88-514. The facility is located in S6, T33N, R77W, NW1 in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

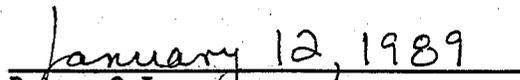
Nothing in this permit shall be construed to preclude the institution of any leg. action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

#### CONDITIONS TO PERMIT TO CONSTRUCT #88-514

1. This construction permit is strictly for the construction of the public water supply well. A second permit application will need to be submitted for the public water supply system after the final groundwater well construction has been approved.
2. Before the public water supply well is constructed, data from the test boring shall be submitted supporting the screen slot size and gravel pack size (if required) which has been chosen. Information shall also be submitted giving the proposed screen locations, screen intervals, size and length of casing and liners, and casing wall thickness.
3. Yield and drawdown tests shall be performed on every production well after construction or subsequent treatment and prior to placement of the permanent pump. The test methods shall be clearly indicated in the final report. The test pump capacity, at maximum anticipated drawdown, shall be at least 1.5 times the design rate anticipated. The test shall provide for continuous pumping for at least 24 hours or until stabilized drawdown has continued for at least 6 hours when test pumped at 1.5 times the design pumping rate.
4. A final report shall be submitted for approval of the Department of Environmental Quality, Water Quality Division within 30 days after the groundwater well has been constructed. The final report shall include:
  - A. Geology of aquifer and overlying strata.
  - B. Summary of source exploration data, including test well depth and method of construction; test pumping rates and duration; and water levels and specific yield.

Conditions to Permit 88-514 (continued)

- C. Water quality, including biological, radiological and chemical quality data sufficient to determine necessary treatment processes and compliance with all drinking water standards of the Safe Drinking Water Act.
- D. Well construction data which shall include as constructed screen locations, size of screen openings, screen intervals, accurate records of drill hole diameters and depths, assembled order, size and length of casing and liners, casing wall thickness, grouting depths, formations penetrated, water levels, and location of any blast charges.
- E. Yield and drawdown test data.

cc: Lawrence M. Besson, Geocivil Engineers, Inc, 505 E 11th St, Casper, WY 82601

PERMIT TO CONSTRUCT

PERMIT NO. 88-515

X New  
Renewal  
Modified

Melcher Small Septic System

This permit hereby authorizes the applicant:

Dan Melcher  
4653 Palmer Canyon Road  
Wheatland, WY 82201

to construct, install or modify small wastewater system according to the procedures and conditions of the application number 88-515. The facility is located in S21, T24N, R68W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

12-6-88  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

RF

PERMIT TO CONSTRUCT

PERMIT NO. 88-516

X New  
Renewal  
Modified

EDC SEDIMENTATION POND NO. 7

This permit hereby authorizes the applicant:

Arch Mineral Corporation  
P O Box 460  
Hanna, Wyoming 82327

to construct, install or modify a sedimentation pond according to the procedures and conditions of the application number 88-516. The facility is located in Section 18, T22, R82W, SWSE $\frac{1}{4}$  in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

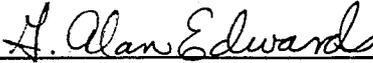
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

February 1, 1989  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

DM/jn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002

PROJECT: EDC Sedimentation Pond #7

ENGINEER: James Felber  
Arch Mineral Corporation  
P. O. Box 460  
Hanna, Wyoming 82327

APPLICANT: Arch Mineral Corporation  
P. O. Box 460  
Hanna, Wyoming 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 88-516

REVIEWING ENGINEER: Dave Montague 

DATE OF REVIEW: December 5, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. The Topographic Factor (LS) was given as 248.26. However, using Table C-1 in the National Cooperative Highway Research Program Report 221, LS is found to be 9.00. Therefore, LS needs to be corrected, and all computations using this factor needs to be recomputed.
2. Provide tables, equations, etc. used to determine the Weighted Curve No. (CN), Runoff (Q), and Total Runoff.
3. Provide how adequate volume will always be maintained to contain the 10 year-24 hour storm event so discharge will not occur until the NPDES permit parameters can be met.
4. Provide how the inlet structures will be designed to minimize erosion, disturbance of the pond bottom, and resuspension of silts or colloidal soil particles.

/jn



THE STATE OF WYOMING

MIKE SULLIVAN  
GOVERNOR



## Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration  
(307) 777-7937

Air Quality Division  
(307) 777-7391

Land Quality Division  
(307) 777-7756

Solid Waste Management Program  
(307) 777-7752

Water Quality Division  
(307) 777-7781

January 6, 1989

Mr. Don Havig  
Mountain States Petroleum  
P O Box 1537  
Billings, MT 59103

RE: Bairs Conoco, Casper, Wyoming

Dear Mr. Havig:

As we discussed on January 5, 1989 via telephone, I am returning your application to install monitor wells at the above stated facility. A plan for the extent of contamination study requested in a November 9, 1988 letter by Tom Pilch must be approved by the Water Quality Division before implementation. I have included a document entitled "Recommended Contents for Extent of Contamination Plan", this document should aid you in the formulation of a plan. I have also included a listing of Groundwater Consulting Engineers who are experienced at performing extent of contamination studies similar to the one requested in the November 9 letter. I would strongly suggest that you have a groundwater consultant perform the extent of contamination study for the Bairs Conoco site.

This division appreciates your concern in this matter. A plan to define the extent of contamination at the Bairs Conoco site should be submitted to this division within 30 days of receipt of this letter. If have any questions, feel free to call me at 777-7781.

Sincerely,

Scott C. Forister  
Environmental Engineering Specialist  
Water Quality Division

SCF/mad

cc: Jake Strohman, DEQ/WQD  
attachments

*file*

PERMIT TO CONSTRUCT

PERMIT NO. 88-518  
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

CITY OF CASPER MAINTENANCE GARAGE

This permit hereby authorizes the applicant:

City of Casper  
1800 E. K Street  
Casper, Wyoming 82601

to construct, install or modify a test hole and groundwater monitor well system according to the procedures and conditions of the application number 88-518. The facility is located in NE/NE S4 T33N R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of 1 (one) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

12-21-88  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 88-518

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-518. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:

Conditions to Permit 88-518 (continued)

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
  - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
  - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
  - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
  - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - h. A protective casing and locking cap is strongly recommended;
  - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
  8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
    - a. A chronology of events leading up to the investigation;
    - b. A site map showing physical features, well locations and elevations;
    - c. Final location, construction details and logs of all monitoring wells;
    - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
    - e. Water level and product thickness measurements;
    - f. Sample collection procedures;

Conditions to Permit 88-518 (continued)

- g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
  10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for EPA 8020 (BTX) and EPA 418.1 (TPH) parameters. Monitor wells associated with the toluene tank shall be sampled and the wastewater analyzed for EPA 8020 (BTX), EPA 418.1 (TPH) and EPA 624 parameters.
  11. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.
  12. The time schedule for plan implementation as submitted in the November 21, 1988 proposal shall be adhered to.

cc: Tom Jaap, Western Water Consultants  
701 Antler Drive, Suite 223, Casper, WY 82601  
Jake Strohmman

88-519 14



THE STATE OF WYOMING



MIKE SULLIVAN  
GOVERNOR

# Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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February 6, 1989

Mr. Rex Guice  
P O Box 359  
Laramie, WY 82070

RE: Groundwater monitoring well permit application

Dear Mr. Guice:

This letter is to accompany the permit for the construction of the monitoring wells at the Four "G" Enterprises, Inc. Gunslinger Phillips 66 service station. The construction of the monitoring wells has been permitted, and the conditions we have attached to the construction permit must be complied with, along with any conditions and procedures you had submitted with the permit application. The purpose of this letter is to make you aware that the subsurface contamination investigation plan you have submitted will need to be expanded should subsurface hydrocarbon contamination be discovered. The investigation will need to define the lateral and vertical extent of contamination of the soil and groundwater. The extent of groundwater contamination will be determined by both free product thickness and the extent of the plume of dissolved product constituents. If additional monitoring wells are needed to determine the extent of contamination, you should be prepared to construct the wells during the initial drilling phase so costs, and time, could be held down.

Upon receipt of the construction permit please notify our office as soon as possible when you plan to construct the monitoring wells so I or someone from this office can plan to be present. Again, personnel from the WQD cannot act as consultants. Any decisions to be made in the field must be made by personnel representing your company. Please call if you have any questions.

Sincerely,

Dave Montague  
Engineering Specialist  
Water Quality Division

DM/jt  
cc: Jake Strohman DEQ/WQD

PERMIT TO CONSTRUCT

PERMIT NO. 88-519  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

Gunslinger 66

This permit hereby authorizes the applicant:

Rex Guice  
P O Box 359  
Laramie, WY 82070

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 88-519. The facility is located in S31, T16N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

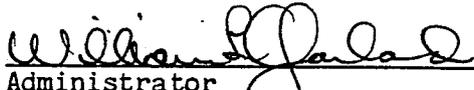
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

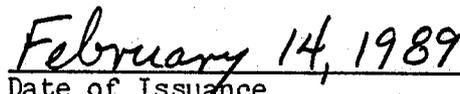
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

CONDITIONS TO PERMIT TO CONSTRUCT #88-519

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-519. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial

measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
  - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
  - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
  - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
  - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
  - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - h. A protective casing and locking cap is strongly recommended;
  - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
  - a. A chronology of events leading up to the investigation;

Conditions to Permit 88-519 (continued)

- b. A site map showing physical features, well locations and elevations;
  - c. Final location, construction details and logs of all monitoring wells;
  - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;
  - f. Sample collection procedures;
  - g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed for the parameters listed below:
- BTEX, TPH
- The results of these analyses shall be submitted to the Cheyenne office by the last day of the month following the end of sampling due date. The first set of results are due by the last day of March.
11. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.
12. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

DM/nc

cc: Jake Strohman

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-521

DORCAS SMALL WASTEWATER FACILITY  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Don A. Dorcas

Box 4

Devil's Tower, Wyoming 82714

to construct, install or modify a small wastewater treatment facility according to the procedures and conditions of the application No. 88-521. The facility is located in Section 33, T.53N., R.65W., in the County of Crook, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

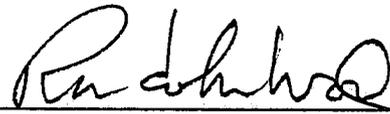
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

12-21-88  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.



THE STATE OF WYOMING

MIKE SULLIVAN  
GOVERNOR



## Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration  
(307) 777-7937

Air Quality Division  
(307) 777-7391

Land Quality Division  
(307) 777-7756

Solid Waste Management Program  
(307) 777-7752

Water Quality Division  
(307) 777-7781

December 23, 1988

C.F. Pickard  
True Drilling Company  
P. O. Drawer 2360  
Casper, Wyoming 82602

Re: Permit 88-522

Dear Claude:

The well construction that was submitted for permit number 88-522 does not meet the standard well construction that is required by the Department of Environmental Quality, Water Quality Division (DEQ/WQD).

After the pipe is set in the well and the gravel pack is installed to a depth two feet above the uppermost slots, bentonite or a bentonite grout is required from the top of the gravel pack to the surface. The protective casing can then be cemented into a sloping concrete cap.

If you have any questions regarding this requirement please call 777-7781.

Sincerely,

Carol Wagner Pfarr  
Groundwater Engineering Evaluator  
Water Quality Division

CWP/jn

PERMIT TO CONSTRUCT

PERMIT NO. 88-522  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

TRUE DRILLING COMPANY

This permit hereby authorizes the applicant:

True Drilling Company  
P O Drawer 2360  
Casper, Wyoming 82602

to construct or install monitoring wells according to the procedures and conditions of the application number 88-522. The facility is located in Section 4 NW SW T33N R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

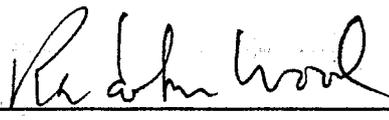
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

1-3-89  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct #88-522

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-522. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.

Conditions to Permit 88-522 (continued)

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
  - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
  - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
  - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
  - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
  - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - h. A protective casing and locking cap is strongly recommended;
  - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
  - a. A chronology of events leading up to the investigation;
  - b. A site map showing physical features, well locations and elevations;
  - c. Final location, construction details and logs of all monitoring wells;
  - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;

Conditions to Permit 88-522 (continued)

- e. Water level and product thickness measurements;
  - f. Sample collection procedures;
  - g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the parameters listed below:
- Benzene, Toluene, Ethlybenzene, Xylene, TPH, Oil and Grease
- The results of these analyses shall be submitted to the Cheyenne office by the last day of the month following the end of each quarter (each quarter, the year, sampling due date, etc). The first set of results are due by the last day of April 1989.
11. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.
12. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

cc: Jake Strohman

PERMIT TO CONSTRUCT

New

Permit No. 88-523

Renewal

Modified

Edward Small Wastewater Treatment Facility  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Edwards Ranch, Inc.

P.O. Box 15

Emblem, WY 82422

to construct, install, or modify a septic tank/leach field facility according to the procedures and conditions of the application No. 88-523. The facility is located in SE1/4 Sec. 16, T52N, R96W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met.

The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

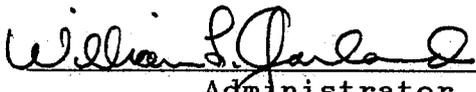
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

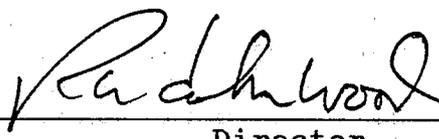
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

12-27-88  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

RF

PERMIT TO CONSTRUCT

PERMIT NO. 88-524  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

Cheyenne Stage II Water Line

This permit hereby authorizes the applicant:

Corpro Companies  
7388 S. Revere Pkwy, Suite 702  
Englewood, CO 80112

to construct, install or modify anode ground beds according to the procedures and conditions of the application number 88-524. The facilities are located in S5, T13N, R743 in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of five years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

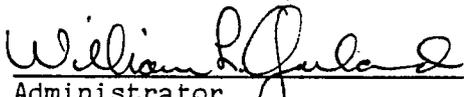
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

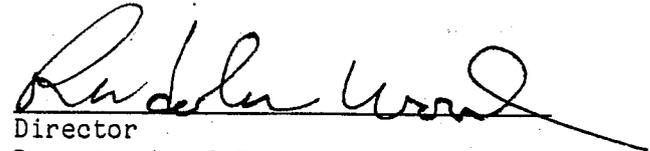
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

12-23-88  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

CONDITIONS TO PERMIT TO CONSTRUCT #88-524

1. The cathodic protection anode bed will be installed in accordance with the conditions of this permit and plans and specifications submitted in permit to construct application number 88-524.
2. The coke breeze backfill has a total organic content no greater than .2%.
3. If any aquifers are encountered during installation of the anode bed, an analysis of the water for TDS and pH will be submitted to the Water Quality Division within 90 days of installation.
4. Within 45 days after the anode bed has been installed, as-built construction plans need to be submitted to the Water Quality Division, detailing if groundwater was encountered while installing the anode bed.

cc: Jake Strohman

THE STATE



OF WYOMING

MIKE SULLIVAN  
GOVERNOR

RECEIVED

NOV 30 1992

WATER QUALITY DIVISION  
WYOMING



## Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES  
(307) 332-5085

AIR QUALITY  
(307) 332-6755

LAND QUALITY  
(307) 332-3047

SOLID & HAZARDOUS WASTE  
(307) 332-6924

WATER QUALITY  
(307) 332-3144

November 24, 1992

Mr. Daniel E. Rinker  
D&B Services, Inc.  
Box 148  
Mountain View, WY 82939

RE: 88-525RRRRR  
D&B Disposal Lagoon

Dear Mr. Rinker:

Due to the lack of response, your application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct process.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and punishable with fines not to exceed \$10,000 per day of violation. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules and Regulations, must be followed.

Sincerely,

Randall R. Taylor, P.E.  
Southwest District Supervisor

RRT:mam

xc: IPS, DEQ/WQD, Cheyenne

14

PERMIT TO CONSTRUCT

PERMIT NO. 88-526  
See Conditions

X New  
Renewal  
Modified

H & H Orin Station Monitor Wells

This permit hereby authorizes the applicant:

Harvey Heinbach  
1 Delta Environmental Consultants  
2637 Midpoint Drive, Suite F  
Fort Collins, CO 80525

to construct, install or modify monitor well network according to the procedures and conditions of the application number 88-526. The facility is located in SE $\frac{1}{4}$ , NE $\frac{1}{4}$ , S13, T31N, R70W in the county of Converse, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

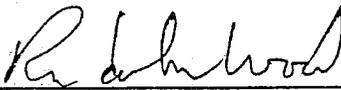
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

1-3-89  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions to Permit to Construct # 88-526

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-526. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface

Conditions to Permit 88-526 (continued)

contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
  - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
  - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
  - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
  - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
  - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - h. A protective casing and locking cap is strongly recommended;
  - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:

Conditions to Permit 88-526 (continued)

- a. A chronology of events leading up to the investigation;
  - b. A site map showing physical features, well locations and elevations;
  - c. Final location, construction details and logs of all monitoring wells;
  - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;
  - f. Sample collection procedures;
  - g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility including the domestic well shall be sampled and the wastewater analyzed quarterly for benzene, ethylbenzene, toluene, xylene, total hydrocarbons until other monitoring operations are allowed by the DEQ/WQD. Product too thin to measure shall be noted and reported (i.e., film sheen, odor, iridescence, etc.). When measureable product layers exist, they are to be measured and the above parameters need not be sampled for. The results of these analyses are due in the Cheyenne office the last day of the month following the end of each quarter in January, April, July, and October. Samples should be collected during the first week of the last month of each quarter to ensure timely submittal. The first set of results are due by the last day of February 1989.
11. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

cc: Jake Strohman

RF

PERMIT TO CONSTRUCT

PERMIT NO. 88-527  
See Conditions

X New  
Renewal  
Modified

Boyer Small Septic System

This permit hereby authorizes the applicant:

Donald L. Boyer  
1611 West College Drive  
Cheyenne, WY 82007

to construct, install or modify small wastewater system according to the procedures and conditions of the application number 88-527. The facility is located in NW $\frac{1}{4}$ , Section 18, T13N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

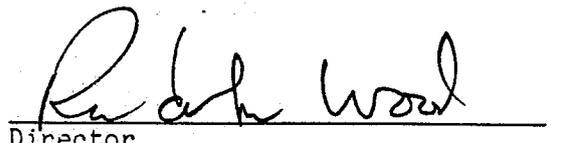
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
Administrator  
Water Quality Division

  
Director  
Department of Environmental Quality

12-23-88  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions to Permit to Construct 88-527

1. The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The 201 Facilities Plan Final Report: City of Cheyenne, South Cheyenne Water and Sewer District and Laramie County requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be abandoned or integrated into the regional system in accordance with the requirements of the Facility Plan.
2. The permittee shall notify Don Pack, Cheyenne Laramie County Health Department, Division of Environmental Health, 1710 Snyder Avenue, Cheyenne, WY 82001, phone number (307) 638-8545 of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.

cc: Don Pack, Laramie County Environmental Health  
Cheyenne Laramie Co. Health Dept., Division of Environmental Health, 1710 Snyder Ave., Cheyenne, WY 82001

L.F.

PERMIT TO CONSTRUCT

[X] New

Permit No. 88-528R

[ ] Renewal

[ ] Modified

Gooseberry Creek Rest Area  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Wyoming Highway Department

P.O. Box 1709

Chevenne, WY 82001

to construct leachfield for caretaker's trailer and leachfield  
for rest area facilities according to the procedures and  
conditions of the application No. 88-528R. The facility is  
located in Sec. 30, T47N, R98W in the County of Hot Springs,  
in the State of Wyoming. This permit shall be effective for a  
period of two (2) years (five (5) years maximum) from the date of  
issuance of this permit.

The issuance of this permit provides that the Department of  
Environmental Quality has evaluated and determined that the  
application meets minimum applicable construction and design  
standards. The compliance with construction standards and the  
operation and maintenance of the facility to meet the applicant's  
engineer's design are the responsibility of the applicant, owner,  
or operator.

The authority to construct granted by this permit does not mean  
or imply that the Wyoming Department of Environmental Quality  
guarantees or insures that the permitted facility, when con-  
structed, will meet applicable discharge permit conditions or  
other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the  
construction or the design of the facility described herein.  
This permit indicates only that standards of design and construc-  
tion required by the Environmental Quality Act have been met.

The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, WY 82520; telephone, 332-3144.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William J. Paul  
Administrator  
Water Quality Division

G. Alan Edwards  
Director  
Dept. of Environmental Quality

February 8, 1989  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

PERMIT NO. 88-529  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

POLLY OIL - EAST C STREET

This permit hereby authorizes the applicant:

Polly Oil Company  
892 West English Avenue  
Casper, Wyoming 82601

to construct, install or modify a monitor well system according to the procedures and conditions of the application number 88-529. The facility is located in T33N R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of 1 (one) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

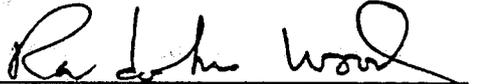
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

1-6-89  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 88-529

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-529. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
  - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
  - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
  - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
  - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
  - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
  - h. A protective casing and locking cap is strongly recommended;
  - i. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
  - j. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
  - k. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
  - b. A site map showing physical features, well locations and elevations;
  - c. Final location, construction details and logs of all monitoring wells;
  - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
  - e. Water level and product thickness measurements;
  - f. Sample collection procedures;

- g. Sampling analytical results;
  - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
  - i. A potentiometric surface map showing the direction of groundwater movement; and
  - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for EPA 602 (BTX) and EPA 418.1 (TPH) parameters.
11. The results of these analyses shall be submitted to the Cheyenne office.
12. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.
13. The time schedule for plan implementation as submitted in the proposal shall be adhered to.
- cc: Core Labs, 420 W. 1st Street, Casper, WY 82601  
Jake Strohmman, DEQ/WQD



THE STATE OF WYOMING

MIKE SULLIVAN  
GOVERNOR

11CON 1 94778



# Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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December 28, 1989

Mr. Don Paully  
Quality Petroleum Company  
P O Box 279  
Mills, Wyoming 82644

Re: Closure Letter, 1480 C Street, Casper, Project No. 88-529

Dear Mr. Paully:

The Water Quality Division has reviewed the results from the most recent sampling event from the monitoring wells at the above referenced facility. Based on the submitted results and the initial report of investigation, it appears that the leaking valve noted during the site inspection did not impact the groundwater at the site. This letter is being written to inform you that no further investigation will be required at the site with regard to the removed underground storage tanks. Be advised that this division has closed the file on the project.

If you do not anticipate using the monitor wells at the site in the future, the wells should be abandoned according to Water Quality Division rules and regulations. A plugging record should be submitted to this division and to the State Engineer's office.

This division appreciates your cooperative attitude in getting this matter resolved. If you have any further questions, feel free to call me at 777-6183.

Sincerely,

Scott C. Forister  
Senior Analyst  
Water Quality Division

SCF/jt

25

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-530R

RAWHIDE MINE KIT FOX RESERVOIR  
SEDIMENTATION FACILITY  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

The Carter Mining Company

P. O. Box 3007

Gillette, Wyoming 82717

to construct, install or modify a sedimentation facility according to the procedures and conditions of the application No. 88-530R. The facilities are located in Section 16, T.51N., R.72W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

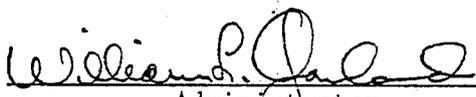
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

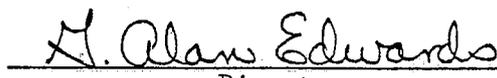
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

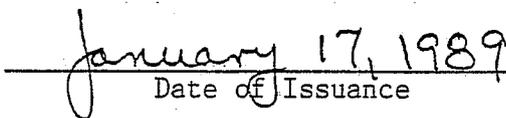
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

xc: Doyl M. Fritz  
Western Water Consultants, Inc.  
P. O. Box 3016  
Sheridan, Wyoming 82801

15

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-531

RAWHIDE MINE SEDIMENT TRAP ST-117-W RESERVOIR  
SEDIMENTATION FACILITY  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

The Carter Mining Company

P. O. Box 3007

Gillette, Wyoming 82717

to construct, install or modify a sedimentation facility according to the procedures and conditions of the application No. 88-531. The facilities are located in Section 16, T.51N., R.72W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

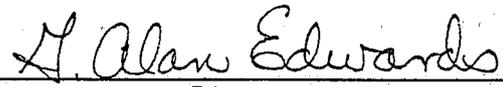
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

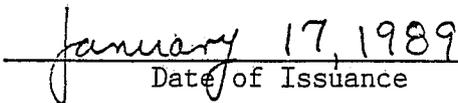
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

xc: Doyl M. Fritz  
Western Water Consultants, Inc.  
P. O. Box 3016  
Sheridan, Wyoming 82801

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-532RRR

CORDERO MINE SPP #1  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company

P. O. Box 1449

Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-532RRR. The facility is located in Section 35, T.47N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

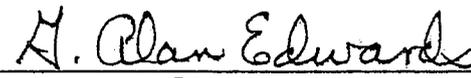
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

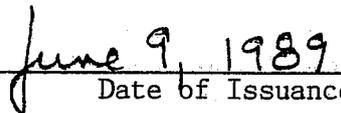
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-533RRR

CORDERO MINE SPP #3  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company

P. O. Box 1449

Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-533RRR. The facility is located in Section 35, T.47N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

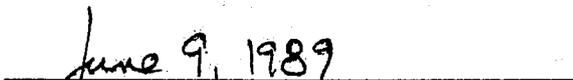
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-534RRR

CORDERO MINE SPP #4  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company

P. O. Box 1449

Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-534RRR. The facility is located in Section 2, T.46N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

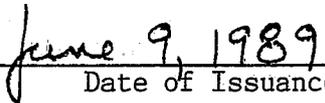
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-535RRR

CORDERO MINE SPP #5  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company

P. O. Box 1449

Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-535RRR. The facility is located in Section 2, T.46N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

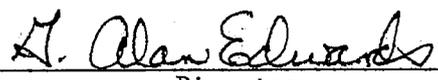
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

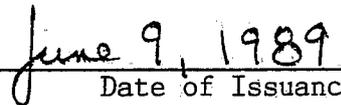
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-536RRR

CORDERO MINE SPP #6  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company

P. O. Box 1449

Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-536RRR. The facility is located in Section 2, T.46N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

William P. Jarland  
Administrator  
Water Quality Division

G. Alan Edwards  
Director  
Dept. of Environmental Quality

June 9, 1989  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-537RRR

CORDERO MINE SPP #7  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company

P. O. Box 1449

Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-537RRR. The facility is located in Section 2, T.46N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

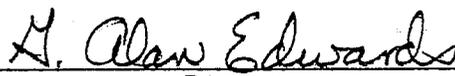
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

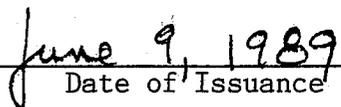
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-538RRR

CORDERO MINE SPP #8  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company

P. O. Box 1449

Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-538RRR. The facility is located in Section 2, T.46N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

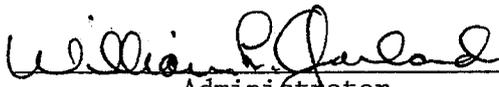
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

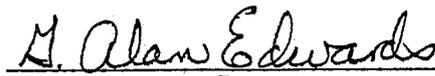
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

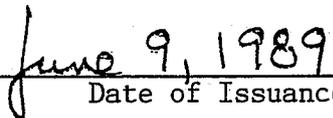
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-539RRR

CORDERO MINE SPP #9  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company

P. O. Box 1449

Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-539RRR. The facility is located in Section 2, T.46N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

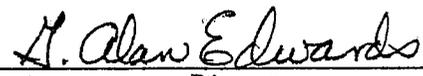
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

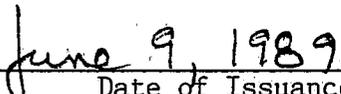
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-54ORRR

CORDERO MINE SPP #10  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company  
P. O. Box 1449  
Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-54ORRR. The facility is located in Section 2, T.46N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

William J. Jenkins  
Administrator  
Water Quality Division

M. Alan Edwards  
Director  
Dept. of Environmental Quality

June 9, 1989  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-541RRR

CORDERO MINE SPP #12  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company

P. O. Box 1449

Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-541RRR. The facility is located in Section 1, T.46N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

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Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

William L. Jones  
Administrator  
Water Quality Division

H. Alan Edwards  
Director  
Dept. of Environmental Quality

June 9, 1989  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-542RRR

CORDERO MINE SPP #13  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company  
P. O. Box 1449  
Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-542RRR. The facility is located in Section 3, T.46N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

William R. Carlisle  
Administrator  
Water Quality Division

H. Alan Edwards  
Director  
Dept. of Environmental Quality

June 9, 1989  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-543RRR

CORDERO MINE SPP #15  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Cordero Mining Company  
P. O. Box 1449  
Gillette, Wyoming 82716

to construct, install or modify a sediment control facility according to the procedures and conditions of the application No. 88-543RRR. The facility is located in Section 35, T.47N., R.71W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

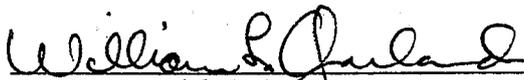
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

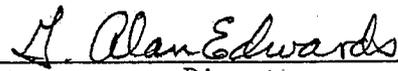
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

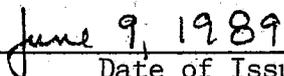
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 88-544  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

LITTLE AMERICA SERVICE STATION.

This permit hereby authorizes the applicant:

Little America  
West Lincolnway (Highway 30)  
Cheyenne, Wyoming 82001

to construct, install or modify a groundwater pollution control vapor recovery wells according to the procedures and conditions of the application number 88-544. The facility is located in Section 2, T13N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

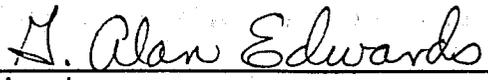
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

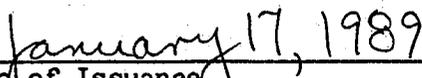
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Department of Environmental Quality

  
\_\_\_\_\_  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

Conditions for Permit to Construct 88-544

1. The vapor detection wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-544. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
  - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;

Conditions to Permit 88-544 (continued)

- b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
  - c. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
  - d. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
  - e. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap.
6. Keys for the locked vapor detection wells shall be kept on site at all times.
7. A complete report which details the findings of the pilot test is due to the Wyoming Department of Environmental Quality, Water Quality Division, 45 days after the wells are installed.

CWP/jn

RF

STATE OF WYOMING  
DEPARTMENT OF ENVIRONMENTAL QUALITY/ WATER QUALITY DIVISION

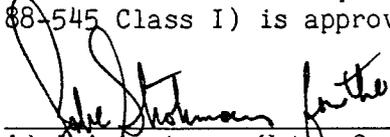
Groundwater Pollution Control Permit

APPROVAL FOR TRANSFER OF RESPONSIBILITY

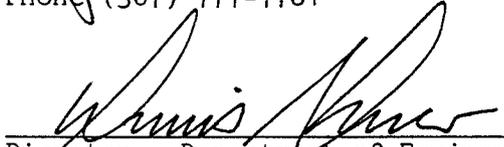
Permit No. UIC 88-545 Class I

TO: Total Minerals Corporation	and	Malapai Resources Company
913 Foster Road		913 Foster Road
Casper, Wyoming 82604		Casper, Wyoming 82604
(New/present owner/operator)		(Former owner/operator)

The transfer of the operation and all associated responsibilities of the Christensen Ranch Disposal Wellfield, (2 class I injection wells) (Permit UIC 88-545 Class I) is approved, effective September 20, 1990

  
 \_\_\_\_\_  
 Administrator - Water Quality Division  
 Phone (307) 777-7781

9/20/90  
 \_\_\_\_\_  
 Date

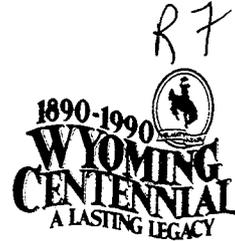
  
 \_\_\_\_\_  
 Director - Department of Environmental Quality

September 21, 1990  
 \_\_\_\_\_  
 Date



THE STATE OF WYOMING

MIKE SULLIVAN  
GOVERNOR



## Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration  
(307) 777-7937

Air Quality Division  
(307) 777-7391

Land Quality Division  
(307) 777-7756

Solid Waste Management Program  
(307) 777-7752

Water Quality Division  
(307) 777-7781

March 15, 1989

Donna Wichers  
Malapai Resources  
P O Box 9950  
Casper, WY 82609

RE: Christensen Ranch Disposal Wellfield, Permit UIC 88-545, Johnson County,  
Wyoming

Dear Mr. Wichers:

The Water Quality Division has finished processing your application for an industrial wastewater injection wellfield. No public comment has been received.

Enclosed find the approved injection permit, as we have discussed. Please submit your quarterly reports with one of the attached GPC-7 forms. Please notify us when well construction begins. We may want to inspect this construction or witness the initial MIT work.

Sincerely,

Robert F. Lucht, P.E.  
UIC Program Supervisor  
Water Quality Division

RFL/nc

Enclosures: GPC-7  
Permit

cc: Jake Strohman, DEQ/WQD  
Steve Ingle, DEQ/LQD  
Ed Francis, DEQ/LQD  
Glen Mooney, DEQ/LQD

DEPARTMENT OF ENVIRONMENTAL QUALITY  
STATE OF WYOMING  
GROUNDWATER POLLUTION CONTROL PERMIT  
AUTHORIZATION TO DISCHARGE INTO UNDERGROUND RECEIVERS  
(Permit to Inject)

(X) New

Permit Number:

( ) Modified

UIC 88-545  
UIC CLASS 1I

In compliance with the Wyoming Environmental Quality Act (W.S. 35-11-101 through 1104, specifically 301(a)(i) through (iv), Laws 1973, Ch. 250, Section 1) and Water Quality Rules and Regulations Chapter IX (September 4, 1980),

Malapai Resources  
P.O. Box 9950  
Casper, Wyoming 82609  
(307) 235-1221

is authorized to operate

the Christensen Ranch Disposal Wellfield including the Federal Holler Draw 7-B well in the center of NW1/4 Section 7, T44N, R76W and the Christensen 18-3 well in the NE 1/4 NW 1/4 Section 18, T44N, R76W in Johnson County, Wyoming,

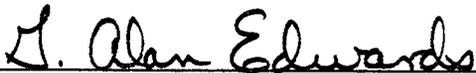
according to procedures and conditions of the application 88-545 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.



Administrator  
Water Quality Division  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002  
Phone: (307) 777-7781

March 18, 1989  
Date



Director  
Department of Environmental Quality  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002

March 23, 1989  
Date

A. Discharge (Injection) Zone and Area of Review

The area of review for this injection wellfield includes all property within the following legal description:

Township 44 North, Range 77 West, 6th P.M.

- Section 1: SE1/4 SE1/4
- Section 12: E1/2 NE 1/4
- Section 12: SE1/4 SE1/4

Township 44 North, Range 76 West, 6th P.M.

- Section 6: S1/2 SW1/4
- Section 6: SW1/4 SW1/4
- Section 7: W1/2
- Section 7: W1/2 E1/2
- Section 18: NW1/4
- Section 18: W1/2 NE1/4
- Section 18: N1/2 SW1/4
- Section 18: NW1/4 SE1/4

The receiver within the above named area of review includes the entire Parkman Sand, the entire Teapot Sand and the entire Teckla Sand. The Lewis Shale is the confining layer above the receiver and the Steele Shale and an unnamed shale in the lower Parkman provide confinement below.

B. Groundwater Classification

1. Water quality projections show that the existing water quality in the receiver is class IV with TDS values ranging between 7,500 mg/l up to 10,000 mg/l.
2. The proposed receivers lie between 7,506 feet and 8,469 feet below the ground surface. This great depth, as well as the high TDS make it technologically and economically impractical to recover these waters for anything other than industrial use.
3. Waters in these formations are associated with trace accumulations of oil and gas in the general area of these wells, but not necessarily within the area of review.

C. Authorized Operations

The permittee is authorized to inject fluids produced by the commercial in-situ uranium operations covered by Land Quality Permit to Mine #478 into 2 wells that have been converted for injection from plugged and abandoned oil and gas tests. The exact injection interval in each well is limited to the following:

<u>WELL NAME</u>	<u>PERFORATED INTERVAL</u>
Federal Holler 7-B	7,506-8,469
Christensen 18-3	7,631-8,604

Malapai may add perforations at any time within the above zones, but shall report its intention to do so 2 weeks in advance to allow the Water Quality Division to witness this operation. Perforation of any zone outside of the above constitutes a permit violation.

The injection fluid is specifically limited to fluids produced at the Irigaray or Christensen Ranch in-situ uranium operations unless prior approval is obtained. Fluids from other uranium operations may be accepted for disposal with prior approval. Produced waters from oil and gas operations may be accepted for disposal with prior approval. Fluids from industrial operations may be accepted with prior approval. IN NO CASE SHALL FLUIDS MEETING THE DEFINITION OF HAZARDOUS WASTE AS DEFINED BY THE EPA IN 40 CFR 261.31 THROUGH 261.33 BE INJECTED UNLESS THEY HAVE BEEN EXCLUDED BY THE EPA UNDER 40 CFR 260.20 and 40 CFR 260.22. The above references shall be the current references at the time that disposal is to be made. The above restriction on the disposal of hazardous waste supercedes all other provisions of this permit, notwithstanding the source of the material, location where it was produced, or reason that it is considered hazardous.

The in-situ operations above are all covered by Land Quality Division permit to mine #478. Any future amendments to this permit are specifically included in this definition when such amendments are granted.

Analyses will be required prior to injecting any fluid other than normal overproduction streams, yellowcake wash water, laboratory waste, R.O. brine, or plant washdown water. The Water Quality Division shall be contacted prior to injecting any other waste to determine which analyses will be required.

The maximum injection pressure in all wells shall be 1946 psi as measured on the surface at the top of the tubing. Malapai is required to place a recording pressure device on the top of each well that will record the injection pressure continuously. This pressure recording device can be in the form of a strip chart recorder or in the form of a solid state digital recorder capable of recording a digital pressure at least 4 times per hour, 24 hours a day.

The same recording device that records the injection pressure shall also record the annulus pressure continuously. The annulus pressure shall be maintained at 400 psi constantly, unless the injection pressure is less than 600 psi maximum. If the injection pressure is less than 600 psi, the annulus shall be maintained at a pressure 400 psi higher than the injection pressure. Pressure variations in the annulus during startup and shutdown are normal and will not be considered a permit violation when they occur. Malapai shall report to the Water Quality Division within 24 hours, any time that the annulus pressure drops to zero, or any time it increases to within 90 percent of the injection pressure.

Fluids produced during the mining of metal ores are SIC 109.

High/Low pressure kill switches shall also be installed on the casing/tubing annulus and on the injection tubing. These devices shall be set so that none of the permit conditions can be exceeded without causing a well shut-in.

All injection shall be through tubing with a packer set between 7,450 and 7,500 feet in well Federal Holler Draw 7-B and between 7,550 and 7,600 feet in well Christensen 18-3. Tubing shall be 2-7/8" internally coated with a pressure rating of 3,000 psi.

Water quality of the injected fluid is limited to the following parameters which shall not be exceeded:

<u>PARAMETER</u>	<u>PERMIT LIMIT (mg/l)</u>	<u>PERMIT LIMIT (pCi/l)</u>
URANIUM	50.0	
TOTAL RADIUM - 226		5,000

Fluids exceeding the above limits shall be treated until they meet these limits.

PH of the injected fluids shall be limited to the range between 3 and 11. Fluids not meeting the pH limitation shall be neutralized prior to injection. The pH limitation shall not limit the operator's ability to perform routine acidizing job for the purpose of improving the injectability of these wells.

At the time of construction, a step rate injection test shall be run on these wells. Injection pressure shall be limited to 10 percent less than the fracture pressure as determined by these tests. This limitation shall supercede other permit conditions if the calculated result is more than 200 psi different than the projected limitation.

Injected volume shall not exceed 5,040 barrels per day (211,680 gallons per day). This volume can be injected in either of the 2 wells, either singly or together provided that the total shall not exceed 5,040 bpd and the pressure limitations shall not be exceeded in any well.

D. Proper Operation and Maintenance

The permittee is required to conduct the operation in accordance with statements, representations and procedures presented in the complete permit application and supporting documents, as accepted and approved by the administrator.

The permittee is required at all times to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve permit compliance. 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.

The subsurface discharge (injection) authorized by permit shall be consistent with the conditions and content of the permit; any modifications which will result in a violation of permit conditions shall be reported by submission of a new or amended permit application and shall not be implemented until a new or modified permit has been issued.

E. Entry and Inspection

The permittee shall allow the administrator, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

1. 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;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.
3. Records of monitoring information shall include:
  - a. The date, exact place, and time of sampling or measurements;
  - b. The name(s) of individual(s) who performed the sampling or measurements;
  - c. The date(s) analyses were performed;
  - d. Names of individuals who performed the analyses;
  - e. The analytical techniques or methods used; and
  - f. The results of such analyses.
4. The prescribed program for this permitted activity is as follows:

The injection zone in the Parkman, Teapot and Teckla formations is overlain by a thick impermeable shale in the Lewis Formation. This shale is over 400 feet thick and provides for hydrologic isolation from the deepest aquifer meeting class I through IV under Chapter VIII of the Water Quality Rules and Regulations. For this reason, an environmental monitoring program is not necessary.

Four stock watering wells as shown on Map 4 of the application shall be sampled twice a year and analyzed for pH and TDS. These wells represent the closest points of use to the two injection wells and are not located within the area of review. Results of these analyses shall be submitted to the Water Quality Division with the first quarterly report following the sampling.

In addition to the above, Malapai is currently maintaining an extensive monitoring program in association with the in-situ leaching of uranium. The normal monitoring required for mining should pick up any massive contamination caused by either of these wells. Monitoring of shallow wells is not the primary control placed on these injection wells.

G. Requirements for Monitoring the Discharge

Discharge (injection) volume and/or pressure shall be controlled and monitored to prevent fracturing of confining strata.

The injected fluid shall be sampled and analyzed quarterly for TDS, bicarbonate, carbonate, uranium, and total radium. The results shall be submitted with the quarterly report for this system. This requirement is intended to mean that 1 sample shall be taken for the total injected fluid in both of the wells. It is not necessary to sample each of the 2 wells separately. The sample shall be a composit sample taken over 2 weeks time, and shall include a minimum of 4 samples composited together prior to analysis.

A quarterly report is required to be submitted within 30 days of the end of each calendar quarter. This report shall contain:

1. The maximum daily injection pressure (not an average pressure but an instantaneous pressure) and the maximum daily injection volume for each month within the quarter, and the dates that these maximums were reached. The accumulated total volume of waste injected for each month and the accumulated total volume injected to date.
2. The maximum daily annulus pressure and a detailed operating log for that day's operation.
3. A listing of any waste disposed of that did not originate at the Christensen Ranch or Irigaray Projects, and the dates that approval was granted for these disposals.

4. Reports of any analyses done in the quarter for this permit. This includes injectate analyses and analyses of any required water wells.
5. Reports of initial construction, any well work overs, mechanical integrity tests or pressure fall off tests run in the preceding quarter.

The permittee is free to use quarters other than calendar quarters if this would ease his work load. If quarters other than calendar quarters are to be used, Water Quality Division shall be notified prior to this change by letter.

An annual report shall consist of a quarterly report for the 4th quarter of the year that also includes a total column for the entire year's injection volumes.

#### H. Test Procedures

Test procedures for the determination of water quality parameters and constituents shall be in accord with provisions of Water Quality Rules and Regulations Chapter VIII, Section 7.

#### I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified in Section C and/or Section G of this permit.
5. 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 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
  - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.

- b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable groundwaters of the state.

A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. This 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 reoccurrence of the noncompliance.

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.
8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the administrator, it shall promptly submit such facts or information.
9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.
10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:
  - a. Well construction is complete and the permittee has submitted notice of completion of construction to the administrator, and
  - b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and
  - c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the administrator.
11. Annual reports shall be submitted to the administrator within 30 days following the anniversary date of the permit.
12. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

J. Permit Actions

After notice and opportunity for a hearing, a permit may be modified, suspended or revoked in whole or part during its term for cause which includes, but is not limited to, any of the following:

1. Violation of the permit;
2. Obtaining a permit by misrepresentation or failure of the discharge well or system.

Each permit is reviewed at least once every 5 years, and may be reviewed more frequently.

A permit may be modified at any time as may be required, including for conformity with changes in regulations or standards which occur after the permit is issued.

A permit may be modified in whole or part in order to apply more, or less, stringent standards; or prohibitions for a toxic or other substance present in the permittee's discharge, as may be ordered by the council.

This operation (permit) can be terminated by authority of the administrator for one or more permit violations.

Public notice of the permit review and request for public comment will be made every 10 years by the administrator.

K. Mechanical Integrity

Each discharge well and associated discharge facilities is required to have mechanical integrity which demonstrates the unimpaired condition of the well and facilities. The approved procedures for demonstrating the mechanical integrity for the well and facilities handling the discharge authorized by this permit consist of:

At least once a year, and more frequently if required by the administrator, the casing tubing annulus of each of these wells shall be pressure tested to 2,000 psi. A successful test shall show that there has been negligible pressure loss after 15 minutes at 2,000 psi.

At least once a year, and more frequently if required by the administrator, each of these wells shall be shut-in to observe a valid pressure fall off curve. This test shall be considered complete when the injection pressure reading becomes asymptotic to a horizontal line and remains so for 2 hours. In the event that the injection pressure reaches zero as measured at the surface, this test shall be considered complete.

At least once every 5 years, and more frequently if required by the administrator, each of these wells shall be logged using a radioactive tracer log, temperature log, or injection profile log and the results and their interpretation shall be reported to the Water Quality Division along with the next quarterly report.

Prior to injection, a cement bond log and radioactive tracer log shall be run on both of these wells. These tests shall be submitted along with the first quarterly report. The cement bond log shall show good quality bond to a point no deeper than 200 feet above the top of the Lewis Shale and extending downward to at least the bottom of the Lewis Shale.

Should any of the above tests indicate a lack of mechanical integrity, the Water Quality Division shall be notified by telephone within 24 hours and with a written report within 7 days. In the case of a failed mechanical integrity test, the well shall be immediately shut-in. Injection shall not resume until the well has been repaired and a complete mechanical integrity test including the annulus pressure test, cement bond logging, and a radioactive tracer test have all been passed. Injection shall not resume until the Water Quality Division has approved these tests.

If at any time injection occurs in any zone not within the permitted receiver, a permit violation has occurred. The operator shall prepare an estimate of the volume and quality of all wastewaters that have been injected outside of the permitted receiver. In the case where any aquifer meeting class 1 through 4 under Chapter VIII has become contaminated due to out of zone injection, the operator shall prepare and implement a plan to recover these solutions and inject them into the proper receiver.

Mechanical integrity permit violations are rare in properly operated injection wells. The Water Quality Division does not expect any of these conditions to ever be exceeded.

The operation (discharge) of any well or system will terminate immediately if mechanical integrity of the well or system fails and/or a leak or unauthorized fluid movement occurs. The discharge shall be discontinued until mechanical integrity has been restored and permission to continue the discharge has been obtained from the administrator.

#### L. Abandonment

The permittee shall notify the administrator at least 180 days before well abandonment. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the director and follow the procedures prescribed by the director for plugging and abandonment or the discontinuance of related activities:

Each of these wells shall be properly abandoned within 6 months of the end of operation. These wells shall be considered temporarily abandoned any time there is no injection for 6 full months. If these wells are to be temporarily abandoned at any time, the operator may retain them so long as all monitoring equipment is maintained in working order and all pumps are also maintained. All monitoring required under this permit shall be continued for as long as these wells are in temporary abandoned status. Should the operator remove any of the required equipment from service, the wells shall be permanently abandoned within 6 months of that time.

At the time of permanent abandonment, the following procedure shall be followed: A minimum of 100 sacks of cement shall be squeezed through the perforations using a cement retainer. The casing above the retainer shall then be filled with cement to 200 feet above the top of the Lewis Shale. A 50 sack plug shall be placed at the top of each of the following formations: Lewis Shale, Fox Hills, Lance, and Fort Union Formations. The entire surface casing shall then be filled with cement with a standard dry hole marker welded to a blind flange to be bolted over the exposed casing flange. Regardless of the above procedure, the abandonment procedure used shall not be less stringent than the procedure required by the Oil and Gas Conservation Commission for abandoned oil wells at the time of abandonment.

The possibility exists that these wells could be converted as class II enhanced recovery wells after abandonment. If this is done, the above abandonment procedure would not be required, but the Teckla, Teapot and Parkman shall be squeezed until all perforations are sealed. The bottom cement plug could be then drilled out to the Shannon and the well recompleted as a Shannon enhanced recovery well. Wyoming Oil and Gas Commission permits shall be applied for within 6 months of the end of injection or the well shall be permanently abandoned.

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- 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 permit conditions;
3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;
4. Furnish to the administrator within a reasonable time, any information which the administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the administrator, upon request, copies of records required to be kept by this permit.

N. Financial Responsibility

The permittee is required to maintain financial responsibility and resources in form approved by the director, to close, plug and abandon the discharge operation in a manner prescribed by the director.

Malapai maintains an irrevocable Letter of Credit from the First Interstate Bank of Arizona, dated August 1, 1988 for the aquifer restoration and reclamation costs for the Christensen Ranch mining operations. Included in the reclamation portion of this Letter of

Credit are costs for the installation, operation and final abandonment of a deep disposal well. Included in this cost is \$10,000 for well abandonment. The Letter of Credit (No. SB-9255) is made payable to the Wyoming Department of Environmental Quality. With approval of this permit, this Letter of Credit will be amended to include the entire cost of abandonment of each of these injection wells when they are constructed. Malapai has provided this financial responsibility protection as a result of requirements placed on it by the Land Quality Division and the Nuclear Regulatory Commission. Malapai's bond calculation shall include abandonment procedures for any well actually constructed under this permit.

O. Special Measures the Director Finds Necessary:

Neither of these wells shall be abandoned prior to the other one except in the case of a failed mechanical integrity test. The Water Quality Division will require that both wells be maintained as long as one is needed to provide a back up system to control the discharge. In the case where either of the wells fails a mechanical integrity test, that well may be abandoned if it is not needed in day-to-day operations.

Prior to any work over, perforation, mechanical integrity test, stimulation, or any physical change to the well itself, the Water Quality Division shall be notified 2 weeks in advance in order to allow an opportunity for division personnel to witness these tests.

Nothing in this section requires that both wells should be immediately constructed. Malapai is free to construct either well first and to operate with 1 well until the second well is needed. If the second well has not been constructed in 5 years from the date of this permit, Malapai shall submit documentation showing that authority to construct a second well is still needed. If authority is not needed at that time, this permit will be reissued to cover only 1 well.

P. Special Permit Conditions:

Pollution or waste which migrates into an aquifer containing a usable groundwater of the state is a violation of the permit.

Mechanical integrity -- operations terminate immediately if mechanical integrity of well or system fails and/or a leak or unauthorized fluid movement occurs.

Q. Signatories Requirement

All reports required by this permit and other requested information shall be signed as follows:

For a corporation -- by a principal executive officer of at least the level of vice-president;

For a partnership or sole proprietorship -- by a general partner or the proprietor, respectively;

For a municipality, state, federal or other public agency -- by either a principal executive officer or ranking elected official; or

By a duly authorized representative for any of the above. A person is a duly authorized representative only if:

1. The authorization is made in writing by one of the described principals;
2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and
3. The written authorization is submitted to the administrator.

If an authorization is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization must be submitted to the administrator prior to or together with any reports or information, to be signed by an authorized representative.

Any person signing a report or other requested information shall make the following certification:

"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."

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification or planned changes or anticipated noncompliance, does not stay any permit condition.

S. Permit Transfer

The owner/operator of record (permittee) is always responsible for permit compliance. A permit holder cannot transfer his permit without approval of the department director.

T. Responsibilities

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

U. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

V. Severability

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

/nc

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-546

CAMP BEARD SMALL WASTEWATER FACILITY  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Wyoming Assemblies of God

Larry M. Savage

Box 3580

Casper, Wyoming 82602

to construct, install or modify a small wastewater treatment facility according to the procedures and conditions of the application No. 88-546. The facility is located in Section 7, T.52N., R.65W., in the County of Crook, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

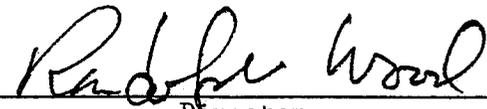
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

1-6-89  
\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

R7

PERMIT TO CONSTRUCT

PERMIT NO. 88-547  
SEE SPECIAL CONDITIONS

X New  
Renewal  
Modified

Colorado Interstate Gas Co., Rawlins Evaporation Ponds

This permit hereby authorizes the applicant:

Colorado Interstate Gas Company  
P O Box 1087  
Colorado Springs, CO 80944

to construct, install or modify industrial wastewater treatment lagoon system according to the procedures and conditions of the application number 88-547. The facility is located in SW $\frac{1}{4}$  SW $\frac{1}{4}$  Section 25, T21N, R86W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William P. Garland  
Administrator  
Water Quality Division

L. Alan Edwards  
Director  
Department of Environmental Quality

March 23, 1989  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

CONDITIONS TO PERMIT TO CONSTRUCT #88-547

1. The applicant must obtain an NPDES discharge permit from the Wyoming Department of Environmental Quality before it may discharge any effluent from the lagoon system.

WK/nc



MIKE SULLIVAN  
GOVERNOR

## Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration  
(307) 777-7937

Air Quality Division  
(307) 777-7391

Land Quality Division  
(307) 777-7756

Solid Waste Management Program  
(307) 777-7752

Water Quality Division  
(307) 777-7781

May 9, 1989

Mr. M. Hummel  
Colorado Interstate Gas Company  
P. O. Box 1087  
Colorado Springs, CO 80944

RE: Rawlins Gasoline Plant Evaporation Pond Permit to Construct 88-547

Dear Mr. Hummel:

I have reviewed the revised drawings of the above referenced project. The drawings indicate that the inlet piping will be constructed so as to discharge into the pond at an elevation one foot above the high water level rather than at the bottom of the pond. This change is requested because it is felt that since the pond is only two feet deep, to place the pipe on the pond bottom may result in freezing related difficulties. Although the new location exposes the pipe, electrical heat trace and insulation will be used to keep the pipe from freezing.

This is a minor change and thus it can be constructed under the existing permit to construct 88-547. I am enclosing to sets of drawings authorizing the changes. To prevent confusion in the future, please keep these drawings attached to the previously approved material.

Sincerely,

Wally Koch, P. E.  
Southeast District Supervisor  
Water Quality Division

WK/mad

**CONVERSATION**

NAME Steve Hummel DATE 12 June 89

COMPANY CIG BB-547

ADDRESS \_\_\_\_\_

PHONE NO. \_\_\_\_\_

TOPIC: \_\_\_\_\_

C O N V E R S A T I O N

*Finishcopy Evap pond  
at Rawlins Plant  
ahead of sites schedule*

SIGNATURE \_\_\_\_\_

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

PERMIT NO. 88-548  
(See Condition)

OSAGE WATER SYSTEM TEMPORARY CHLORINATOR  
(Name of Facility)

This permit hereby authorizes the applicant (name and address):

Black Hills Power & Light

3363 Highway 16

Osage, Wyoming 82723

to construct, install or modify a temporary potable water chlorination facility according to the procedures and conditions of the application No. 88-548. The facility is located in Sections 9, 15 & 16, T.46N., R.63W., in the County of Weston, in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

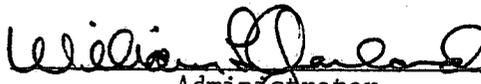
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

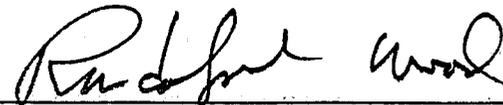
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801; telephone, 672-6457.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations,

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

1-6-89

\_\_\_\_\_  
Date of Issuance

This permit does not supersede the requirements for obtaining any permit from local agencies.

CONDITION

1. This facility is a temporary installation. A permanent chlorination facility, meeting the criteria of Chapter XII of the Water Quality Rules and Regulations shall be installed within one year of the date of issuance of this permit.

xc: Steven M. Bruce  
McDill Engineering  
805 4-J Road  
Gillette, Wyoming 82716

16



THE STATE OF WYOMING



MIKE SULLIVAN  
GOVERNOR

## Department of Environmental Quality

Herschler Building • 122 West 25th Street • Cheyenne, Wyoming 82002

Administration  
(307) 777-7937

Air Quality Division  
(307) 777-7391

Land Quality Division  
(307) 777-7756

Solid Waste Management Program  
(307) 777-7752

Water Quality Division  
(307) 777-7781

April 26, 1989

The Honorable Dorse Miller  
Mayor, City of Cody  
1338 Rumsey Avenue  
Cody, WY 82414

RE: City of Cody, Wyoming C560139, DEQ/WQD Ref. No. 88-549, Approval of Plans and Specifications

Dear Mayor Miller:

The plans and specifications for the construction of Wastewater Treatment Laboratory Addition for the referenced project have been reviewed by the State of Wyoming Department of Environmental Quality. This office hereby approves the plans and specifications and is enclosing a permit to construct. This permit does not supercede the requirements for obtaining any permit from local or state agencies.

The procedure for submission and approval of modifications to the approved plans and specifications is the same as for the original set; i.e., five copies of any proposed modifications, together with an explanation of the reasons therefore should be forwarded to us. Unauthorized modifications of approved sets of plans and specifications may result in suspension of federal participation in the project.

We are sending the approved plans and specifications for the referenced project which must be kept available at all times so that personnel from this office may have access to them during inspection activities.

This is confirmation of our verbal authorization for the project to be advertised and bids opened. You are requested to furnish this office with the date this project is advertised and the date on which bids will be opened as soon as possible. You are reminded to complete the enclosed checklist and associated documentation when bids are opened.

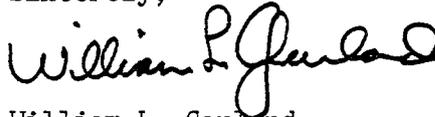
The following points should be brought to your attention at this time:

1. Contracts may not be awarded until authorization has been given by the Department of Environmental Quality.
2. Prior DEQ approval is required for rejection of bids on any contract on this project.

3. Current wage rates must be in the specifications prior to bid opening.
4. Bidders must submit with their bid a signed statement as to whether they have previously performed work subject to the President's Executive Order Number 11246.
5. Contact EPA if any questions arise concerning MBE/WBE utilization on this project.

Following approval of the enclosed checklist and associated documentation by the State of Wyoming Department of Environmental Quality, you will be notified that the construction contract may be awarded.

Sincerely,



William L. Garland  
Administrator  
Water Quality Division

WLG/SS/mad

cc: EPA, Region VIII  
Roger Jacobson, Engineering Associates  
Grant File

PERMIT TO CONSTRUCT

PERMIT NO. 88-549

X New  
Renewal  
Modified

City of Cody Wastewater Treatment Laboratory Addition

This permit hereby authorizes the applicant:

City of Cody  
1338 Rumsey Avenue  
Cody, Wyoming 82414

to construct, install or modify wastewater treatment laboratory according to the procedures and conditions of the application number 88-549. The facility is located in S39, T53N, R101W in the county of Park, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William J. Jule  
Administrator  
Water Quality Division

G. Alan Edwards  
Director  
Department of Environmental Quality

May 1, 1989  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

mad

PERMIT TO CONSTRUCT

PERMIT NO. 88-550

X New  
Renewal  
Modified

R.L. Sherrard Water Treatment Plant, Filter Rebuild

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities  
P. O. Box 1469  
Cheyenne, WY 82003

to construct, install or modify new filter media according to the procedures and conditions of the application number 88-550. The facility is located in S31, T14N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the applicant's engineer's design are the responsibility of the applicant, owner, or operator.

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the permitted facility, when constructed will meet applicable discharge permit conditions or other effluent or operational requirements.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way guarantee the performance of, the permittee in the exercise of its activities allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:

William J. Gula  
Administrator  
Water Quality Division

L. Alan Edwards  
Director  
Department of Environmental Quality

January 24, 1989  
Date of Issuance

This permit does not supercede the requirements for obtaining any permit from local agencies.

WDK/mad

cc: Paul O'Leary