

85-351RR



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 25, 1985

Randy Fultz  
HNTB  
907 North Poplar Street, Suite 250  
Casper, WY 82601

RE: Hogadon Ski Area - Wastewater O & M Manual (Construction Permit Numbers 84-298R and 85-351RR)

Dear Randy:

The operation and maintenance manual for the Hogadon Ski Area's wastewater treatment facilities has been submitted in accordance with the conditions of the permits to construct 84-298RR and 85-351RR. The Water Quality Division has reviewed the manual and determined that it meets the requirements of the Water Quality Division Rules and Regulations, Chapter XI, except for the following comments:

1. Page 2-6 and 3-11. The debris from the inlet basket screen must be disposed of properly. This could be disposed of at the landfill along with the other garbage collected at the ski area.
2. Page 4-1. The manual states that BOD tests should be performed in the field. This is incorrect as the tests are performed in the laboratory. Did you mean a dissolved oxygen measurement?
3. Page 4-1. The second sentence only refers to effluent samples whereas you are desiring that both influent and effluent samples be taken. This should be clarified that two samples are necessary and should be run for BOD and TSS.

Once these three items are corrected, sufficient final copies of the manual should be supplied to the owner for their efficient and effective operation of the new wastewater facility. Please call if you have any questions.

Sincerely,

Thomas S. Norman  
Water Quality Engineer

TSN/nc

cc: Larry Harms, Superintendent, Parks Department  
O&M File  
Permit File

8/28/85  
JRW

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-351RR  
SEE CONDITION ON BACK  
MA 14542

Hogodon Ski Area Wastewater Treatment Facility  
(Name of Facility)

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

Casper Parks Dept.  
c/o Larry Harms, Director  
1715 E. 14th  
Casper, WY 82601

to construct, install, or modify a municipal subsurface wastewater treatment and disposal system facility according to the procedures and conditions of the application No. 85-351RR. The facility is located in Section 17, T32N, R79W in the County of Natrona, 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.

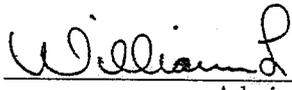
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

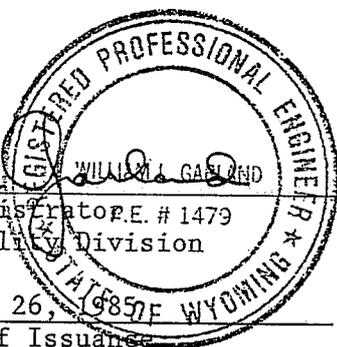
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

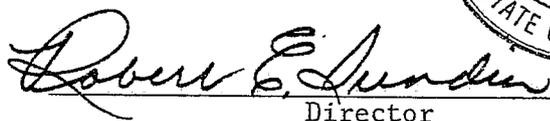
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

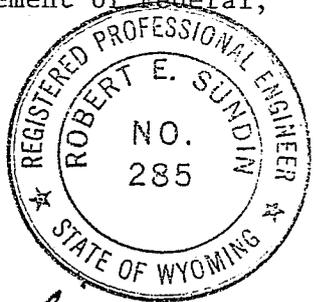
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
WILLIAM L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
August 26, 1985  
Date of Issuance



  
\_\_\_\_\_  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality



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

Condition to Permit to Construct

The permittee shall notify Nelson Frissell, M.D, Natrona County Health Department, 1200 East 3rd, Casper, WY 82601-2990, phone 235-9316, of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.

cc: Rany L. Fultz  
HNTB  
907 North Poplar Street, Suite 250  
Casper, WY 82601

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Hogadon Ski Area Wastewater Treatment Facilities, Natrona Co.

ARCHITECT OR ENGINEER: Randy L. Fultz, HNTB  
P.O. Box 3478, Casper, WY 82602

APPLICANT: Larry Harms, Superintendent of Parks Dept.  
1715 E. 4th, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 85-351 Ref. No. 84-298

REVIEWING ENGINEER: *Chris G. Norman*  
Christian G. Norman and Thomas S. Norman

DATE OF REVIEW: June 28, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. Design Alternatives

1. Is the ski area agreeing to install the water saver devices?
2. Evaporation pond. The pond would not have to be lined to any greater extent that what the drainfield is protected.
3. Mound system. I do not see a 3-4 foot mound as any significant 'hill' especially with the 4:1 side slopes.
4. Soil absorption system
  - a. How will you determine that the fill sand will be within the 1 to 5 minute/inch percolation rate for sizing purposes.
  - b. Our regulations require an application rate 0.8 gpd/s.f. for the above mentioned percolation rates. We do allow the sidewalls below the dosing pipe to be included in the infiltration area. However, with the high quality influent, the 1.0 gpd/sf may be acceptable.
  - c. The distribution network must not exceed 10 foot center-to-center.
  - d. The 100 gpm pump rate seems over-sized for this application. There is not any advantage to dosing the bed at this high rate.
  - e. I suggest a closer spacing of the distribution holes than the 7 foot suggested.
  - f. The force main must be designed not to freeze.
  - g. A replacement absorption area must be shown.

B. Application Requirements

1. An application for a permit to construct should accompany the submittal.
2. The plans and specifications were not signed or sealed by a Wyoming Professional Engineer.
3. Provide a detailed cross section of the proposed leachfield.
4. Three sets of drawings and specifications are required.
5. Show the profile of the four (4) inch force mains.
6. Show detail of lift station with specification on pumps, pipe, alarms, etc.
8. Surface drainage must be kept away from bed.
9. Traffic must be kept away from the bed.

7-12



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

*MA 14592*

July 10, 1985

Mr. William R. Eby  
Vice President  
Eby Mine Services, Inc.  
P.O. Box 470  
Brighton, CO 80601

RE: Permit GPC 85-352 Grouting of Abandoned Mine Voids in Rock Springs,  
Sweetwater County, Wyoming

Dear Mr. Eby:

Enclosed are two copies of permit GPC 85-352, authorization to commence injection of grout related to the Rock Springs Downtown Project 405Q. Please note that you are to notify this office 48 hours before injection is to commence (see item C., Authorized Operations).

Also enclosed are copies of Form GPC 7. A copy of the form should accompany any written report required by the permit. You may reproduce the form if you wish.

Note Item G., Requirements for Monitoring the Discharge. A written report should be submitted to this office within 30 days of completion of the project.

Please contact this office if you have any questions concerning the permit or this letter.

Sincerely,

William L. Garland  
Administrator

WLG/KL/nc  
Enclosures

cc: A. J. Mancini, Groundwater Control Supervisor  
Stan Barnard, IQD, AML  
Jack Bedessem, WQD, Lander

MA 14542

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

(X ) New  
( ) Modified

Permit Number:

GPC 85-352  
CLASS V

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),

Eby Mine Services, Inc.  
William R. Eby, Vice President  
P.O. Box 470  
Brighton, CO 80601

is authorized to operate

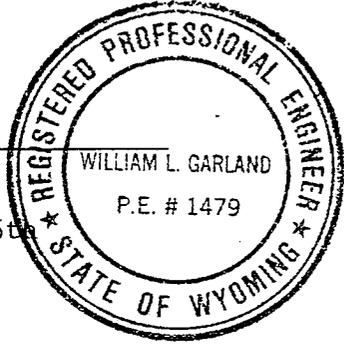
injection wells for the purpose of grouting of underground mine voids in the City of Rock Springs, Sweetwater County, Wyoming. The back-filling is associated with Wyoming Department of Environmental Quality Land Quality Division Abandoned Mine Lands, Rock Springs Downtown Project 405Q

according to procedures and conditions of the application GPC 85-352 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

*William L. Garland*

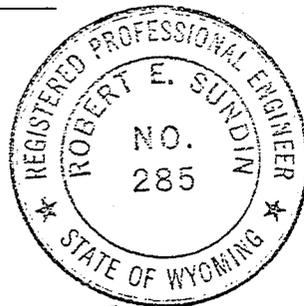
Administrator  
Water Quality Division  
Herschler Building, 122 W. 25th  
Cheyenne, WY 82002  
Phone: (307) 777-7781



*July 10, 1985*  
Date

*Robert E. Sundin*

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



*July 10, 1985*  
Date

A. Discharge (Injection) Zone and Area of Review

Injection is authorized into mine voids and the broken ground above the No. 2 coal seam of the Rock Springs Formation of the Mesaverde Group through open injection wells (60-185 feet deep depending on surface topography and the configuration of the mine voids encountered). Injection of grout into any other formation is prohibited.

This permit does not authorize the discharge of any waste into the wells or to the surface, in violation of any other issued or required permit.

The area of review encompasses the N1/2 Section 35 and the S1/2 Section 26, T19N, R105W in Sweetwater County.

B. Groundwater Classification

Groundwater in the injection zone is Class IV. This classification is based on a water quality analysis submitted with the application under the state classification system contained in Water Quality Division Rules and Regulations, Chapter VIII.

C. Authorized Operations

The permittee is authorized to inject a grout mixture comprised of 2800 psi sand, cement, and water into the flooded and dry coal mine voids within the area of review in the Rock Springs Formation. Injection will be through open well casings with no perforations, with the wells completed in the Rock Springs formation mine voids.

A maximum of 40 boreholes will be drilled on 25 foot centers, 4 to 8 feet from the curb on North Front Street in Rock Springs. All boreholes will be cased with 6-5/8 inch O.D. mild steel, grouted to the surface.

The proposed injection rate is anticipated to be 55 tons per hour. The approximate volume of fill to be placed is 500 cubic yards of grout mixture.

Pressure at the injection hole will average 0-15 psi. Pressure will be monitored to ensure that no excessive positive pressures are applied, and to provide an indication of the onset of complete filling.

No other use for or by the injection wells is authorized by this permit.

Permittee shall notify the Administrator or his representative 48 hours before injection is to start. Written notification shall be provided within 7 days after injection commences of the date and time of commencement.

Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. The 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.

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 have gauges to monitor injection pressure at the fill hole. There will be two pump lines laid to two separate boreholes with a diverter valve between the lines. As one borehole is topped off with grout, the grout will be diverted to the next borehole. The grouting procedure will commence directly behind the drilling procedure. Some of the boreholes will be used as access for an underground video inspection camera to monitor the extent of migration of the grout.

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 determine when positive pressure buildup is occurring in the injected slurry.

A final report on the project shall be submitted to the Water Quality Division within 30 days of completion of the project. This report should include:

1. A tabulation of all boreholes completed, including total depth and abandonment procedures.
2. The total volume of grout injected.
3. Any unanticipated conditions encountered.

Note the "Signatories Requirement" of Section Q of this permit.

The report should be addressed to:

Department of Environmental Quality  
Water Quality Division  
Groundwater Section  
Herschler Building, 4 West, 122 West 25th Street  
Cheyenne, WY 82001

The report shall be accompanied by a completed Form GPC 7.

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 elsewhere in the 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.

Item I.10 is not applicable to this permit.

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 prior to issuance of this permit is not required.

Existing regulations do not require public notice of the permit review and 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:

This section is not applicable for permit issuance for this discharge.

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:

The Water Quality Division requires at a minimum that the injection zone be permanently isolated from overlying and underlying aquifers; that interaquifer communication be permanently prohibited; and that the wells be permanently secured against the injection or disposal of anything after abandonment.

All wells will be plugged and abandoned upon completion of the project according to standards included in Chapter XI, Part G of the Water Quality Division Rules and Regulations. A final report documenting plugging and abandonment will be submitted within 30 days of completion of the project.

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.

Not applicable.

O. Special measures the Director finds necessary:

The operations authorized by this permit must commence within one year of permit issuance date, or the permit is 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.

7-8  
JF

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 85-353R

MA 14542

"K" Street and Bryan Stock Trail  
(Name of Facility)

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

Wyoming Highway Department

5300 Bishop Blvd.

Cheyenne, WY 82002-9019

to construct, install, or modify a water distribution facility according to the procedures and conditions of the application No. 85-353R. The facility is located in Section 3, T33N, R79W in the County of Natrona, 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.

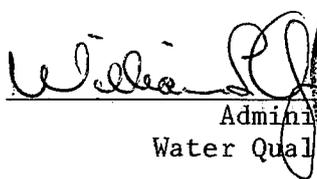
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

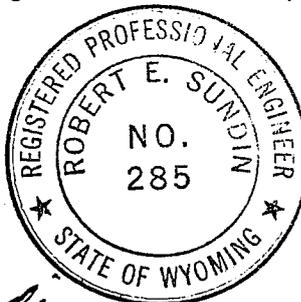
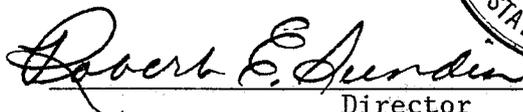
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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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:

  
  
 WILLIAM L. GARLAND  
 Administrator P.E. # 1479  
 Water Quality Division  
 July 2, 1985  
 Date of Issuance

  
  
 Director  
 Dept. of Environmental Quality

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

cc: Rick Johnston  
 Gust & Johnston  
 2232 Del Range #203  
 Cheyenne, WY 82001

6-27

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

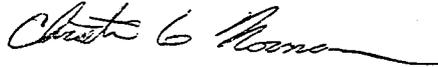
PROJECT: "K" Street and Bryan Stock Trail, Natrona Co.

ARCHITECT OR ENGINEER: Rick Johnston, Gust & Johnston  
2222 Del Range, Suite 203, Cheyenne, WY 82009

APPLICANT: WY Highway Dept., ATTN: Gary Brown  
5300 Bishop Blvd., Cheyenne, WY 82002-9019

WATER QUALITY DIVISION REFERENCE NUMBER: 85-353

REVIEWING ENGINEER: Christian G. Norman



DATE OF REVIEW: June 26, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Identify the proper range in the legal description.
2. The 48 inch sanitary sewer should be shown in the profile. Special provisions may have to be made for the water main if a horizontal separation of 10 feet from the sewer or a vertical separation of 1.5 feet from the sewer cannot be maintained.
3. Show the detail of the water main and sanitary sewer crossing at station 10+84.

CGN/nc

10-7 JJ

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-354R

MA 14542

LaBarge 1985 Water & Sewer Extension, Phase I  
(Name of Facility)

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

Town of LaBarge  
P.O. Box 327  
LaBarge, WY 83123

to construct, install, or modify a extend 8" sanitary sewer line 2,200 feet and  
6" water line 790 feet with appurtenances

facility according to the procedures and conditions of the  
application No. 85-354R. The facility is located in

Sec. 6, T26N, R112W  
in the County of Lincoln,

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 dur-

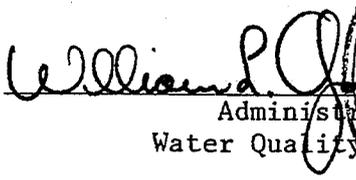
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

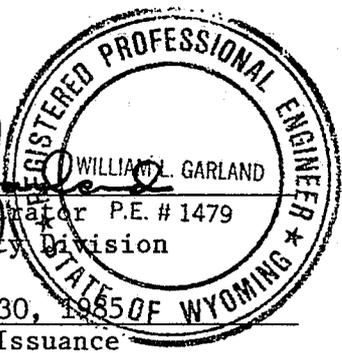
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

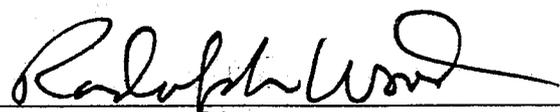
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
September 30, 1985  
Date of Issuance



  
Director  
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: LaBarge 1985 Sewer Line Extension - Phase I

ENGINEER: Dale Crank  
Johnson, Fermelia & Crank, Inc.  
P.O. Box 631  
Kemmerer, WY 83101

OWNER: Town of LaBarge  
P.O. Box 327  
LaBarge, WY 83123

WATER QUALITY DIVISION REFERENCE NUMBER: 85-354

REVIEWING ENGINEER: Bill Locke *BL*

DATE OF REVIEW: July 16, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. Several items need to be addressed before a permit to construct will be issued.

1. A letter from the Town of LaBarge is required stating that there is adequate capacity in the existing wastewater treatment facility to treat the wastewater from this expansion.

2. The existing water line at approximate station 0+10 should be plotted on the profile. Minimum vertical separation should be 1.5 feet.

3. A cross section drawing of the sewer line bedding and trench is required.

4. An estimate of the amount of wastewater produced by this expansion should be included under part 4 of the application form.

5. Please submit revised plans and specifications in triplicate to this office for final review.

Should you have any questions or comments, please contact either Jack Bedessem or myself.

BL/jw

*ABC*



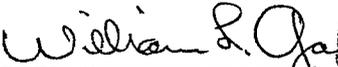
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

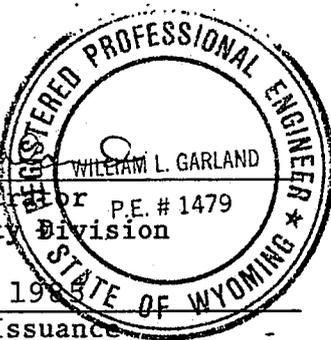
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

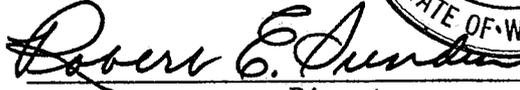
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
August 9, 1988  
\_\_\_\_\_  
Date of Issuance



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



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

\* CONDITION ON PERMIT \*

This permit is issued with the intent of providing an interim on-site wastewater treatment facility until such time that treatment is available through the City of Cody's wastewater system.

The facility authorized by this permit can be operated until the City's system is made available. At that time, the facility authorized by this permit must be abandoned and connection made to the City's system.

Returned to  
Rander  
7-15-85

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-355  
DATE SUBMITTED FOR REVIEW JULY 7, 1985  
NAME AND LOCATION OF FACILITY BIG BEAR TRAILER COURT  
SEPTIC SYSTEM (WEST)  
LOTS 73574, T52N, R102W  
PARK COUNTY, WYOMING

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Thomas R. Williams  
TITLE GROUNDWATER ENGINEERING ASSOCIATE E.I.T. #2242  
DATE 7/12/85

ACCEPTED FOR RECORD 7/12/85 gjm  
(Date) Groundwater Control Supervisor

MEMORANDUM

TO: Jeff Hermansky, Northwest District Water Quality Evaluator

FROM: Thomas R. Williams, Groundwater Engineering Associate TRN

DATE: July 12, 1985

SUBJECT: Groundwater Review of Permit to Construct Application Number 85-355 for the Big Bear Trailer Court Septic System in Cody, Wyoming

I have reviewed permit to construct application number 85-355 for the Big Bear Trailer Court septic system for consistency with current groundwater protection procedures and requirements. No groundwater information has been submitted, so it is not possible to evaluate if this septic system poses a potential threat of groundwater pollution. To complete a groundwater review, the documentation listed in Wyoming Water Quality Rules and Regulations, Chapter III, Section 15(b) needs to be submitted for review.

It is assumed that by replacing the failing septic system with a system that is designed to comply with Water Quality Division construction and installation requirements, the potential threat of groundwater pollution will not be any greater than with the septic system that is currently in use. However, the capacity for the soils around the failing septic system to effectively treat the sewage effluent has been severely reduced by the failure of the system.

The construction drawings submitted with the permit to construct application show the failing and the new septic system immediately adjacent to one another. The spacing between the two systems must be sufficient to insure that there is not a cumulative impact from the two systems with a resultant increase in the potential for groundwater pollution.

cc: Steve Gerber



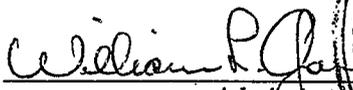
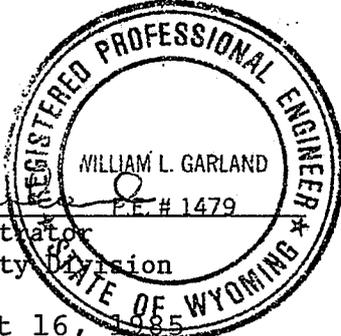
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

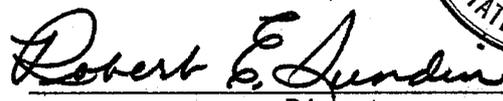
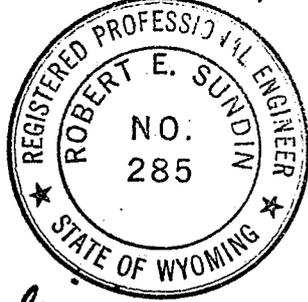
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


August 16, 1985  
\_\_\_\_\_  
Date of Issuance

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Layos Pit #2

ENGINEER: Kenneth L. Dorr  
William H. Smith & Associates  
P.O. Box 820  
Green River, WY 82935

OWNER: Layos, Inc.  
507 Smith St.  
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 85-356

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: July 12, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans has been completed. The following items must be addressed before a permit to construct can be issued:

1. The application for permit to construct must be signed by the owner/ applicant, not the engineer.
2. The note at the top right hand corner of the page states that the ponds will be developed to a depth of ten (10) feet. With a bottom elevation of 6,172.0 it is assumed that the elevation of the finished top of dike will be 6,182.0. Please confirm this.
3. Please provide the calculations to show how the pond capacities listed were developed.
4. A discussion of the quantity of wash water entering the ponds should be included. Estimates of the average and peak daily process water discharge to the ponds is also necessary.
5. In Detail "A" the freeboard is identified as two (2) feet. However, in Detail "B" the overflow ditch is shown to be 2'6". Please clarify the freeboard depth and how it relates to the depth of the overflow ditch.
6. Please submit revised plans and data in triplicate to this office.

If you have any questions and/or comments, please contact Jack Becessem or myself.

BL/jw

*AC*



ing 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, Wyoming 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.

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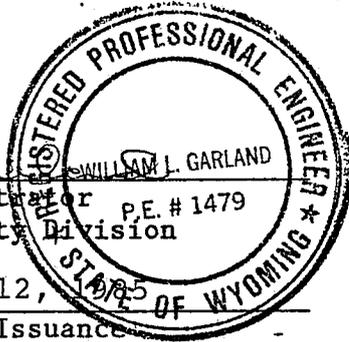
AUTHORIZED BY:



*William L. Garland*

WILLIAM L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division

August 12, 1985  
Date of Issuance



*Robert E. Sundin*

Director  
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Cody Watermain Extension-Country Estates

ENGINEER: Graham, Dietz & Associates  
ATTN: Darvin Dietz  
P.O. Box 338  
Cody, WY 82414

OWNER: City of Cody  
1338 Runsey Avenue  
Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 85-357

REVIEWING ENGINEER: Steven P. Gerber *SPG*

DATE OF REVIEW: July 18, 1985

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

1. Verify that the system will provide water at a minimum pressure of 20 psi under all conditions of flow and 35 psi under normal flow conditions.

2. Valves shall be provided on watermains so that inconvenience and sanitary hazards will be minimized during repairs. Valves shall be located at not more than 1 block or 800 foot intervals. Provide valving in the watermain at the corners of 36th Street and Apache Road and 36th Street and Cherokee Road. At least two valves should be located at the corner of 36th Street and Apache Road.

Submit the requested information and revised drawing in triplicate. If you have any questions do not hesitate to contact me.

SG/jw

copy: Plans (3)  
File (2)

*ABC*

9-9 J2

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-358  
 SEE CONDITIONS ATTACHED  
 MA 14542

Spence Dome Unit  
 (Name of Facility)

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

Koch Production Ltd.

P.O. Box 850

Worland, WY 82401

to construct, install, or modify a oil storage tank facility according to the procedures and conditions of the application No. 85-358. The facility is located in Sections 4, 5, 8, and 9, T54N, R94W in the County of Big Horn, 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 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.

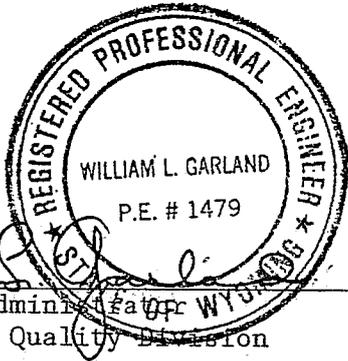
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 777-7781.

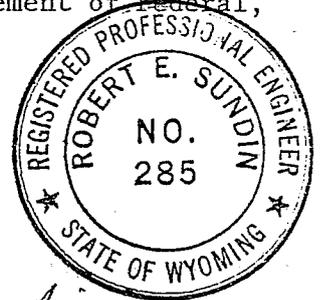
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any 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:



Administrative Director  
Water Quality Division



Director  
Dept. of Environmental Quality

August 30, 1985  
Date of Issuance

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

This permit authorizes you to dispose of 2,730 gallons of waste oil on the surrounding 3.5 miles of road, comprising 8.5 acres, a total liquid application of <0.10 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-358

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. Waste oil will be incorporated into the roads.
5. Annual analyses of waste oil similar to the original analysis will be submitted prior to application to roads.

9-9 125

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-359  
 SEE CONDITIONS ATTACHED  
 MA 14542

Middle Dome Field (Ruth A. Rice Lease)  
 (Name of Facility)

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

Koch Production Ltd.

P.O. Box 850

Worland, WY 82401

to construct, install, or modify a oil storage tank facility according to the procedures and conditions of the application No. 85-359. The facility is located in NE1/4 NE1/4, NW1/4 NE1/4, and SE1/4 NE1/4 Section 22, T48N, R90W in the County of Washakie, 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 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, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 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 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. Garland*  
\_\_\_\_\_  
Administrator  
Water Quality Division



*Robert E. Sundin*  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

August 30, 1985  
\_\_\_\_\_  
Date of Issuance

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

This permit authorizes you to dispose of 2,730 gallons of waste oil on the surrounding 3.5 miles of road, comprising 8.5 acres, a total liquid application of <0.10 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-359

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. Waste oil will be incorporated into the roads.
5. Annual analyses of waste oil similar to the original analysis will be submitted prior to application to roads.

9-9  
JFR

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-360  
SEE CONDITIONS ATTACHED  
MA 14542

Middle Dome Field (Cook Lease)  
(Name of Facility)

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

Koch Production Ltd.

P.O. Box 850

Worland, WY 82401

to construct, install, or modify a oil storage tank facility according to the procedures and conditions of the application No. 85-360. The facility is located in SW1/4 SE1/4 Section 15, T48N, R90W in the County of Washakie, 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 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.

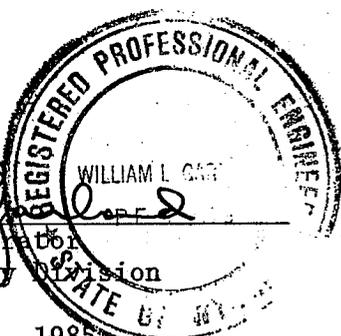
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 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 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. Gage*  
\_\_\_\_\_  
Administrator  
Water Quality Division  
STATE OF WYOMING  
August 30, 1985  
Date of Issuance

  
*Robert E. Sundin*  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

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

This permit authorizes you to dispose of 2,730 gallons of waste oil on the surrounding 3.5 miles of road, comprising 8.5 acres, a total liquid application of <0.10 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-360

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. Waste oil will be incorporated into the roads.
5. Annual analyses of waste oil similar to the original analysis will be submitted prior to application to roads.

9-9  
JR

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-361  
 SEE CONDITIONS ATTACHED  
 MA 14542

Nowood Field (Nowood 'A' and 'D' Leases)  
 (Name of Facility)

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

Koch Production Ltd.

P.O. Box 850

Worland, WY 82401

to construct, install, or modify a oil storage tank facility according to the procedures and conditions of the application No. 85-361. The facility is located in NW1/4 NE1/4 and SE1/4 NE1/4 Section 8, T48N, R90W in the County of Washakie, 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 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.

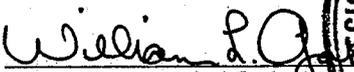
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

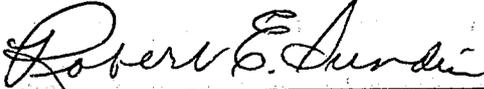
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 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 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. GARLAND  
P.E. # 1479  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
Administrator  
Water Quality Division  
August 30, 1988  
Date of Issuance

  
\_\_\_\_\_  
ROBERT E. SUNDIN  
NO. 285  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
Director  
Dept. of Environmental Quality

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

This permit authorizes you to dispose of 2,730 gallons of waste oil on the surrounding 3.5 miles of road, comprising 8.5 acres, a total liquid application of <0.10 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-361

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. Waste oil will be incorporated into the roads.
5. Annual analyses of waste oil similar to the original analysis will be submitted prior to application to roads.

8/28  
MC  
7

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 85-362R

MA 14542

NUMEX McGraw Flats Reservoir & Settling Ponds  
(Name of Facility)

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

NUMEX

P.O. Box 474

Lander, WY 82520

to construct, install, or modify a reservoir and settling ponds for  
mining operation

facility according to the procedures and conditions of the

application No. 85-362R. The facility is located in

Sec. 19, T30N, R97W

in the County of Fremont,

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 dur-

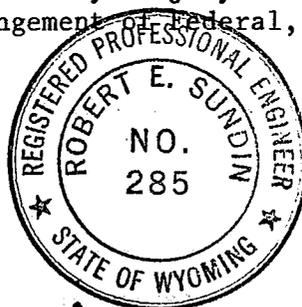
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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, Wyoming 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 L. Garland*  
Adminisrator, P.E. # 1479  
Water Quality Division  
August 23, 1985  
Date of Issuance



*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: NUMEX McGraw Flats Reservoir and Settling Ponds

ENGINEER: C.E. Spurlock & Associates  
P.O. Box 0  
Lander, WY 82520

OWNER: NUMEX  
P.O. Box 474  
Lander, WY 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 85-362

REVIEWING ENGINEER: Steven P. Gerber *SPG*

DATE OF REVIEW: July 18, 1985

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

1. Extraneous surface water shall be excluded from entering the settling ponds or entering the channel from the mine.
2. Indicate maximum high water level. Settling ponds must have at least two feet of freeboard.
3. Specify water quality from mining operation. Briefly describe mining operation. Include frequency and quantity of chemicals to be added if any.
4. Provide a brief description of how settling ponds are to be operated. If cell 2 is inactive explain why flow from mine empties into cell 2.
5. Estimate expected life of the settling ponds.

Submit the requested information in triplicate. If you have any questions do not hesitate to contact me.

SG/jw  
copy: Plans (3)  
File (2)

*ABC*



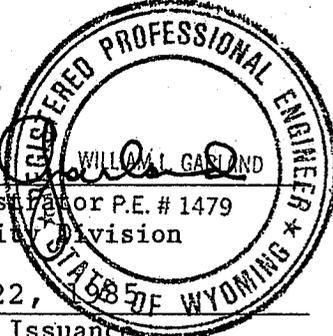
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

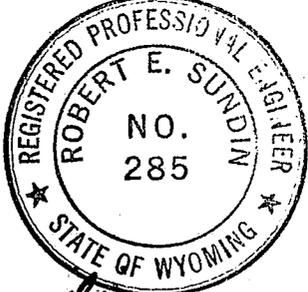
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 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 L. Gasland*  
Administrator P.E. # 1479  
Water Quality Division  
August 22, 1985  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Eagle Concrete-Dodge Rim Pit

ENGINEER: Kenneth L. Dorr  
William H. Smith & Associates  
P.O. Box 820  
Green River, WY 82935

OWNER: Eagle Concrete Products, Inc.  
P.O. Box 6077  
Rock Springs, WY 82901-6077

WATER QUALITY DIVISION REFERENCE NUMBER: 85-363

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: July 19, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans has been completed. Before a permit to construct will be issued, the following items must be addressed:

1. A discussion of the quantity of washwater entering the ponds should be included. Estimates of the average and peak daily process water discharged to the ponds would suffice.
2. There is a contradiction between the typical cross section of the ditch between the settling ponds and the cross section of a typical settling pond. Is the depth of the ditch 2' 0" or 2' 6". This will effect the total working capacity volume.
3. Please submit revised plans and data in triplicate to this office.

If you have any questions or comments, please contact either Jack Bedessem or myself.

BL/jw

*ABC*

*nomu*

THE STATE OF WYOMING



ED HERSCHLER  
GOVERNOR

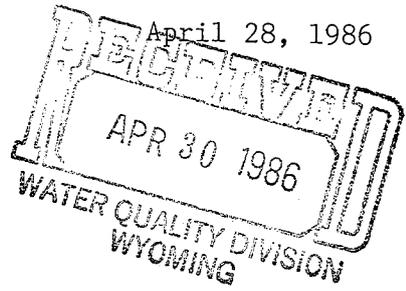
*Department of Environmental Quality  
Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

April 28, 1986



Inberg-Miller Engineers  
ATTN: Thomas E. Axthelm  
124 E. Main  
Riverton, WY 82501

RE: Superior Phase II Water Improvements Project, WQD No. 85-364R

Dear Mr. Axthelm:

The review of Field Change Order No. 3 has been completed by this office and found to be in compliance with the minimum design standard for the State of Wyoming. This item will therefore be included with the permitted plans as approved Change Order No. 3. Please retain a copy of this letter in your file as proof of approval by this office.

Sincerely,

*Bill Locke*

Bill Locke, P.E.  
Water Quality Engineer

BL/jw

SUBJECT

PHASE II WATER

PROJECT RE-3247

PAGE

1/1

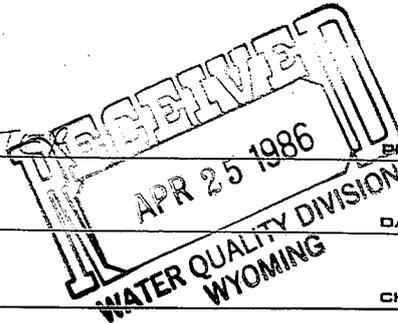
CLIENT

SUPERIOR

DATE 4-23-86

BY

TEA



CHECKED

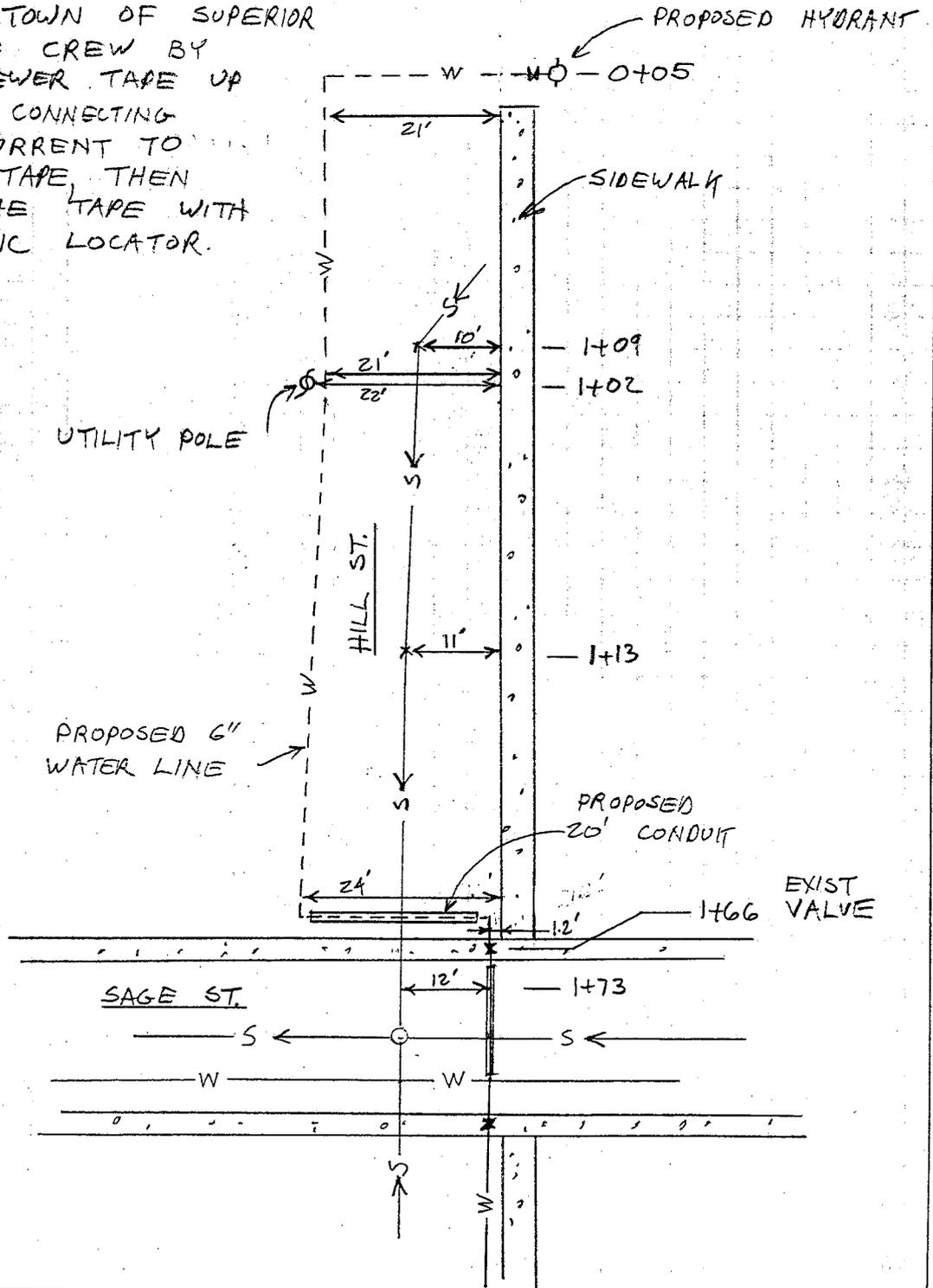
BY

PROPOSED WATER LINE LOCATION REVISION

NOTE: SEWER LINE LOCATIONS MARKED BY TOWN OF SUPERIOR MAINTENANCE CREW BY RUNNING A SEWER TAPE UP THE SEWER, CONNECTING ELECTRIC CURRENT TO THE SEWER TAPE, THEN LOCATING THE TAPE WITH AN ELECTRONIC LOCATOR.



SCALE: 1  
 N-S 1"=30'  
 E-W 1"=20'



*Norma*



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

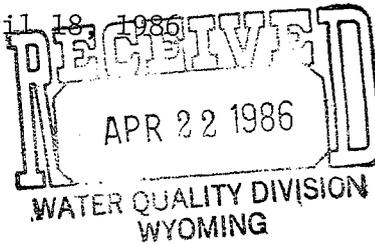
*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

April 18, 1986



Inberg-Miller Engineers  
ATTN: Thomas E. Axthelm  
124 E. Main  
Riverton, WY 82501

RE: Superior Phase II Water Improvements Project, WQD No. 85-364R

Dear Mr. Axthelm:

The review of Field Change Orders No. 1 and 2 has been completed by this office and the changes found to be in compliance with the minimum design standard for the State of Wyoming. These two items will therefore be included with the permitted plans as approved Change Orders No. 1 and 2. Please retain a copy of this letter in your file as proof of approval by this office.

Sincerely,

Bill Locke, P.E.  
Water Quality Engineer

BL/jw



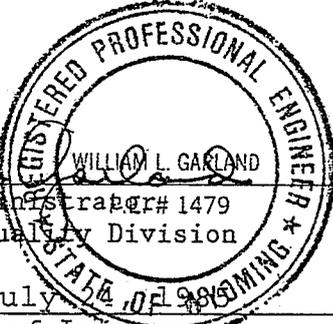
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

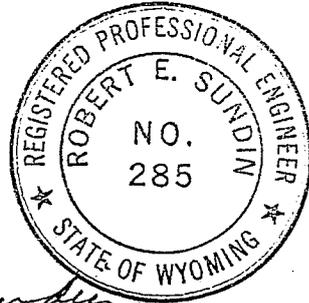
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 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 L. Garland*  
WILLIAM L. GARLAND  
Administrator # 1479  
Water Quality Division  
July 1985  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Superior Water Improvements - Phase II

ENGINEER: Thomas E. Axthelm  
Inberg-Miller Engineers  
124 E. Main  
Riverton, WY 82501

OWNER: Town of Superior  
Superior, WY 82945

WATER QUALITY DIVISION REFERENCE NUMBER: 85-364

REVIEWING ENGINEER: Bill Locke *BL*

DATE OF REVIEW: July 16, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. The following items must be addressed before a permit to construct will be issued.

1. No application forms accompanied the plans and specifications. Three applications signed by the owner/applicant are required.
2. Sheet 2 of 5, approximate STA/T82W. There appears to be a conflict between the waterline and sanitary sewer line in the profile view. Both lines appear to be nearly at the same location and elevation. This should be addressed with a note added to the plans.
3. There appears to be a high area in the distribution system that may allow for air entrapment. A fire hydrant or air/vac valve located at approximate station 9+50W may be helpful.
4. Please provide revised plans and specifications in triplicate to this office for final review.

Should you have any questions or comments, please contact either Jack Bedessem or myself.

BL/jw

*ABC*

10-12-86



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Laramie Tie Plant #85-365  
FROM: Phil Pucel *Phil*  
DATE: August 8, 1986  
SUBJECT: Sundance Well Installation, phone call to Dave Stieb (CH2M Hill)

UPRR had previously committed to installing an additional Sundance well west of the Laramie River for the purpose of better defining vertical and horizontal gradients. The remedial action option recommended by CH2M Hill relies heavily on these gradients to contain contamination in the bedrock aquifers.

This well was integrated into the monitoring program for the reverse-gradient soil-bentonite wall, but has not yet been installed.

A portion of the west segment of the containment wall will pass through the creosote/oil in the Morrison. Further drilling was needed to more accurately define the extent of this contaminated area. During mobilization of this drilling rig, the Sundance well would be installed.

During a routine call to the Tie Plant to keep abreast of the activities, I learned that the well specifications were calling for an open interval of 100 feet. As with other wells on this site, this interval is too large to monitor a discrete interval without dilution. Subsequent phone calls were placed to Paul Kunkel, Keith Piontek and Dave Stieb (CH2M Hill). Keith Piontek pointed out that only one well was promised, so a cluster of wells monitoring discrete intervals would probably not be agreeable to UPRR. In another phone call to Dave Stieb at the Tie Plant, the rationale behind the well specifications were discussed. Dave Stieb said that he had not received specific directions on the open interval. He selected the 100-foot interval because the SWL would be an average for the entire thickness. In addition, bidding out a 100 foot open hole and then reducing the specs to a 50 foot hole was easier to arrange than bidding out a shorter interval and then trying to change the specs to a 100 foot hole.

The feasibility of a multiple completion was discussed at length. This type of completion would include a short (10') screen at the bottom of the Sundance, a bentonite seal, and grout up to the upper interval. Another 10' interval would be installed near the top of the formation.

Dave Stieb listed the problems with this option:

1. The two 3/4" PVC piezometers would crowd the planned 4 7/8" hole. There may be bridging above the upper interval.
2. It is difficult to terminate the PVC pipes within a 6" leeway in the surface casing. If the pipes are too high, it's difficult to cut them off. If they extend above the surface casing, then the well cap can't be used and the sole protection would consist of the locked cap on the above-ground protective casing.
3. A single plastic piezometer could be installed and sealed off in the lower Sundance. An open hole could be used to monitor the upper Sundance. In this situation, only the locked cap of the above-ground casing would provide protection.
4. Installing 2 plastic pipes with seals costs more.
5. Using a larger drill hole (8") would double the cost.
6. This type of construction would signify a change from all previous well construction specifications.
7. If water quality monitoring became necessary at this new well, the small diameter PVC pipe would make sampling considerably more difficult.

I mentioned that smaller open and screened intervals had been consistently recommended by the Water Quality Division, but CH2M Hill and the UPRR elected to use larger intervals. Larger intervals provide better information on horizontal aquifer characteristics, while smaller intervals provide better information on vertical gradients and contaminant distribution.

Dave Stieb preferred to use a 50 foot open hole interval in the top of the Sundance in correlation with a previously installed Sundance Well east of the river.

I recommended that he contact John Haggard for RCRA requirements. Upon satisfaction of RCRA considerations, I agreed that the 50' open hole at the top of the Sundance appeared appropriate for the circumstances.

PP/nc

cc: Dave Stieb, CH2M Hill  
Jake Strohman



THE STATE OF WYOMING

702  
3-3-86  
ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 3, 1986

UPRR  
1416 Dodge Street  
Omaha, NE 68179

RE: UPRR Permits to Construct Numbers 85-365RR, 85-545R and 85-546R

Gentlemen:

Enclosed are the permits to construct the water treatment system, the water management system, and the soil-bentonite cut-off wall. The construction of the facilities covered by these permits does not fulfill the requirements for the final remedial measures and is considered as an interim measure only. The recovery of free oil, in-situ treatment of soils and groundwater, the ultimate rehabilitation of the affected aquifers and/or the removal and destruction of all wastes are required by Wyoming law. Under the Litigation Suspension Agreement, final remedial measures will be established consistent with available technology and may even result in the development of new technologies. Proven technologies, such as the recovery of free oil, are expected to proceed as soon as practical. Subsequent measures such as enhanced recovery may require some effort in research and development. However, if these efforts afford no hope for a complete clean-up within a reasonable time-frame (2 years), then excavation, landfilling, and incineration will once again be considered as the final remedial measures.

Sincerely,

William L. Garland  
Administrator

WLG/PP/nc  
Enclosures

25

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 85-365RR  
SEE CONDITIONS ATTACHED

Union Pacific Tie Treating Plant Slurry Wall  
(Name of Facility)

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

Union Pacific Railroad

1416 Dodge Street

Omaha, NE 68179

to construct, install, or modify a soil-bentonite cut-off wall facility according to the procedures and conditions of the application No. 85-365RR. The facility is located in Section 5, T15N, R73W in the County of Albany, 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.

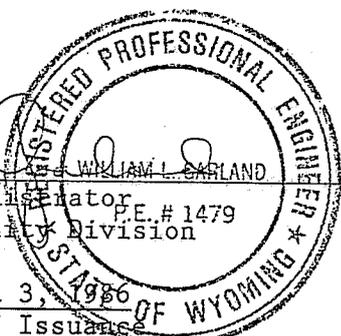
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

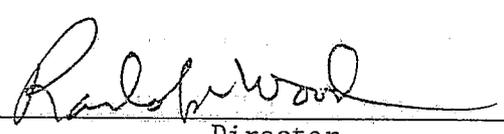
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any 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:

  
Adminisrator  
Water Quality Division  
March 3, 1986  
Date of Issuance



  
Director  
Dept. of Environmental Quality

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

Conditions to Permit to Construct #85-365RR

1. A draft O & M manual for the water treatment system, the water management system, the groundwater monitoring system and the soil-bentonite wall shall be submitted to DEQ before slurry wall construction is 50% complete and finalized when construction is 75% complete. The O & M manual shall be considered an operational condition of this permit.

The O & M manual at a minimum will include:

- a. Modifications to the monitoring system as discussed in the February 5, 1986 meeting with UPRR and CH2M Hill will be included in the O & M manual. These modifications include:
  - (1) The installation of two additional shallow piezometers along the western segment and near the northwest corner of the soil-bentonite wall.
  - (2) The addition of BR-19 into the water quality monitoring network.
  - (3) Contingency monitoring plans for the alluvial and bedrock aquifers in case of system upset or as warranted by evaluation of the static water level and water quality monitoring data.

A system upset includes:

- (a) Changes in the flow regime resulting in vertically downward gradients or outward alluvial gradients.
  - (b) The release of oil or dissolved contaminants into, through or beneath the wall.
  - (c) The migration of oil or dissolved contaminants in the bedrock.
  - (d) Plugging in the internal or external drain systems.
  - (e) Interrupted or discontinued operation of:
    - (i) the water treatment plant;
    - (ii) the sumps;
    - (iii) pumps used in the operation of the water management and water treatment systems.
  - (f) Flooding or heavy precipitation.
  - (g) Breakdown, washing out, breaching or any damage to the wall.
  - (h) The presence of oil or dissolved contaminants in the external drains.
- (4) A description of data reporting dates and system evaluation reporting dates.
- (5) A description of reporting formats, including maps and graphs.
- (6) Inspection for sheen in all alluvial wells along the western wall and in P-106 will be performed when static water levels are measured.

Unless shown to be redundant, further modifications to the Morrison monitoring plan will include monitoring of contaminant intrusion of the wall and monitoring of contaminant release from the isolation system. These monitoring points will be installed in close proximity to the wall. These modifications will be implemented within three months of completion of the soil-bentonite wall.

Modifications in any portion of the monitoring program will be made as necessary to assure that the water management system, the water treatment system, and the cut-off wall are performing satisfactorily.

- b. A complete description of groundwater, surface water and discharge point sampling protocol.
- c. Standard forms for the recording of all field notes related to routine sampling as well as unusual occurrences.
- d. A description of the schedule for all monitoring activities.
- e. A description of the proper procedures for recording, maintaining, interpreting, and reporting monitoring data.

- 
- f. Contingency plans for all system upsets. These plans include changes in monitoring schedules, chain of responsibility, Water Quality Division notification requirements, and emergency phone numbers.
  - g. Items on Attachment A.
2. The soil-bentonite cut-off wall shall be constructed using the Quality Control Program specified by the U.S. EPA, Region VIII.
  3. Construction and operation of the facilities covered by the enclosed permits does not relieve the Union Pacific Railroad of U.S. EPA requirements. U.S. EPA requirements may be more stringent or exceed those established by the Wyoming Department of Environmental Quality, Water Quality Division.
  4. Logs and completion details of all new wells, well development procedures, and well location maps must be submitted within 30 days after well installation.

ATTACHMENT A

O & M Manuals

1. Manual Introduction

- a. Manual user guide
- b. Table of contents
- c. Plant description and flow pattern
- d. Operation and managerial responsibilities

2. NPDES Permit Information

- a. Permit effluent requirements
- b. Reporting procedures for spills (Chapter IV, Wyoming Water Quality Rules and Regulations)
- c. Self-monitoring requirements
- d. Renewal date for permit

3. Description, Operation and Control of Wastewater Treatment Facilities

a. General plant operation

- (1) Unit/process description (to include individual design efficiencies)
- (2) Relationship to other units
- (3) Control procedures
- (4) Major equipment involved
- (5) Common operation problems

b. Specific plant operation

- (1) Normal operation (to include sludge management and ultimate disposal)
- (2) Alternate operation
- (3) Emergency operations and fail-safe procedures
- (4) Procedures for bypass of individual units

4. Laboratory Testing

- a. Purpose
- b. Sampling program
- c. Operator/laboratory references
- d. Daily operational control testing
- e. Interpretation of results
- f. Sample lab work sheets
- g. Quality assurance program

5. Records

- a. Daily operating records (log)
- b. Laboratory records
- c. Maintenance records
- d. Personnel records
- e. O & M costs records
- f. Annual report

6. Maintenance

- a. Why - importance
- b. Maintenance schedule for all equipment
- c. Storeroom/inventory system
- d. Housekeeping
- e. Tools and special equipment
- f. Lubrication schedules
- g. Warranty provisions

7. Safety

- a. General
- b. Sewer/lift station hazards
- c. Electrical hazards
- d. Mechanical equipment hazards

- e. Fire, explosions
- f. Health hazards
- g. Laboratory safety
- h. Safety references
- i. Emergency operating response program

8. Utilities

- a. General
- b. Electrical
- c. Telephone
- d. Natural gas
- e. Water
- f. Standby power operation

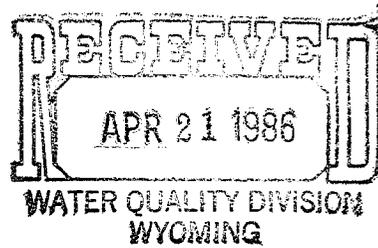
85-365



April 11, 1986

D15248.J1

Mr. Tom Norman  
Wyoming Department of  
Environmental Quality  
Water Quality Division  
Herschler Building, 4th Floor  
122 West 25th Streets  
Cheyenne, Wyoming 82002



Dear Mr. Norman:

Enclosed are three cover sheets and one complete set of construction drawings and specifications for the cut-off wall construction at the Union Pacific Tie Plant in Laramie.

Please return cover sheets to me when your review is complete.

Very truly yours,

*Dale J Rowlinson for*  
Paul D. Kunkel  
Assistant Project Manager

*file w/  
project  
TKN*

DE/UPRR9/012ra  
Enclosure  
cc: S.J. McLaughlin/UPRR  
R.C. Kuhn/UPRR  
Gary Hill/UPRR



THE STATE OF WYOMING

85-365R

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: File: Laramie Tie Plant

FROM: Phil Pucel *Phil*

DATE: December 16, 1985

SUBJECT: December 4, 1985 meeting with CH2M Hill regarding the November 15, 1985 review of plans and specifications for the Slurry Wall (#85-365R) and the Water Management System (#85-546)

Introduction

This meeting was convened at the EPA Region VIII offices pursuant to a request by Mr. Bob Kuhn of the Union Pacific Railroad. The attendees were Rick Marotte, Paul Kunkel, and Tom Sayle of CH2M Hill and me, representing DEQ/WQD.

Water Management System

Several comments by Chris Norman of DEQ pertained to abandoned water lines and the fact that they were not shown on the plans. See number 1, 3, and 4 below.

1. On sheet WM-5 a 6 inch water line is identified. This line is not shown on the plan sheet. Is this line to be abandoned?
2. How are the pumps controlled in pump station A?
3. At STA D33+00 it is shown that an 8 inch CIP is to be abandoned. This is not shown on the plan sheet.
4. How are the water lines to be abandoned?

Apparently the UPRR decided to maintain these lines rather than abandon them. Prior to construction of the soil-bentonite wall, the lines will be capped off or re-routed through hoses on the ground surface. After construction of the wall, trenches will be re-excavated to allow replacement of the lines through the wall. Sleeves will be used to prevent seepage along the lines through the wall. This process will be described in greater detail in the next submittal.

5. The following comments relate to both the Water Management System (WQD reference number 85-546) and the soil-bentonite cutoff wall (WQD reference number 85-365R) and are included in both reviews.

- a. Abandonment and construction of replacement wells should be documented and permitted according to Chapter XI of the Water Quality Rules and Regulations. Wells which were abandoned during the Laramie River relocation were not documented according to Chapter XI.

As referenced in comment 5.a. above, the notification procedure for well abandonment has not been followed. Earlier in the year, UPRR personnel said that the paperwork would be coming from CH2M Hill; it was not received. Apparently, this information is now in the hands of Gary Hill (UPRR) who will be forwarding it to DEQ/WQD. The plans for the construction of the soil-bentonite wall do not foresee the destruction of any more wells.

- b. On page 5 of the "Response" document, response #11 is incorrect. Detailed plans and specifications for the monitoring system are incomplete.

With respect to the monitor network, the following concerns must be addressed in detail and submitted for approval prior to permit issuance:

- Few water level monitoring points were specified along the river and none were specified in the northwest corner of the site.
- A water level monitoring program is absent for both the alluvium and bedrock aquifers.
- A groundwater quality monitoring program is absent for all aquifers.
- Submit a comprehensive list of onsite and offsite monitor wells, which have been constructed for the site investigation and/or for the proposed monitor network. This information should be organized according to the formation which is monitored and should include basic information such as date of completion, perforation or open-hole interval, total depth, measuring point datum (mean sea level), and references where drilling and geophysical logs and water quality data are found.
- Well construction must be implemented according to Chapter XI, Part G of the Department of Environmental Quality, Water Quality Division, Rules and Regulations. Any deviations from these Rules and Regulations, such as the depth of the surface seal on shallow monitor wells, must be obtained prior to construction.
- It is recommended that a gravel pack rather than cuttings be used around well screens.
- Screened, perforated or open hole intervals must be limited to reasonable lengths in order to assure that discrete

intervals are being monitored. The detection of contaminants may be hindered when a screened interval spans several distinct permeable strata. This consideration is particularly important in the design of bedrock monitor wells which will be used to detect changes in gradient and the movement of contaminants into the bedrock.

- Monitor well design specifications must be submitted and approved by the Water Quality Division prior to construction.
- As built construction details, including well logs, must be submitted to the Water Quality Division within 30 days of well installation.
- Well BR-26 has not been constructed as agreed upon. Consult WQD for location of this well.

A lengthy discussion was held on the monitoring network because the plans and description contained in both the permit applications and in the Phase III Feasibility Study were inadequate.

It was agreed that at least 3 more shallow dual monitoring points would be installed along the Laramie River including one dual point on the northwest corner of the facility.

The monitoring frequency would be spelled out in more detail in the next submittal with special provisions for increased monitoring frequency in the event of system interruption. Water level monitoring frequency would be reduced if and when the flow regime reaches equilibrium.

The proposed bedrock monitoring system is composed of six wells. WQD recommended an additional monitoring point for both the Morrison and the Sundance. The new Morrison point would be located just north of the northwest corner of the facility; while the additional Sundance well would be located west of the Laramie River, several hundred feet south of the BR-8, -9, -10 cluster and clustered with an existing Morrison well. This Sundance well could be designated as BR-26, originally proposed in an October 30, 1984 letter to UPRR. Refer to that letter for the rationale for this well installation. CH2M Hill made no commitment on additional bedrock monitor points, but indicated that the expense was not warranted.

The comprehensive list of onsite and offsite monitor wells is required to comply with WQD Rules and Regulations, Chapter III, permitting procedures. While it is recognized that these wells were installed without the normal permits, it is now appropriate to include them as part of the site monitor network.

A gravel pack is recommended around well screens in order to assure that good hydraulic communication is established. Previous problems with poorly-producing wells and information from the GZA report on permeabilities are sufficient reason to attempt to provide a gravel pack. GZA reported that on-site materials could be expected to achieve a permeability of  $10 \text{ E-7 cm/sec}$ .

- c. The following questions have been raised concerning the response document.

- On page 7, response 17 mentions that "Inflows to the site were obtained from the technical memorandum on the plan view groundwater computer model, July 3, 1985." The information offered in that document is not useful without a presentation of the cell system.
- On page 13, response 5, the last paragraph is unclear. Please rephrase.
- On page 7, response 15 of the "Response" document states that the pumping and piping systems have been sized for flows in excess of the peak flows predicted by the computer model of the site. It appears that great emphasis has been placed on the computer model as a basis for the water management system design. However, the model documentation gives rise to a series of questions concerning the basic assumptions and the conclusions drawn from the model. The questions which follow may be answered by expanding upon the narrative which accompanies the presentation of the model's results.

(1) Plan View Groundwater Computer Model

- (a) Calibration criteria should include heads and either aquifer characteristics or flow. In the calibration, the transmissivity values of the nodes should be comparable to the transmissivity values obtained from pumping tests.
- (b) How close is the calibration? Some analysis should be done on the differences in head and transmissivity values. What is the standard deviation?
- (c) The set of values reached through the calibration effort are not necessarily unique. Many sets of different values for transmissivity, boundary conditions, and injection well flow rates can produce the same calibrated results. Parameters which have uncertain values due to lack of data and spatial variability, should be included in sensitivity analysis. Limiting the sensitivity analysis to the slurry wall hydraulic conductivity does not provide a thorough examination of the system.

(2) Cross-Section Groundwater Model

- (a) Were reasonable boundaries used? The justification of boundary conditions is not presented in adequate detail.
  - (i) How was the head of 139 feet determined to be the neutral level at which no inflow or outflow to the rock aquifer exists?

- (ii) "The lateral boundaries of the rock aquifer were taken as no flow boundaries because upward flow is noted to be more important than lateral flow." What is the basis for this assumption?
- (iii) The sensitivity analysis should include varying hydraulic conductivities and boundary conditions.
- (b) In the sensitivity analysis, the hydraulic conductivity of the alluvium should be adjusted for relative saturation where oil is present.
- (c) The saturated thickness of the alluvium should be adjusted where oil is present, and the oil body is assumed to be immobile.
- (d) Are the recommendations based upon the cross-section reliable?
  - (i) Calibration was not performed.
  - (ii) Sensitivity analysis should include varying hydraulic conductivities and constant head boundaries. Some of the contour maps derived from the limited analyses done on 5 scenarios indicate that the migration of creosote into the Sundance may occur as flow paths are altered. Considering the fact that upward hydraulic gradients are very slight, only a small change in these gradients would alter the flow regime. Inducement of downward migration of creosote would not require a complete gradient change, but rather only the elimination of upward buoyant forces could initiate creosote migration. Further sensitivity analyses should be performed on hydraulic conductivities in the Sundance. These analyses should pay particular attention to the resultant head distribution due to low hydraulic conductivities assigned to the site interior (or left-hand side of Run SA7). In the instance where K is reduced on the site interior, gradients would steepen and induce downward flow from the alluvium.
- (e) Referring to the contour maps in the "response" document of October 8, 1985, the "no-flow" lateral boundaries are inconsistent with the contours which indicate lateral flow in the bedrock.
- (f) Since gradient changes are a possibility, a water level monitor network should be designed which will adequately monitor gradients in both the bedrock and alluvial aquifers. Given the potentially large spatial

variability in hydraulic conductivities, the pattern of piezometers should have a density which will detect localized gradient changes.

The cell system apparently consists of a flow net contained in the Phase II revised draft. A more detailed explanation of the procedures used in estimating flows, including calculations and a copy of the actual cell system used, will be submitted.

Due to the previous lengthy discussions, insufficient time was allotted to discuss in detail the questions raised concerning the computer models used to evaluate the design of the water management system. The limited level of detail used in the computer models and the subsequent concerns raised in evaluating these models have resulted in a very limited level of applicability of the model's results. However, several observations can be made from the results of the models. It is believed that a more thorough sensitivity analysis of hydraulic conductivities, heads, and boundary conditions would provide more information on the potential for downward flow in areas where hydraulic conductivities and saturated thickness are reduced in the alluvium due to the oil body. This situation is expected to result in flow patterns far different than those shown in the model results because flow in the alluvium will be restricted. The lower hydraulic conductivities in the alluvium may result in steeper downward gradients. As an alternative to running more computer models, a more direct measurement of the flow regime is recommended. A dense pattern of monitoring points in the alluvium and in the Sundance will probably be necessary, particularly within the main oil body, to measure gradients. It is very important to be able to detect the spread of contamination in the Sundance as early as possible.

During phone conversations on December 12 and 13, 1985, additional recommendations were made to Paul Kunkel of CH2M Hill regarding the monitor network as follows:

1. Several dual monitoring points within the oil body boundaries should be constructed to measure the gradient between the alluvial aquifer and the top of the Sundance.
2. The shallow monitoring points along the river and outside the wall should be used both for water quality monitoring as well as static water levels.
3. The Morrison groundwater quality monitor network should include wells BR-28, -29, -17, -35, and an additional well just off the northwest corner of the proposed soil-bentonite wall.
4. The Sundance groundwater quality monitor network should include wells BR-23, -27, -1, -2, -3, -24, -25, -9, -10, -4, -5, -11, -12 and -26.
5. The Chugwater groundwater quality monitor network should include BR-18, -19, -22.
6. Monitoring frequency will vary for each well depending upon distance from the source, and may range from semi-annual to triennial.

*Comments for Phil P.*

Water Quality Division Comments as of November 15, 1985  
on Phase II Revised Report (Dated September 3, 1985) and CH2M Hill Response  
to WDEQ Comments on the Soil-Bentonite Cutoff Wall, Union Pacific Tie Plant,  
Laramie, WY (Dated October 8, 1985), DEQ/WQD Reference No. 85-365R

1. On page 5 of the "Response" document, response #11 is incorrect. Detailed plans and specifications for the monitoring system are incomplete.

With respect to the monitor network, the following concerns should be addressed:

- Few water level monitoring points were specified along the river and none were specified in the northwest corner of the site.
  - A water level monitoring program is absent for both the alluvium and bed-rock aquifers.
  - A groundwater quality monitoring program is absent for all aquifers.
2. A deviation from Chapter XI requirements is needed for the depth of the concrete surface seal on the monitor wells.
  3. On page 7, response 17 mentions that "Inflows to the site were obtained from the technical memorandum on the plan view groundwater computer model, July 3, 1985." The information offered in that document is unuseful without a presentation of the cell system.
  4. On page 13, response 5, the last paragraph is unclear. Please rephrase.
  5. On page 7, response 15 of the "Response" document states that the pumping and piping systems have been sized for flows in excess of the peak flows predicted by the computer model of the site. It appears that great emphasis has been placed on the computer model as a basis for the water management system design. However, the model documentation gives rise to a series of questions concerning the basic assumptions and the conclusions drawn from the model. The questions which follow may be answered by expanding upon the narrative which accompanies the presentation of the model's results.

Plan View Groundwater Computer Model

1. Calibration criteria should include heads and either aquifer characteristics or flow. In the calibration, the transmissivity values of the nodes should be comparable to the transmissivity values obtained from pumping tests.
2. How close is the calibration? Some analysis should be done on the differences in head and transmissivity values. What is the standard deviation?
3. The set of values reached through the calibration effort are not necessarily unique. Many sets of different values for transmissivity, boundary conditions, and injection well flow rates can produce the same calibrated results. Parameters which have uncertain values due to lack of data and spatial variability, should be included in sensitivity analysis. Limiting the sensitivity analysis to the slurry wall hydraulic conductivity does not provide a thorough examination of the system.

### Cross-Section Groundwater Model

1. Were reasonable boundaries used? The justification of boundary conditions is not presented in adequate detail.
  - a. How was the head of 139 feet determined to be the neutral level at which no inflow or outflow to the rock aquifer exists?
  - b. "The lateral boundaries of the rock aquifer were taken as no flow boundaries because upward flow is noted to be more important than lateral flow." What is the basis for this assumption?
  - c. The sensitivity analysis should include varying hydraulic conductivities and boundary conditions.
2. In the sensitivity analysis, the hydraulic conductivity of the alluvium should be adjusted for relative saturation where oil is present.
3. The saturated thickness of the alluvium should be adjusted where oil is present, and the oil body is assumed to be immobile.
4. Are the recommendations based upon the cross-section reliable?
  - a. Calibration was not performed.
  - b. Sensitivity analysis should include varying hydraulic conductivities and constant head boundaries. Some of the contour maps derived from the limited analyses done on 5 scenarios indicate that the migration of creosote into the Sundance may occur as flow paths are altered. Considering the fact that upward hydraulic gradients are very slight, only a small change in these gradients would alter the flow regime. Inducement of downward migration of creosote would not require a complete gradient change, but rather only the elimination of upward buoyant forces could initiate creosote migration. Further sensitivity analyses should be performed on hydraulic conductivities in the Sundance. These analyses should pay particular attention to the resultant head distribution due to low hydraulic conductivities assigned to the site interior (or left-hand side of Run SA7). In the instance where K is reduced on the site interior, gradients would steepen and induce downward flow from the alluvium.
5. Referring to the contour maps in the "response" document of October 8, 1985, the "no-flow" lateral boundaries are inconsistent with the contours which indicate lateral flow in the bedrock.
6. Since gradient changes are a possibility, a water level monitor network should be designed which will adequately monitor gradients in both the bedrock and alluvial aquifers. Given the potentially large spatial variability in hydraulic conductivities, the pattern of piezometers should have a density which will detect localized gradient changes.

58-12-85  
11-21-85

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Union Pacific Tie Treating Plant Slurry Wall, Albany Co.

ARCHITECT OR ENGINEER: CH2M Hill  
P.O. Box 22508, Denver, CO 80222

APPLICANT: UPRR  
1416 Dodge Street, Omaha, NE 68179

WATER QUALITY DIVISION REFERENCE NUMBER: 85-365R

REVIEWING ENGINEER: *LeRoy C. Feusner*, P.E., *Phil Pucel*, and *Christian G. Norman*

DATE OF REVIEW: November 15, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The following comments relate to both the Water Management System (WQD reference number 85-546) and the soil-bentonite cutoff wall (WQD reference number 85-365R) and are included in both reviews.

1. Abandonment and construction of replacement wells should be documented and permitted according to Chapter XI of the Water Quality Rules and Regulations. Wells which were abandoned during the Laramie River relocation were not documented according to Chapter XI.
2. On page 5 of the "Response" document, response #11 is incorrect. Detailed plans and specifications for the monitoring system are incomplete.

With respect to the monitor network, the following concerns must be addressed in detail and submitted for approval prior to permit issuances:

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- Well construction must be implemented according to Chapter XI, Part G of the Department of Environmental Quality, Water Quality Division, Rules and Regulations. Any deviations from these Rules and Regulations, such as the depth of the surface seal on shallow monitor wells, must be obtained prior to construction.
- It is recommended that a gravel pack rather than cuttings be used around well screens.
- Screened, perforated or open hole intervals must be limited to reasonable lengths in order to assure that discrete intervals are being monitored. The detection of contaminants may be hindered when a screened interval spans several distinct permeable strata. This consideration is particularly important in the design of bedrock monitor wells which will be used to detect changes in gradient and the movement of contaminants into the bedrock.
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- As built construction details, including well logs, must be submitted to the Water Quality Division within 30 days of well installation.
- Well BR-26 has not been constructed as agreed upon. Consult WQD for location of this well.

3. The following questions have been raised concerning the response document.

- On page 7, response 17 mentions that "Inflows to the site were obtained from the technical memorandum on the plan view groundwater computer model, July 3, 1985." The information offered in that document is not useful without a presentation of the cell system.
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b. Cross-Section Groundwater Model

- (1) Were reasonable boundaries used? The justification of boundary conditions is not presented in adequate detail.
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Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: UPRR Laramie Tie Treating Plant Slurry Wall Construction Application, Albany Co.

ARCHITECT OR ENGINEER: Paul D. Kunkel, CH2M Hill  
P.O. Box 22508, Denver, CO 80222

APPLICANT: Union Pacific Railroad Company  
1416 Dodge Street, Omaha, NE 68179

WATER QUALITY DIVISION REFERENCE NUMBER: 85-365

REVIEWING ENGINEER: *LeRoy Feusner*, P.E. and *Phil Pucel*

DATE OF REVIEW: August 21, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Introduction

This document addresses an application for a permit to construct a slurry wall, associated drains, and water treatment plant at the UPRR Laramie Tie Treating Plant (Ref. No. 85-365). The application was formulated after an extensive investigation of the site which provided information on hydrogeology and the characteristics and extent of contamination.

The construction of the slurry wall is an interim remedial action which is designed primarily to control the movement of groundwater through the affected area and secondarily to perform as a temporary barrier to contaminant migration in the event that the water control measures are ineffective. Use of a slurry wall in the control of the groundwater flow regime was conceived as a prerequisite to the implementation of comprehensive site remedial measures which will eliminate the sources of contamination and provide final disposal/destruction.

Only a cursory review was performed due to the incomplete nature of the application. Specific items are addressed below.

Discussion

1. A timetable is needed showing the construction schedule of the wastewater treatment plant, the slurry wall, and the drains. The water treatment facility and drainage systems should be operational prior to completion of the slurry wall in order to assure that increased heads within the wall do not develop with a subsequent increase in the driving force on the oil bodies. In the event of increased static water levels within the contained area, what capacity is available to reduce the accumulation of wastewater? What is the target SWL at the west end of the contained area? What is the period of time until stabilization of SWL's occurs?

2. Provide details of the phases of construction of the slurry wall. Where will the construction start?
3. The proposed construction plans/specifications do not carry the seal or signature of a professional engineer licensed in Wyoming.
4. No construction details or specifications were provided for the interior and exterior tile drain system. What size tile drain will be used to provide the stated wide range of flow? What slope will the tile drains be laid at? Profile drawings would be beneficial. How will flow be maintained in winter operations?
5. No construction details or specifications were provided for the interior and exterior drain sumps. It is not clear that one interior sump drain in the northwest corner will be adequate to handle indicated water flow rates. Please provide explanation of system operations.
6. Provide an explanation of system operation in regards to the realigned Laramie River elevation, existing groundwater level, and the interior/exterior drain system to ensure proper operation during high river stages.
7. If evapotranspiration is to be used as a possible water disposal mechanism inside the slurry wall, why not increase the interior land surface area which is to be used for irrigation?
8. Evolution of any volatile organics in the wastewater may create an air quality nuisance problem. Air Quality Division should be consulted.
9. How will the evapotranspiration system encourage biodegradation in the immediate future in the irrigated area? It appears that any biodegradation may be limited only to fringe areas where contamination (PCP) does not exist in sufficient quantity concentration to kill soil bacteria.
10. What provisions will be made to ensure optimal wastewater treatment during winter operations? How will carbon containers be kept from freezing?
11. How does UPRR propose to determine the overall effectiveness of this slurry wall/treatment system project? No monitoring program has been submitted or proposed.
12. Complete documentation of the full extent of subsurface contamination is not available so the applicant has assumed that the majority of the contamination will be contained within the slurry wall. It is suggested that the exterior drain system be installed initially to verify that it has been placed in contaminant-free areas.
13. The type of equipment necessary for excavation of bedrock was not specified nor was there a detailed assessment of rock properties. Provide information relevant to these items. In the event that difficulties are encountered in excavating the Morrison Formation such that the slurry wall is not constructed as proposed, what hydraulic controls will be activated to control migration through the Morrison? If this situation develops, the immediacy for source removal will take on greater importance.

14. Provide contingency plans for increased pumping and treating capacity in the event that groundwater inflow is greater than design estimates.
15. Address the reliability of the treatment plant to handle increased flows.
16. Provide details on standby power and duplicate treatment units which will be operated during maintenance shutdowns.
17. The following comments refer to "An Overview of the Reverse Gradient Cutoff Wall Containment System":

- a. On page 2, approximately 200 gpm is stated as the estimated internal drain withdrawal rate. The underlying assumptions and calculations should be presented.
- b. The estimates for groundwater flow rates and drainage rates changed considerably as work on the site progressed. Initial estimates in the Phase II report (using March 26, 1985 static water level data) indicate that alluvial groundwater flow across the site is 76,000 gpd and updip flow is 18,000 gpd. Different estimates were presented in Table 5 of the "Technical Compendium" where inflow under the shallow wall is 219,000 gpd; inflow through the wall is 140 gpd; and updip flow is 15,000 gpd. The drain discharge estimates provided in the Treatability Study greatly exceed the previous estimates for flow across the site.

North Drain	128,160 gpd
East Drain	504,000 gpd
South Drain	259,200 gpd
Treatment	302,400 gpd

The assumptions and procedures for developing the different sets of estimates should be presented.

- c. On page 13 of the Overview, Table 1 contains a summary of information which is really the heart of the basis for the design of the slurry wall and reverse-gradient system. The underlying calculations should be presented for review. In addition, the results of sensitivity analyses on the water balance and the impact of variable groundwater inflow rates on the capacity of the drainage systems should be provided. The water balance estimates are based upon values of hydraulic conductivity, presumably as reported in the Technical Compendium of April 25, 1985. The values for saturated thickness and hydraulic conductivity in Table 1 differ sharply from the values previously reported in the Draft Phase II report of May 11, 1984. The correct values should be reconfirmed and the reason for changes specified.
- d. What actual evaporation rate and what acreage are used in the consumptive use calculations?
- e. What is the source of data for the historically low groundwater level?

- f. From a final remedial action perspective, it may be more advantageous to install the drainage pipes on the bottom of the alluvium. This configuration would open the possibility of removing oil and accelerating aquifer restoration. A sensitivity analysis of the groundwater flow model, used in estimating inflow to the contained area, could be used to estimate any increases in wastewater volume estimates.

#### Backfill Design

1. Is there a quality control program for mixing the backfill to assure that some consistency in permeability is being achieved?
2. Is the GZA report on permeabilities of the composited alluvial soil samples reliable? The permeability values reported by GZA do not consider cracks which may develop as consolidation occurs and as drying occurs. It is anticipated that extensive portions of the wall will be dried out as water levels are lowered by the drainage systems.
3. The backfill testing procedures did not provide an examination of the mineralogy of the backfill before and after exposure to the leachate in the fixed-ring and triaxial tests. This examination could be used to determine short-term chemical effects on the clay structure and provide indications of the long-term stability of the backfill.
4. Based on the GZA tests, the optimum mix was determined to be a minimum of 2.5% bentonite, a minimum of 10% imported fine grained soil, and the remainder onsite soil. Using the assumption that the backfill should consist of 20% to 40% fine particles, i.e., particles which pass through the #200 sieve; the laboratory test results (in Table 2-2, pages 2-6 and 2-7) show that various locations along the wall alignment have soils requiring the addition of imported fine-grained soil at a rate greater than the minimum prescribed by GZA. A quality control program should be designed and implemented by an independent engineer to:
  - a. determine the appropriate percentage of fine-grained soils for discrete wall segments;
  - b. verify that adequate mixing has occurred, and
  - c. verify that the appropriate ratios have been achieved.
5. On page 14, section 4.20, leachate was used in testing filtrate loss. How does this leachate compare to free oil? What are the effects of the oil on the formation of filter cake? What is "worst-case" leachate?
6. On page 5 under Section 2.22: Test results:

An increase in permeability is attributed to a "pseudo-piping" mechanism, but visually detectable fines migration was not observed. GZA's elimination of these test results may not be appropriate. The higher permeability values are probably more representative of permeabilities attainable under field conditions. These values should be considered in the backfill design.

7. On page 1-5 in the second paragraph under EXTENT OF CONTAMINATION, "Morrison" should be eliminated in line 4.
8. On page 2-2 in Fig. 2-1, where is TP-13?
9. On page 3-9, under Sundance Formation, the rationale for the depth of the cutoff wall is explained but the calculations and economic analyses are not presented. This information should be made available.
10. In Appendix D, Results of Chemical Analyses, what is "Soil Sample Labeled Surf PBO2A"? Another sample is labeled "Soil Sample Labeled SS-1 PB01A". It is unclear whether these sample results refer to borehole samples in the dike along the river or to samples of excavated pond bottoms.
11. In Appendix B, page B-2, Fig. B2-1, boring location SS-1 was shown to be contaminated. Were there any other boreholes located to the north and northwest of SS-1 and used to establish the extent of contamination?

#### Bentonite Quality

1. What is the sodium content of the bentonite?
2. Will a high shear mixer be used to mix the slurry?
3. Formation time is critical in the formation of a complete filter cake. What period of time will elapse between slurry trench excavation and backfilling?
4. What is the grade of bentonite to be used in the backfill?

#### Wall Maintenance and Monitoring

1. Upon completion of construction of the wall, access to the site should be restricted so that large vertical loads are not applied along the trench walls. Where access is necessary for ongoing work at oil recovery wells, monitor wells, the water treatment plant, and the drainage system, adequate traffic caps should be constructed.
2. Extensive field notes should be kept identifying possible problem areas in the wall due to excavation difficulties, uncertainties in backfill content, and less than optimal filter cake formation.
3. Is there a plan for monitoring basal stability and ground movement?

#### Groundwater Monitoring

Static water level monitoring should be designed to provide data for:

1. assessing the rates of updip flow and underflow,
2. determining downward flow due to changes in head,
3. assessing the potential for contaminant migration further into the Sundance.

Review/UPRR Laramie Tie Treating Plant  
August 21, 1985  
Page 6

During the first year of operation, potentiometric surface maps should be developed and analyzed in order to gain a good understanding of the flow regime, the impacts of the wall, and the consequences of system failures.

Prior to, and immediately following wall installation, water quality analyses are important in establishing a reliable data base for subsequent comparisons.

PP/LCF/nc



ing 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, Wyoming 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.

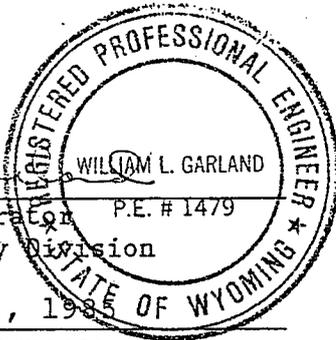
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

*William L. Garland*

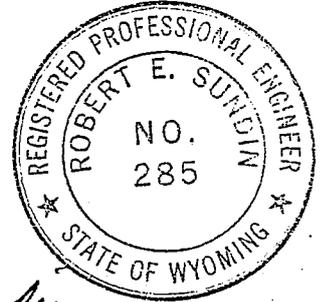
WILLIAM L. GARLAND  
P.E. # 1479  
Administrator  
Water Quality Division

August 5, 1985  
Date of Issuance



*Robert E. Sundin*

Director  
Dept. of Environmental Quality



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

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Painter NGL/NRU Plant Sediment Control Pond

ENGINEER: Lynn K. Schrauth  
Uinta Engineering & Surveying, Inc.  
P.O. Box 746  
Evanston, WY 82930

OWNER: Amoco Production Co.  
P.O. Box 829  
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: 85-366

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: July 24, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. The following comments must be addressed before a permit to construct will be issued:

1. What erosion control will be provided for interior and exterior dam surfaces?
2. What is the purpose of the 8" D.I. outlet pipe? Dewatering should be accomplished by dewatering from the surface of the reservoir.
3. Please provide a description of the operation of the reservoir to be in compliance with the NPDES permit.
4. Please verify that the cut off trench does extend for the full length of the dam.

BL/jw



THE STATE OF WYOMING

FILE  
COPY

ARCHIVES



MIKE SULLIVAN  
GOVERNOR

## 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

April 6, 1993

Gordon Steele  
Box 25  
Boulder, WY 82923

Re: Lagoon Permit Application 85-367RR; Your Letter of 25 March 1993

Dear Mr. Steele:

In your letter dated 25 March 1993 and in our conversations over the phone and during my site visit on 02 April 1993, we have reviewed your proposal to add a 9 unit motel service line to the existing lagoon system.

A permit to construct the lagoon was never issued, since application was made after the lagoon was already constructed. The lagoon was accepted as meeting the DEQ's minimum design standards in a letter to you, copy attached, dated 03 December 1985 and signed by Bill Locke.

From your description the permanent trailer park sites, that were part of the planned service in the original lagoon application, are vacant. Therefore you proposed to disconnect an equivalent number of trailer sites to match the estimated flow rate from the new motel into the lagoon. Using the DEQ's standards, that give estimated flow rates for trailer park sites and for motel units, it would require approximately 4 trailer sites to be equivalent to the estimated flow rate from a 9 unit motel with two double beds per room.

The occupancy rate and use season of both the motel and the trailer park sites are currently unknown.

The motel will add a service connection to the lagoon collection system, but the DEQ does not issue permits for service connections. Therefore the DEQ will not require a permit, nor require the trailer park sites to be disconnected. It will be your responsibility to manage the system to not over load the hydraulic or organic capacity of the lagoon. Depending on the actual

occupancy rate of all of your facilities, and the actual (rather than estimated) flow rates of all of the facilities you may have to limit the use of some service connections. This lagoon management will be your responsibility; any enforcement actions by the DEQ to change your management procedures would result from overloading that might have such impacts as discharges or odor.

As a guideline to lagoon management you can use the estimated flows of 4 trailer park sites being roughly equivalent to the 9 unit motel with two double beds per room. The ultimate determination will be the successful lagoon operation.

Sincerely,



Randall R. Taylor  
S.W. Dist. Supervisor

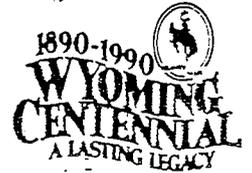
cc: Misty Haehn, Sublette County Planner, P.O. Box 506; Pinedale,  
WY 82941



THE STATE OF WYOMING

MIKE SULLIVAN  
GOVERNOR

*Running file*



## Department of Environmental Quality

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

August 7, 1987

Gordon Steele  
P O Box 25  
Boulder, WY 82923

RE: Boulder/Steele Wastewater Treatment Lagoon 85-367RR

Dear Mr. Steele:

The domestic well groundwater sample collection and analysis required as an operational condition of your wastewater treatment lagoon in a December 3, 1985 letter from Bill Locke can be discontinued.

If you have any questions, please feel free to contact me.

Sincerely,

*Thomas R. Williams*

Thomas R. Williams  
Groundwater Engineering Evaluator  
Water Quality Division

TRW/nc

cc: Jake Strohman, DEQ/WQD  
Bill Locke, DEQ/WQD, Lander

THE STATE



OF WYOMING

85-367RR  
MA14542  
ED HERSCHLER  
GOVERNOR

# Department of Environmental Quality

## Water Quality Division

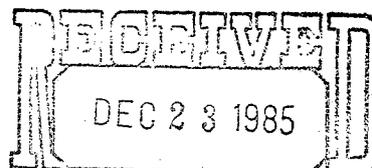
210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 3, 1985

Gordon Steele  
P.O. Box 25  
Boulder, WY 82923



WATER QUALITY DIVISION  
WYOMING

RE: Boulder/Steele Wastewater Treatment Lagoon, 85-367RR

Dear Mr. Steele:

The plans and specifications for the above facility have been reviewed and determined to meet the minimum design standards for the State of Wyoming. The design of this facility is therefore acceptable to this department with one operational condition: water samples from your domestic well located approximately 500 feet southeast of the site should be analyzed quarterly for the following list of parameters; pH, TDS, chloride, ammonia and nitrate. Reports of the analytical results should be submitted to the Department of Environmental Quality, Water Quality Division, Groundwater Section, Herschler Building, 122 W. 25th, Cheyenne, Wyoming, 82002, ATTN: Tony Mancini.

A permit to construct cannot be issued because this facility has already been constructed. Please retain a copy of this letter as proof that this facility has been accepted by this department. Should you have any questions or comments regarding this issue, please contact either Jack Bedessem or myself at 332-3144.

Sincerely,

A handwritten signature in cursive that reads "Bill Locke".

Bill Locke, P.E.  
Water Quality Engineer

BL/jw

copy: Tony Mancini, DEQ/WQD, Cheyenne  
Phil Essington  
Bert Reinow

Norma, Please  
return plans  
11-25-85

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-367

DATE SUBMITTED FOR REVIEW 11-18-85

NAME AND LOCATION OF FACILITY Boulder / Steele Wastewater  
Treatment Facility  
Boulder Wyoming  
Sublette County

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

No comment. The submittal is consistent with current groundwater protection procedures and requirements.

Comments attached.

SIGNED Kate Laudon

TITLE Engineer Evaluator

DATE 11-21-85

ACCEPTED FOR RECORD 11/20/85  
(Date)

ajm  
Groundwater Control Supervisor



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Bill Locke, Southwest District Water Quality Engineer  
FROM: Kate Laudon, Groundwater Engineering Evaluator *KgZ*  
DATE: November 21, 1985  
SUBJECT: Groundwater Review Boulder/Steele Wastewater Treatment Facility,  
DEQ/WQD Ref. No. 85-367R

In response to your review of August 21, 1985, Rio Verde Engineering has provided groundwater information from the vicinity of the Boulder/Steele Wastewater Facility located in Sublette County. The facility has already been constructed, and the applicant is seeking as-built approval.

The pond is designed to accept domestic waste. It was excavated in clay, with approximately 18 inches of clay placed on the side slopes.

Records from the State Engineer's Office indicate that groundwater occurs at shallow depths in the area. A domestic well located approximately 500 feet southeast of the site is completed to a depth of 40 feet. A cover letter from Pete Steele indicates that water in the original well has been sampled periodically. Reports of the sampling should be submitted, so we can attempt to define background water quality. The domestic well should be sampled quarterly and analyzed for the following list of parameters:

pH                      TDS                      Chloride                      Ammonia                      Nitrate

Reports of the analytical results should be submitted to the groundwater section within 30 days of the end of each quarter.

TSN/nc

cc: Tom Williams

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Boulder/Steele Wastewater Treatment Facility

ENGINEER: Phil Essington  
Rio Verde Engineering  
P.O. Box 67  
Pinedale, WY 82941

OWNER: Gordon Steele  
P.O. Box 25  
Boulder, WY 82923

WATER QUALITY DIVISION REFERENCE NUMBER: 85-367R

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: November 19, 1985

ACTION: Not authorized.

COMMENTS:

A secondary review of the above plans and specifications has been completed. The following items must be addressed before this facility will be accepted as constructed.

1. Reference was made to periodic water sample analysis of the Boulder Pub in your cover letter. Would you please provide us with a copy of any such data you have available?

2. There is a sincere concern about possible pollution of the area groundwaters. To monitor this, we feel it is necessary to install two groundwater monitoring wells on the northwest side of the facility. The existing Boulder Pub well could be sampled as an up gradient well, and the two new wells can be sampled as down gradient wells. The list of parameters for which the wells are to be sampled for and sampling frequency will be determined by the Groundwater Section of the Water Quality Division in Cheyenne.

Should you have any questions or comments, please contact either Jack Bedessem or myself.

BL/jw

C

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Boulder/Steele-Wastewater Treatment Facility

ENGINEER: Phillip D. Essington  
Rio Verde Engineering  
P.O. Box 67  
Pinedale, WY 82941

OWNER: Gordon Steele  
P.O. Box 25  
Boulder, WY 82923

WATER QUALITY DIVISION REFERENCE NUMBER: 85-367

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: August 21, 1985

ACTION: Not authorized.

COMMENTS:

An initial review of the above project has been completed. Before a letter of acceptance can be issued, several items must be addressed.

1. Some additional information and detail on the lagoon sizing is required. Provide a typical section cut thru the lagoon showing the following:

- top of dike elevation
- inside and outside slopes
- lagoon floor elevation and clay liner details
- freeboard
- normal water surface elevation
- high water surface elevation

Along with this, calculations of the lagoon volume are also required.

2. A detail showing the lagoon inlet piping is required. An apron or splash pad shall be located beneath the inlet pipe to protect the liner.

3. In the lagoon sizing calculations, loss due to seepage was estimated at 1/8" per day. Please provide data that supports this figure. If this data is not available, efforts will have to be made to obtain this information.

A

Review of Plans & Specs.

Ref. No. 85-367

Page Two

4. Water Quality Rules and Regulations (WQRR) specify lagoons shall be located more than 500 feet from existing habitation. From previous inspections it appears that these residences are located less than 500 feet from this facility. Address measures for buffering and securing the facility area.

5. Address erosion control of interior and exterior embankments. (i.e., seeding, rip-rap, etc.)

6. Some existing groundwater information is required. Provide well drilling logs of any wells within the immediate area of the lagoon ( $\frac{1}{4}$  mile). Include information as to the uses, static water level and a map indicating the location of each well.

7. Information is needed as to the seasonal high groundwater elevation beneath this facility. Seepage through the pond bottom and side walls shall not cause a violation of groundwater standards (WQRR, Chapter VIII).

If the applicant cannot document that the facility poses no threat to groundwater and elects not to perform a subsurface study in accordance with Chapter III, Section 15 (a) and (b), then the groundwater shall be protected from contamination by the wastewater with a liner equivalent to three feet (lm) of soil having a permeability of  $10^{-7}$  cm/sec or less.

8. Provide information on the quality of the shallowest most groundwater. If it appears that seepage from the lagoon may influence groundwater, a monitoring program may be required. Address groundwater monitoring.

Submit the required information and drawings to this office in triplicate by September 30, 1985. If you have any questions please feel free to contact me.

BL/jw

7-8

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Two Unit Restroom (Privie), Statewide

ARCHITECT OR ENGINEER: Jon S. Ogden, WY Game & Fish Dept.  
5400 Bishop Blvd., Cheyenne, WY 82002

APPLICANT: WY Game & Fish Dept.  
5400 Bishop Blvd., Cheyenne, WY 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 85-368

REVIEWING ENGINEER: Christian G. Norman



DATE OF REVIEW: July 5, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The vaults shown in the plans are only 4 feet deep. The vaults shall be a minimum of 4.5 feet deep.
2. The vent should have vent caps and should be screened.
3. What are the specifications of the hypalon liner? Also, provide more detail on the installation of the liner.
4. When a permit of construct is issued, the appropriate Department of Environmental Quality, Water Quality Division office shall be notified 20 days in advance of construction. This notification shall include locations and a site plan showing isolation distances.



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 16, 1986

Wyoming Game & Fish Department  
5400 Bishop Blvd.  
Cheyenne, WY 82002

To whom it may concern:

Your statewide permit number 85-368RR, for small wastewater facilities, contains a condition requiring the notification of the appropriate county or state agency prior to the installation or abandonment of facilities authorized by the permit.

A review of state and county records indicates that very few of these facilities are being reported. It is important that these facilities be reported on a regular basis. County governments have agreed to the use of statewide permits on the condition that they be properly notified. If the statewide permitting system is not responsive to the needs of the counties, the state will not be able to issue statewide permits and it will be necessary to obtain permits for such facilities with the individual counties.

In order to address this problem you are requested to do the following:

1. Provide this office a list and location of all facilities constructed under your statewide permit.
2. Indicate the present status of each facility, i.e., operational or abandoned.
3. Indicate whether or not you wish to maintain the statewide permit in an active status.
4. Provide the required notification to both the appropriate county and state agency for all future facilities.

Sincerely yours,

A handwritten signature in cursive script that reads "Lawrence Robinson".

Lawrence Robinson  
Engineering Supervisor

LR/nc

7-31 17

PERMIT TO CONSTRUCT

Permit No. 85-368RR  
SEE CONDITION ON BACK  
MA 14542

- New
- Renewal
- Modified

Two Unit Restroom (Privie), Statewide  
(Name of Facility)

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

Wyoming Game & Fish Department

5400 Bishop Blvd.

Cheyenne, WY 82002

to construct, install, or modify a privie according to the procedures and conditions of the application No. 85-368RR. The facility is located Statewide 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.

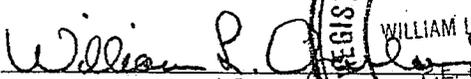
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 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 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. GARLAND  
P.E. #1479  
Administrator  
Water Quality Division  
STATE OF WYOMING  
July 26, 1985  
Date of Issuance

  
ROBERT E. SUNDIN  
NO. 285  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING  
Director  
Dept. of Environmental Quality

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

Condition to Permit to Construct #85-368

The permittee shall notify the appropriate county or state agency prior to the installation, removal or abandonment of any facility authorized by this permit. The appropriate agency for each county is indicated in the attached list. Notification shall be by phone with a follow-up written notice. Upon abandoning the site, the facility will be removed, disposed of, or left in place in a condition rendering the site safe for the public. Any waste from the facility shall be disposed of only in areas and in a manner approved by the appropriate agency. Upon request, the permittee shall allow authorized representatives of the local agency or the State to have access to the authorized facility for the purpose of conducting an inspection to determine compliance with the provisions of this permit.

cc: Jon S. Ogden  
Wyoming Game & Fish Dept.  
5400 Bishop Blvd.  
Cheyenne, WY 82002

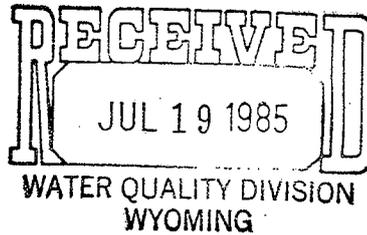
AGENCIES RESPONSIBLE FOR SMALL WASTEWATER PERMITS

1. Albany County  
Albany County Planning Office  
405 Grand Avenue  
Laramie, WY 82070  
Phone: (307) 721-5188
2. Big Horn County  
Big Horn County Engineer  
P.O. Box 31  
County Courthouse  
Basin, WY 82410  
Phone: (307) 568-2358
3. Campbell County  
Campbell County Engineer  
500 South Gillette Avenue  
Gillette, WY 82716  
Phone: (307) 682-1970
4. Carbon County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
Herschler Bldg. - 4th West  
Cheyenne, WY 82002  
Phone: (307) 777-7781
5. Converse County  
Converse County Sanitarian  
County Health Department  
127 North 5th Street  
Douglas, WY 82633  
Phone: (307) 358-2536
6. Crook County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457
7. Fremont County  
Fremont County Planner  
Room 200, County Courthouse  
Lander, WY 82520  
Phone: (307) 332-5371
8. Goshen County  
Goshen County Sanitarian  
P.O. Box 1132  
County Courthouse  
Torrington, WY 82240  
Phone: (307) 532-5002
9. Hot Springs County  
Hot Springs County Planner  
County Courthouse  
Thermopolis, WY 82443  
Phone: (307) 864-2732
10. Johnson County  
Johnson County Sanitarian  
County Courthouse  
Buffalo, WY 82834  
Phone: (307) 684-7555
11. Laramie County  
Laramie County Environmental Health  
1700 Snyder Avenue  
Cheyenne, WY 82001  
Phone: (307) 638-8545
12. Lincoln County  
Office of Planning and Development  
P.O. Box 414  
Afton, WY 83110  
Phone: (307) 886-3825
13. Natrona County  
Environmental Health Division  
Natrona County Health Department  
1200 East 3rd  
Casper, WY 82601-2990  
Phone: (307) 235-9316
14. Niobrara County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457

15. Park County  
Park County Planning Coordinator  
P.O. Box 160  
Cody, WY 82414  
Phone: (307) 587-2208
16. Platte County  
Platte County Sanitarian  
P.O. Box 55  
Wheatland, WY 82210  
Phone: (307) 322-9571
17. Sheridan County  
Sheridan County Engineer  
P.O. Box 612  
Sheridan, WY 82801  
Phone: (307) 672-3426
18. Sublette County  
Sublette County Planner  
P.O. Box 506  
Pinedale, WY 82941  
Phone: (307) 367-4375
19. Sweetwater County  
Sweetwater County Sanitarian  
205 East Railroad Ave.  
Green River, WY 82935  
Phone: (307) 875-2611 Ext. 278
20. Teton County  
Teton County Sanitarian  
P.O. Box 1727  
Jackson, WY 83001  
Phone: (307) 733-3959
21. Uinta County  
Uinta County Engineer  
225 9th Street  
Evanston, WY 82930  
Phone: (307) 789-1780 ext. 318
22. Washakie County  
Washakie County Planner  
County Courthouse  
Worland, WY 82401  
Phone: (307) 347-2741
23. Weston County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457



THE STATE OF WYOMING



85-370

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

2161 COFFEEN AVENUE,  
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

July 17, 1985

Mr. John Lambert  
P.O. Box 34  
Douglas, Wyoming 82633

Dear Mr. Lambert:

I have forwarded your permit application for the Hornbuckle School septic system to the Converse County Sanitarian. Converse County has the authority to approve small wastewater facilities if the flow is less than 2,000 gallons per day. Therefore, in this case, DEQ approval is not required and a permit will be issued through the County.

The plans were sent to: Debbi Standard  
Converse County Sanitarian  
Converse County Health Department  
127 North 5th Street  
Douglas, Wyoming 82633  
(358-2536)

Sincerely,

Susan Holmes  
Environmental Engineer

SH:ls

THE STATE OF WYOMING



ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

2161 COFFEEN AVENUE,  
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

July 17, 1985

Ms. Debbi Standard  
Converse County Sanitarian  
127 North 5th Street  
Douglas, Wyoming 82633

Dear Debbi:

Enclosed are plans for a small wastewater facility that were incorrectly submitted to this office. I have notified the engineer that I have forwarded the plans to you.

Sincerely,

*Susan Holmes*

Susan Holmes  
Environmental Engineer

SH:ls  
Enclosures

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-371R  
MA 14689

Raw Water Intake and Pipeline  
(Name of Facility)

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

Town of Encampment

P.O. Box 5

Encampment, WY 82325

to construct, install, or modify a source development facility according to the procedures and conditions of the application No. 85-371R. The facility is located in Section 10, 11, 15, T14N, R84W in the County of Carbon, 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.

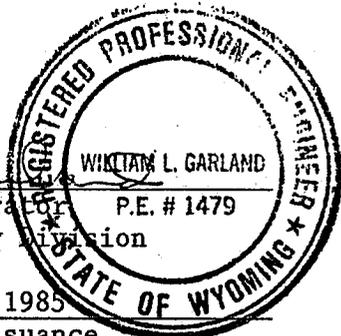
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

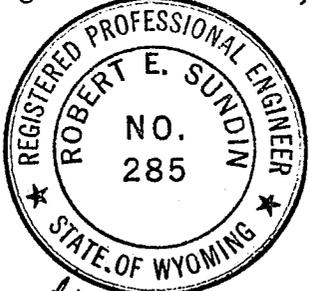
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 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 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. Garland*  
Administrator  
Water Quality Division  
P.E. # 1479  
July 31, 1985  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

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

cc: Theodore D. Coyer  
Simons, Li & Assoc., Inc.  
1780 Westland Road  
Cheyenne, WY 82001

7-17

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Encampment Raw Water Intake and Pipeline, Carbon Co.

ARCHITECT OR ENGINEER: Theodore D. Coyer, Simons, Li & Assoc., Inc.  
1780 Westland Road, Cheyenne, WY 82001

APPLICANT: Town of Encampment  
P.O. Box 5, Encampment, WY 82325

WATER QUALITY DIVISION REFERENCE NUMBER: 85-371

REVIEWING ENGINEER: Christian G. Norman



DATE OF REVIEW: July 11, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Sheet 5 - The end of pipeline refers to a detail sheet. The note should reference the sheet where the detail is found.
2. Sheet 6 - Sheet 11 is referenced as the catch basin detail sheet. This should reference sheet 7.
3. Sheet 7 - How will the manhole and slide valves be protected from vandals?
4. Design information needs to be submitted on design flows, pipe sizing, well screen sizing, and length of screen.
5. The well screen specification did not identify percent of opening or slot size opening.
6. If you ever shut the valve off inside the catch basin, the basin will fill up with water so that you will not be able to get inside to open it again.
7. It looks like two sets of steps in Section AA of page 7 but only one set on the plan view.

7-17-85

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-372  
 Ref. No. 85-146  
 84-322

MA 14689

Wastewater Collection and Stabilization Pond  
 (Name of Facility)

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

Town of Riverside

P.O. Box 94

Encampment, WY 82325

to construct, install, or modify a sewage collection facility according to the procedures and conditions of the application No. 85-372. The facility is located in Section 1 and 36, T14 and 15N, R84W in the County of Carbon, 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.

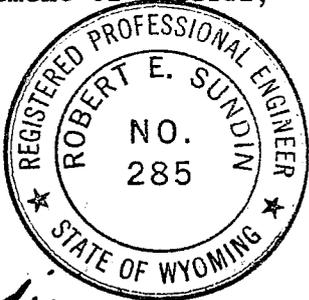
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 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 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. Garland*  
Administrative  
Water Quality Division  
PE # 1479  
STATE OF WYOMING

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

July 12, 1985  
Date of Issuance

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

cc: Theodore D. Coyer  
Simons, Li & Assoc., Inc.  
1780 Westland Road  
Cheyenne, WY 82001

7-17

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-373  
 SEE SPECIAL CONDITIONS ATTACHED  
 MA 14542

Amoco Lander Field Disposal Pits  
 (Name of Facility)

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

Amoco Production Company

P.O. Box 1400

Riverton, WY 82501

to construct, install, or modify a test bore hole network according to the procedures and conditions of the application No. 85-373. The facility is located in Section 24, T2S, R1E in the County of Fremont, 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.

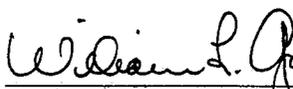
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

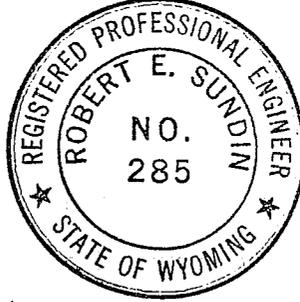
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Section,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

  
Adminisrator  
Water Quality Division  


  
Director  
Dept. of Environmental Quality  


July 12, 1985  
Date of Issuance

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

- cc: Steve Gerber, DEQ/WQD, Lander
- Jake Strohmman, DEQ/WQD, Cheyenne
- A. J. Mancini, DEQ/WQD, Cheyenne

Conditions to Permit to Construct #85-373

1. Soil samples should be obtained for soil classification and permeability testing. Drilling logs should be kept from each bore hole. At least one bore hole must be upgradient of the pits. The one bore hole next to the smaller pit must be downgradient from the pit.

Conditions to Permit to Construct #85-373 (Continued)

2. All of the bore holes and the pit liquids should be sampled for the following list of parameters:

pH	<u>Dissolved Metals</u>
Conductivity	Aluminum
Total Dissolved Solids	Arsenic
Sulfate	Barium
Chloride	Berillium
Calcium	Cadmium
Sodium	Chromium
Potassium	Cobalt
Magnesium	Copper
Carbonate	Iron
Bicarbonate	Lead
Boron	Lithium
Total Phosphate	Manganese
Nitrate + Nitrate as Nitrogen	Mercury
Ammonia as Nitrogen	Nickel
Chemical Oxygen Demand	Selenium
Total Organic Carbon	Vanadium
Phenols	Zinc
Oil and Grease	

3. The pit sludges should be sampled for the following list of parameters:

<u>Total Metals</u>	<u>Total Metals</u>	Reactive Sulfides
Aluminum	Lead	pH
Arsenic	Manganese	
Barium	Mercury	
Cadnium	Nickel	
Chromium	Selenium	
Copper	Vanadium	
Iron	Zinc	

4. Within 90 days from the issuance of this permit, a report on the subsurface investigation should be submitted to the Water Quality Division for review. This report should contain at a minimum:

- A. A location map and map showing borings in relation to the pits;
- B. Logging data from each bore hole;
- C. Sample collection procedures;
- D. Sampling analytical results;
- E. Water table map showing direction of groundwater movement; and
- F. Interpretation of data and conclusions.

5. Based on the results of the subsurface contamination investigation, a more comprehensive groundwater monitoring and/or cleanup plan may be required by the Water Quality Division.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-374  
 SEE CONDITIONS ATTACHED  
 MA 14542

Lightning State Tank Batteries #3-36 and #12 & #13-36  
 (Name of Facility)

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

Energy Reserves Group, Inc.

P.O. Box 3280

Casper, WY 82602

to construct, install, or modify a skim pond-produced water facility according to the procedures and conditions of the application No. 85-374. The facility is located in Section 36, T35N, R66W in the County of Niobrara, 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 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.

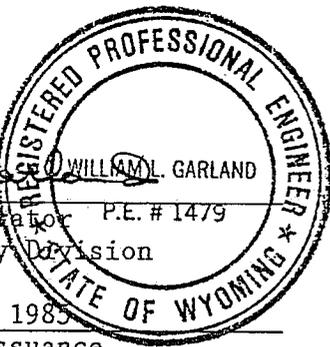
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

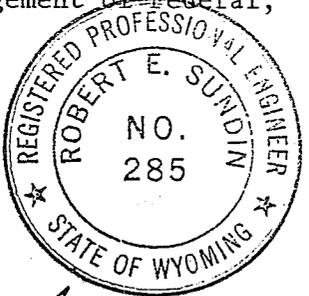
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 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 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. Garland*  
WILLIAM L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
STATE OF WYOMING  
July 24, 1985  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

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

This permit authorizes you to dispose of 1,470 gallons of waste oil/year on the adjoining 1.8 miles of lease road, comprising 4.4 acres, a total liquid application of 0.012 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-374

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

8/28

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-375RR  
MA 14542

Town of Cokeville, Water System Improvements  
(Name of Facility)

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

Town of Cokeville  
P.O. Box 99  
Cokeville, WY 83114

to construct, install, or modify a water line replacement project

\_\_\_\_\_ facility according to the procedures and conditions of the  
 application No. 85-375RR. The facility is located in \_\_\_\_\_  
Tract 90, T24N, R119W

\_\_\_\_\_ in the County of Lincoln,  
 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 dur-

ing 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.

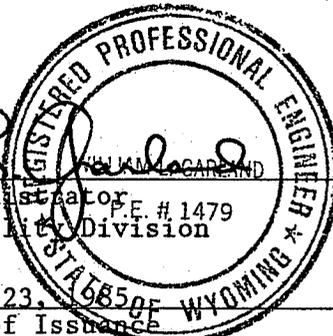
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

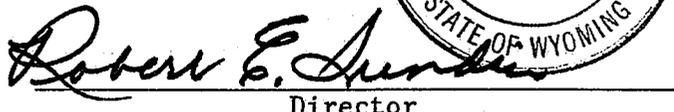
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:

  
\_\_\_\_\_  
Admin. Director  
Water Quality Division  
P.E. # 1479  
August 23, 1985  
Date of Issuance



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



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

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Water System Improvements-Town of Cokeville

ENGINEER: Kim Lobdell  
Jack Noblitt & Associates  
1920 Thomas Avenue, Suite 620  
Cheyenne, WY 82001

OWNER: Town of Cokeville  
P.O. Box 99  
Cokeville, WY 83114

WATER QUALITY DIVISION REFERENCE NUMBER: 85-375R

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: August 12, 1985

ACTION: Not authorized.

COMMENTS:

A review of the above revised plans and specifications has been completed. The following items must be addressed before a permit to construct will be issued:

1. The minimum size water main for providing fire protection and serving fire hydrants shall be 6 inch diameter when the hydrant is served from two directions. Two of the proposed fire hydrants are to be installed on 4 inch diameter main. This is not in compliance with the Water Quality Rules and Regulations, Chapter XII, Section 14.

2. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw

*B*

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Water System Improvements - Town of Cokeville

ENGINEER: Kim Lobdell  
Jack Noblitt & Associates  
1920 Thomas Ave., Suite 620  
Cheyenne, WY 82001

OWNER: Town of Cokeville  
P.O. Box 99  
Cokeville, WY 83114

WATER QUALITY DIVISION REFERENCE NUMBER: 85-375

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: July 22, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. The following items must be addressed before a permit to construct can be issued:

1. The location of all sewer lines within 30 feet (horizontally) from the water mains must be shown on the plan view. Any sewers that intersect the water lines must also be shown on the profile. Dimensions between the waterline and sewerline should be included in the plan and profile views. Horizontal and vertical separation of the two lines must meet the criteria outlined in the Water Quality Rules and Regulations, Chapter XII, Section 14. Please review this section to insure compliance.
2. The minimum size watermain for providing fire protection and serving fire hydrants shall be 6 inch diameter when served from two directions. Several of the proposed hydrants are to be installed on existing 4 inch diameter mains. This is not in conformance with the Water Quality Rules and Regulations, Chapter XII, Section 14.
3. Please clarify the type, size and model of acceptable fire hydrant to be installed. Also, please clarify that the hydrant load and isolation valve are a minimum of 6 inch diameter.
4. Please clarify that pressure testing and disinfection of the waterline shall be conducted in compliance with the 1984 Wyoming Public Works Standard Specifications.
5. Please provide revised plans and specifications in triplicate to this office.

Should you have any questions or comments, please contact Jack Bedessem or myself.

BL/jw



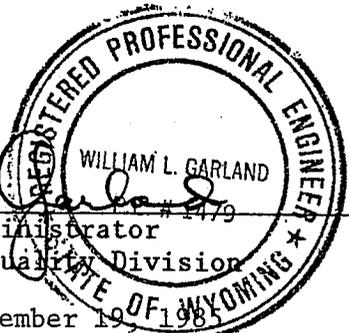
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 301, 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. Garland  
Administrator  
Water Quality Division  
September 1985  
Date of Issuance

Ralph Wood  
Director  
Dept. of Environmental Quality

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

xc: Timm & Associates  
P.O. Box 726  
Gillette, WY 82716

Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
2161 COFFEEN AVE., SUITE 601  
SHERIDAN, WYOMING 82801

PROJECT: 4-J School Wastewater Facility

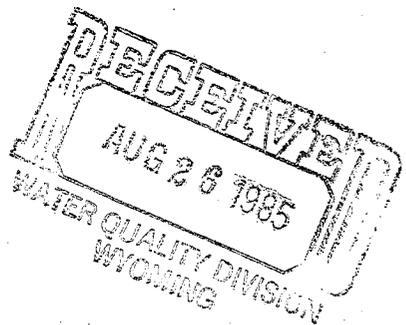
ARCHITECT OR ENGINEER: Christopher R. Hard  
Rundquist and Hard, P.C.  
108 East 5th Street  
Gillette, Wyoming 82716

WATER QUALITY DIVISION  
REFERENCE NUMBER: 85-376R

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: August 22, 1985

ACTION: Not Authorized



COMMENTS:

- 1.) The interconnecting piping between the cells shall have their discharge ends at least ten feet from the toe of the dike and terminate on a concrete apron.
- 2.) The invert level of the inlet manhole to the lagoon must be at least six inches above the operating level of the lagoon (5 feet). Otherwise, the manhole and sewer line above it will always be surcharged.

The inlet manhole should preferably be as close to the lagoon as possible.

- 3.) The sewer line should have four feet of cover on it to prevent freezing.
- 4.) The lagoon embankments and berms should be compacted to 95% of maximum density.
- 5.) The facility met the approval of our Groundwater Section.

xc: Dennis Stillman

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

Returned  
to Skendaw 8/21

APPLICATION NUMBER 85-376 R

DATE SUBMITTED FOR REVIEW 8-20-85

NAME AND LOCATION OF FACILITY Y-J. School Wastewater Facility  
CAMPBELL Co.

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Richard L. Gray  
TITLE Env. Eval.  
DATE 8-20-85

ACCEPTED FOR RECORD 8/21/85  
(Date)

ajm  
Groundwater Control Supervisor

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-376

DATE SUBMITTED FOR REVIEW 7-23-85

NAME AND LOCATION OF FACILITY 4J School WWF  
S15, T 46N, R 74W  
CAMPBELL Co.

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Richard Lenny  
TITLE Eng. Eval  
DATE 7-30-85

ACCEPTED FOR RECORD 7/31/85  
(Date)

ajm  
Groundwater Control Supervisor



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

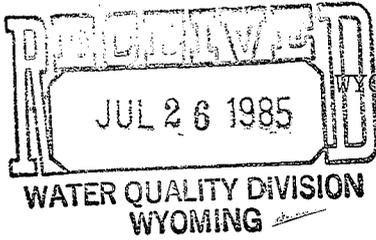
TO: Rich Ruyle, District Engineer

FROM: R. J. Lennox, Groundwater Section Engineering Evaluator 

DATE: July 31, 1985

SUBJECT: 4-J School Wastewater Facility - 85-376

1. I have reviewed the material submitted for groundwater protection concerns and have the following comments:
  - a. Information has not been presented concerning groundwater conditions in the area of the proposed lagoon site.
  - b. Information concerning what materials will be used to construct the non-discharging three celled lagoon system has not been submitted.
2. Based on the above, specific comments concerning the adequacy of groundwater protection requirements cannot be made at this time. When a complete application is submitted with the required information decision will be made concerning requirements for groundwater monitoring programs etc.
3. Recommend not be approved.



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
2161 COFFEEN AVE., SUITE 601  
SHERIDAN, WYOMING 82801

PROJECT: 4-J School Wastewater Facility

ARCHITECT OR ENGINEER: Christopher R. Hard  
Rundquist and Hard, P.C.  
108 East 5th Street  
Gillette, Wyoming 82716

WATER QUALITY DIVISION  
REFERENCE NUMBER: 85-376

REVIEWING ENGINEER: Rich Ruyle

DATE OF REVIEW: July 24, 1985

ACTION: Not Authorized

COMMENTS:

- 1.) I am not certain where the 200 gpd for the teacherages come from in Table I of Chapter XI.
- 2.) A month by month water balance sheet would be helpful to determine exactly how high and low the water level will get. The ponds may be able to be smaller.
- 3.) A profile view of the sewers and ponds should be provided showing inlet and connecting pipe details.
- 4.) Construction and material specifications are needed for the sewers and ponds.
- 5.) A septic tank is not necessary but will probably help in reducing odors from the lagoon. If the tank is used a detail drawing and/or specifications of it should be provided.
- 6.) We normally ask for capability to bypass the first cell. Again, if a septic tank is used, this will not be necessary.
- 7.) The submittal is being reviewed by our Groundwater Section in Cheyenne. I will forward those comments as soon as they are available.

xc: Dennis Stillman, Timm & Associates



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 301, Sheridan, Wyoming 82801; telephone, 672-6457.

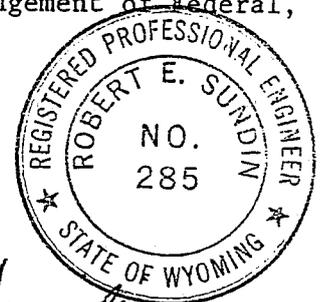
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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. Garland*  
\_\_\_\_\_  
Administrator  
Water Quality Division



*Robert E. Sundin*  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

July 17, 1985  
\_\_\_\_\_  
Date of Issuance

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

CONDITION

The chlorine solution piping shall be connected directly to the water supply line.

xc: Timm & Associates  
P.O. Box 726  
Gillette, WY 82716



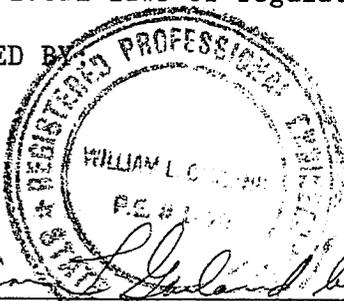
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 301, Sheridan, Wyoming 82801; telephone, 672-6457.

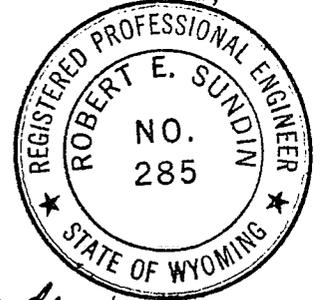
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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. G...*  
\_\_\_\_\_  
Administrator  
Water Quality Division



*Robert E. Sundin*  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

July 17, 1985  
\_\_\_\_\_  
Date of Issuance

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

xc: Doyl Fritz  
Western Water Consultants  
P.O. Box 3042  
Sheridan, WY 82801

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-379  
 SEE CONDITIONS ATTACHED  
 MA 14542

Huckaby-Leidy #1  
 (Name of Facility)

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

Exxon Corp.

P.O. Box 1600

Midland, TX 79702

to construct, install, or modify a drilling fluids reserve pit facility according to the procedures and conditions of the application No. 85-379. The facility is located in Section 14, T44N, R113W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of one (1) year (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.

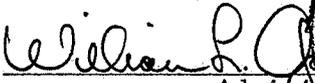
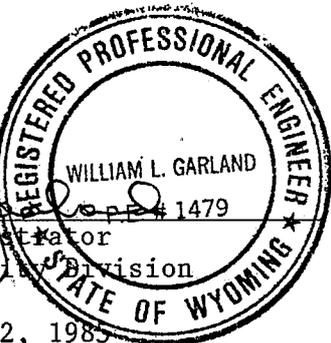
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

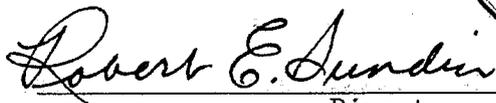
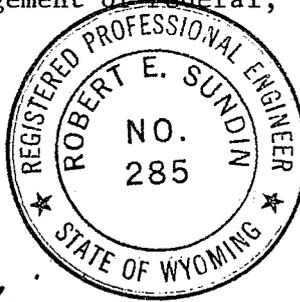
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 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 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. GARLAND  
# 1479  
Administrator  
Water Quality Division  


  
Director  
Dept. of Environmental Quality  


July 12, 1985  
Date of Issuance

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

This permit authorizes you to dispose of 556,474 gallons of wastewater on the surrounding 8 acres, a total liquid application of 2.6 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-379

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. To assess the long term effects of the wastewater application on the soil and its relation to revegetation success on denuded areas, the seed mix (% of selected species), seed rate (lbs. of bulk seed/acre and % pure live seed), mulch and fertilizer preferred by the landowner-lessee or land management agency should be forwarded to E. J. Fanning, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002, within 30 days of receipt of this permit.



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality  
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

June 9, 1986

Jack Ruhter, Manager  
Intermountain Truck & Equipment Company  
P O Box 1106  
Cheyenne, WY 82003

RE: DEQ/WQD Permit 85-380RRR

Dear Mr. Ruhter:

The proposed modification of adding a retaining wall to your holding tank is acceptable.

Sincerely,

A handwritten signature in cursive script that reads "Thomas S. Norman".

Thomas S. Norman  
Engineering Area Evaluator

TSN/pjb



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 8, 1986

Jack Ruhter, Manager  
Intermountain Truck & Equipment Company  
P. O. Box 1106  
Cheyenne, Wyoming 82003

RE: DEQ/WQD Permit 85-<sup>380RRR</sup>~~830RRR~~

Dear Mr. Ruhter:

As a result of our July 3, 1986 meeting with Jake Strohman and Kate Laudon of this office, the following modifications of the above permit are hereby approved:

1. The overall depth of the holding tank will be reduced from 4 feet to 3 feet 6 inches. The tank will be elongated to maintain the same total volume as approved in the original permit. The water depth in the tank will not exceed 2 feet 6 inches.
2. The tank will not be formed in one continuous pour. The floor slab will be poured separately. The walls will be poured on the slab. The walls will be joined to the slab by #4 reinforcing steel and VINYLLOC PVC WATERSTOP, Type No. DB 38-9.
3. The holding tank walls and slab will be 8 inches thick rather than 6 inches.
4. Within 9 months of installation of the facility, Intermountain Trucking will sample the contents of the water in the holding tank after the oil layer has been removed, have it analyzed at a laboratory and the results submitted to DEQ. The sample will be analyzed for the following:

Total Organic Carbons  
Benzene  
Toluene  
Xylene  
Polynuclear aromatics

Jack Ruhter  
July 8, 1986  
Page Two

5. The holding tank will be completely emptied at least once every year in order for inspection to identify and repair any crack and/or leaks.

Sincerely,



Larry Robinson  
Engineering Supervisor

LR/jn

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-380RRR  
SEE CONDITION ON BACK

Intermountain Truck & Equipment  
(Name of Facility)

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

Intermountain Truck & Equipment Co.

701 East 1st Street

Cheyenne, WY 82007

to construct, install, or modify a commercial wastewater holding tank facility according to the procedures and conditions of the application No. 85-380RRR. The facility is located in Section 5, T13N, R66W in the County of Laramie, 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.

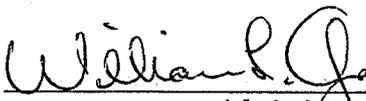
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

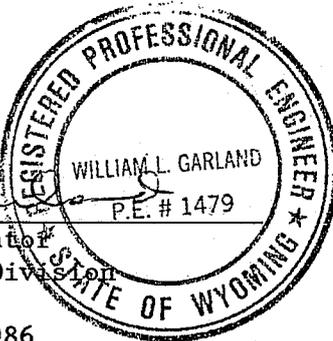
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

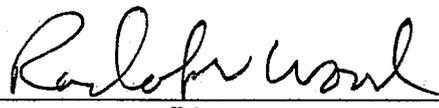
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any 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

May 8, 1986  
Date of Issuance

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

Condition to Permit to Construct #85-38ORRR

The permittee shall notify the Department of Environmental Quality prior to reclaiming the existing pond.

cc: Donald M. Hopkins  
DM Hopkins & Associates  
216 E. 17th Street  
Cheyenne, WY 82001

10-4-85

Review of Plans and Specifications  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Intermountain Truck & Equipment Co., Laramie Co.

ARCHITECT OR ENGINEER: Don Hopkins, Don Hopkins & Assoc.  
216 E. 17th St., Cheyenne, WY 82001

APPLICANT: Jack Ruther, Intermountain Truck & Equipment Co.  
701 E. 1st St., Cheyenne, WY 82007

WATER QUALITY DIVISION REFERENCE NUMBER: 85-380RR

REVIEWING ENGINEER: Christian G. Norman 

DATE OF REVIEW: September 30, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Responses to comments 1, 2 and 4 of the August 9, 1985 review are inadequate. A letter is required from the receiving agency which will receive the liquid or solid waste. One letter will be required from the Cheyenne Board of Public Utilities denoting acceptance of the wastewater to be generated from the site and acceptance of the existing fluids. One letter will be required from the City of Cheyenne denoting acceptance of the contaminated soils at the City land-fill.
2. Comment number 4 requested technical information of the waterproofing material. None was received. Please provide this office with technical information on XYPEX.

CN/nc

Review of Plans and Specifications  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Intermountain Truck & Equipment Co., Laramie Co.

ARCHITECT OR ENGINEER: Don Hopkins, Don Hopkins & Assoc.  
216 E. 17th St., Cheyenne, WY 82001

APPLICANT: Jack Ruhter, Intermountain Truck & Equipment Co.  
701 E. 1st St., Cheyenne, WY 82007

WATER QUALITY DIVISION REFERENCE NUMBER: 85-380R

REVIEWING ENGINEER: Christian G. Norman



DATE OF REVIEW: August 9, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Provide a letter of verification from the local receiving agency denoting acceptance of the wastewater generated.
2. The disposal destination for the existing fluids and contaminated soils should be reported.
3. Two cells would allow one pond to be serviced while the other was in use. A one cell pond is acceptable if documentation is provided showing that the facility is not essential for Intermountain Truck & Equipment Co.
4. What is the product to be used for the water proof coating? Is it resistant to the oil and other materials that will be present in the pond? Provide the trade name and technical information on the coating.
5. The concrete holding tank should be inspected semi-annually for cracks and deterioration of the waterproof coating. The Department of Environmental Quality, Water Quality Division, should be notified by letter of the date of inspection and the findings of the inspection. Any necessary repairs should be implemented as soon as problems are discovered.
6. The holding tank shall be equipped with a high water level alarm.
7. Section 4.0 of the intergovernment agreement between the City of Cheyenne, Laramie County, the South Cheyenne Water and Sewer District, and the Cheyenne Board of Public Utilities for the implementation of the 201 facilities plan outlines the requirement of obtaining an exception to hooking up to the City system. For Intermountain Truck and Equipment Company to gain an exception, the request must be submitted to the Planning Commission. After the Planning Commission review, the exception will be approved or disapproved by the City Council. Once this procedure has been followed, provide the documentation to this office.

CN/nc

cc: Tom Bonn, Cheyenne City Planning, 2101 O'Neil Avenue, Cheyenne, WY 82001

03.01

8-9

Water Quality Division  
Groundwater Section  
Permit Application Review

Application Number 85-380R

Date Submitted For Review 8-9-85

Name and Location of Facility Intermountain Truck & Equipment Co.  
701 E 1st St  
Cheyenne

I have reviewed the plans and specifications with regard to all aspects of ground-water quality and find the following:

- No Comment. The submittal is consistent with current ground-water protection procedures and requirements.
- Comments attached.

Signed Phil Pucel

Title Eng

Date 8-9-85

Approved 8/9/85  
(Date)

gjm  
(Signed)  
Groundwater Control Supervisor



*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Christian Norman  
FROM: Phil Pucel *Phil*  
DATE: August 9, 1985  
SUBJECT: 85-380R, Intermountain Truck & Equipment Co., 701 East 1st Street, Cheyenne, WY, Application for a Permit to Construct a Concrete Evaporative Pond and Holding Tank

The following comments refer to comments #7 and #8 in the July 17, 1985 review and the correlative responses from the applicant.

7. The disposal destination for fluids and contaminated soils should be reported.
8. The concrete holding tank should be inspected semi-annually for cracks and deterioration of the waterproof coating. The DEQ should be notified by letter of the date of inspection and the findings of the inspection. Any necessary repairs should be implemented as soon as problems are discovered.

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Intermountain Truck & Equipment Co., Laramie Co.

ARCHITECT OR ENGINEER: Don Hopkins, Don Hopkins & Assoc.  
216 E. 17th St., Cheyenne, WY 82001

APPLICANT: Jack Ruhter, Intermountain Truck & Equipment Co.  
701 E. 1st St., Cheyenne, WY 82007

WATER QUALITY DIVISION REFERENCE NUMBER: 85-380

REVIEWING ENGINEER: *Christian G. Norman*  
Christian G. Norman, Phil Pucel and Thomas S. Norman

DATE OF REVIEW: July 17, 1985 *Phil Pucel TSN*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The submitted plans should be signed/sealed by a registered engineer.
2. A plan detail should be included to show the location of the new facility.
3. The interior slopes of the bank surrounding the pond shall be no steeper than 3 horizontal to 1 vertical.
4. Is the pond protected from structural damage during the 100 year flood event?
5. Based on the expected volume of wastewater, annual rainfall and evaporation rates the pond will have to be pumped 4-5 times per year. When this pumping is done where will the liquid waste be disposed of? A letter of verification from the local receiving, denoting acceptance of the washwater generated is required with the application.
6. Has the variance required from the City of Cheyenne been obtained? If so, provide a copy to this office.
7. The Department of Environmental Quality shall be informed of the date and time for removal of the old pond so that personnel may observe the extent of contaminated soils. All oil, contaminated fluids and contaminated soils should be removed and disposed of in an EPA approved facility. Clarify the destination of the excavated wastes. It is anticipated that a vacuum truck will be used to recover oily waste fluids in and around the pond as excavation proceeds.
8. It is assumed that the bottom of the proposed facility will be below or very close to the water table. Since settlement and expansion cracks are likely, the facility is expected to leak. A leak detection trench/sump system or a well network is required to monitor leakage. Monitoring parameters can be established upon evaluation of background conditions and pond contents.

- 
9. At what level will the pond be pumped out? What is the total depth of the pond?  
This is not shown on the plans.
  - 10.° Unless documentation can show that the facility is not essential for Intermountain Truck & Equipment Co., two cells are required in the holding pond.

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 85-380

DATE SUBMITTED FOR REVIEW 7-12-85

NAME AND LOCATION OF FACILITY Intermountain Truck and Equipment  
701 E 1st Street  
Cheyenne  
S. 5 T 13N R66W Laramie Co

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

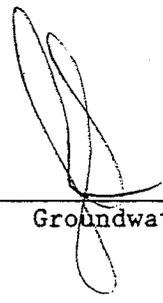
- ( ) No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- (X) Comments attached.

SIGNED Phil Puel

TITLE Engr

DATE July 16, 1985

ACCEPTED FOR RECORD \_\_\_\_\_  
(Date)

  
\_\_\_\_\_  
Groundwater Control Supervisor

MEMORANDUM

TO: Chris Norman  
FROM: Phil Pucel *Phil*  
DATE: July 16, 1985  
SUBJECT: Intermountain Truck & Equipment, 701 E. 1st St., Cheyenne, S5, T13N, R66W, Laramie Co., Concrete Holding Pond for Oily Wastes, DEQ/WQD Ref. No. 85-380

Remedial Action

DEQ should be informed of the date and time for removal of the old pond so that personnel may observe the extent of contaminated soils. All oil, contaminated fluids and contaminated soils should be removed and disposed of in an EPA-approved facility. The destination of excavated wastes should be clarified. It is anticipated that a vacuum truck will be used to recover oily waste fluids in and around the pond as excavation proceeds.

Facility Monitoring

It is assumed that the bottom of the proposed facility will be below or very close to the water table. Since settlement and expansion cracks are likely, the facility is expected to leak. A leak detection trench/sump system or a well network should be installed to monitor leakage. Monitoring parameters can be established upon evaluation of background conditions and pond contents.

PP/nc

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-381R

MA 14542

Rock River Water Distribution Improvements  
(Name of Facility)

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

Town of Rock River

P.O. Box 280

Rock River, WY 82083

to construct, install, or modify a municipal water distribution system facility according to the procedures and conditions of the application No. 85-381R. The facility is located in Section 6, T20N, R76W in the County of Albany, 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.

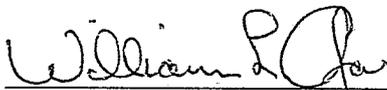
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

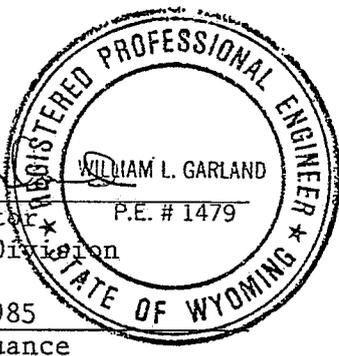
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

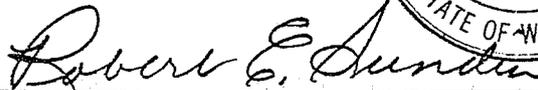
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

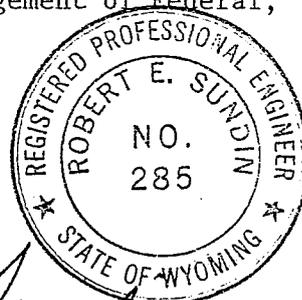
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division  
P.E. # 1479  
July 30, 1985  
Date of Issuance



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



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

cc: Jim I. Cavalli  
Banner Associates, Inc.  
P.O. Box 550  
Laramie, WY 82070

7-17

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Rock River Distribution System, Albany Co.

ARCHITECT OR ENGINEER: Jim Cavalli, Banner Associates, Inc.  
P.O. Box 550, Laramie WY 82070

APPLICANT: Town of Rock River  
P.O. Box 280, Rock River, WY 82083

WATER QUALITY DIVISION REFERENCE NUMBER: 85-381

REVIEWING ENGINEER: Thomas S. Norman *TSN*

DATE OF REVIEW: July 15, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The seal and/or signature of the professional engineer must be directly on the plans.
2. Another valve is required on the southern portion of the water line. Regulations require a valve at no more than 1 block or 800 foot intervals.
3. Blue Brute only comes in Class 100, 150 or 200. "Schedule 180" does not make any sense.
4. The depth of cover was not specified.
5. The supplementary information as required in Section 301.07(3) of the Public Works Specifications was not submitted.

TSN/nc

PERMIT TO CONSTRUCT

8/28  
MA 14542

- New  
 Renewal  
 Modified

Permit No. 85-382R  
SEE CONDITION ON BACK

Diversion Dam Rest Area  
(Name of Facility)

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

Wyoming Highway Department

P.O. Box 2108

Cheyenne, WY 82002

to construct, install, or modify a septic tank system with leach bed disposal facility according to the procedures and conditions of the application No. 85-382R. The facility is located in Section 16, 21, T3N, R2W in the County of Fremont, 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.

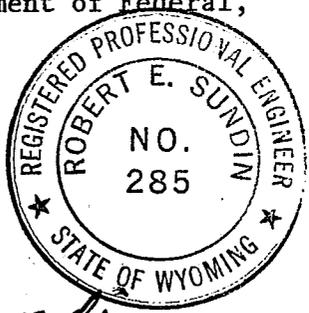
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 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 L. Garland*  
Administrator # 1479  
Water Quality Division  
August 26, 1987  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

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

Condition to Permit to Construct

The permittee shall notify Ray Price, Fremont County Planner, Room 200, County Courthouse, Lander, WY 82520, phone 332-5371, of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.

cc: Ray Price, Fremont County Planner

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Diversion Dam Rest Area

ENGINEER: Donald L. Armstrong, Consulting Engineer  
625 E. Madison, #5  
Riverton, WY 82501

OWNER: State of Wyoming, Highway Dept.  
P.O. Box 2108  
Cheyenne, WY 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 85-382

REVIEWING ENGINEER: Steven P. Gerber, P.E. *SPG*

DATE OF REVIEW: July 19, 1985

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

1. Explain how wastewater flow rates were determined for the restroom facility and RV dump station.
2. Sewer pipe is not specified. Septic tank inlet and outlet pipes shall be cast or ductile iron or schedule 40 PVC and shall extend past the septic tank excavation to solid ground.
3. Specify the distance from the top of the liquid and the bottom of the septic tank cover. This distance must be at least 20 percent of the liquid depth.
4. A length to width ratio is not specified for the mobile home septic tank. It shall be no less than 2 to 1.
5. Access must be provided to both the inlet and outlet devices in all septic tanks.
6. Submit one additional copy of the engineer's design report.

Submit the requested information and revised drawings in triplicate. If you have any questions do not hesitate to contact me.

SG/jw  
copy: Plans (3)  
File (2)

*ABC*



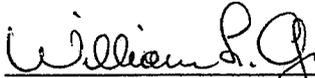
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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, Wyoming 82520; telephone, 332-3144.

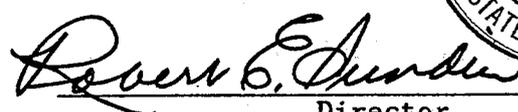
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
August 12, 1985  
Date of Issuance



  
Director  
Dept. of Environmental Quality



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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Cody Watermain Extension - 24th Street

ENGINEER: Graham, Dietz & Associates  
ATTN: Darvin Dietz  
P.O. Box 338  
Cody, WY 82414

OWNER: City of Cody  
1338 Rumsey Avenue  
Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: 85-~~357~~383

REVIEWING ENGINEER: Steven P. Gerber, P.E. *SPG*

DATE OF REVIEW: July 19, 1985

ACTION: Not authorized.

COMMENTS:

A review of the above referenced project has been completed. The following items must be addressed and/or resolved before a permit can be issued:

1. Verify that the system will provide water at a minimum pressure of 20 psi under all conditions of flow and 35 psi under normal flow conditions.
2. Valves shall be provided on watermains so that inconvenience and sanitary hazards will be minimized during repairs. At least three valves should be located at the intersection of the proposed 6 inch main and the 4 inch existing main.

Submit the requested information and revised drawing in triplicate. If you have any questions do not hesitate to contact me.

SG/jw  
copy: Plans (3)  
File (2)

*ABC*



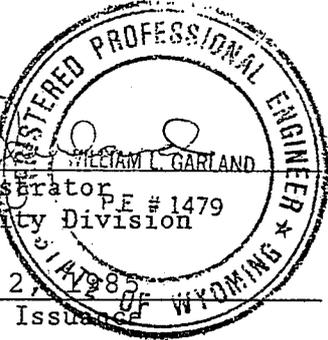
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

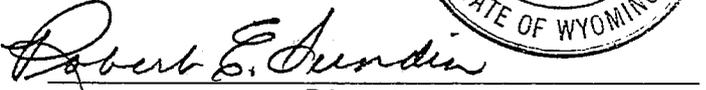
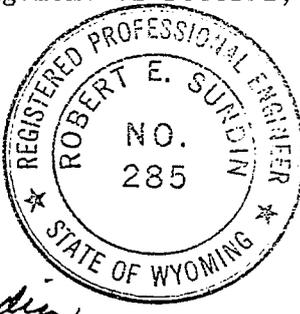
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 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 L. GARLAND  
Administrator  
Water Quality Division  
PE # 1479  
August 27, 1985  
Date of Issuance  


  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  


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

Take 

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Bairoil Water Tank - Phase I

ENGINEER: Robert C. Hartley  
R.C.H. & Associates  
P.O. Box 1659  
Glenrock, WY 82637

OWNER: Town of Bairoil  
P.O. Box 58  
Bairoil, WY 82322

WATER QUALITY DIVISION REFERENCE NUMBER: 85-384

REVIEWING ENGINEER: Bill Locke, P.E. 

DATE OF REVIEW: July 24, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. The following items must be addressed before a permit to construct will be issued:

1. The operation of the proposed water storage tank in conjunction with the existing water storage tanks is confusing. How do the operating water elevations in all of the storage tanks compare? What controls the flow of water into the proposed tank? What provisions are made so as not to overflow the proposed and/or existing storage tanks?

2. Profiles of all water lines showing locations of intersecting pipelines are required.

3. A cross sectional drawing of the trench showing pipe bedding is required.

4. Include a discussion with calculations showing how the proposed tank size was determined.

5. The proposed water storage tank should be supplied and installed in accordance with AWWA D100-84.

6. Disinfection of the water storage tank should be in compliance with AWWA D105-80 not AWWA 102-64.

Review of Plans & Specs.  
Ref. No. 85-384  
Page Two

7. Revised plans and specifications should be submitted in triplicate to this office.

Should you have any questions or comments, please contact either Jack Bedessem or myself.

BL/jw

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-385

MA 14542

Spring and 4th Street Water Main Replacement  
(Name of Facility)

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

Town of Saratoga

P.O. Box 486

Saratoga, WY 82331

to construct, install, or modify a public water supply distribution system facility according to the procedures and conditions of the application No. 85-385. The facility is located in Section 11, T17N, R84W in the County of Carbon, 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.

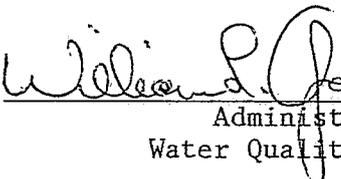
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

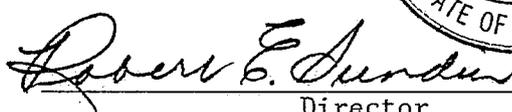
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 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 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. GARLAND  
Administrator  
Water Quality Division  
P.E. # 1479  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF WYOMING

  
\_\_\_\_\_  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  
REGISTERED PROFESSIONAL ENGINEER  
NO. 285  
STATE OF WYOMING

July 30, 1985  
Date of Issuance

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

cc: Paul McCarthy  
P.O. Box 370  
Saratoga, WY 82331



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 16, 1986

Forest Oil Corporation  
821 17th Street, Suite 700  
Denver, CO 80202

To whom it may concern:

Your statewide permit number 85-386R, for small wastewater facilities, contains a condition requiring the notification of the appropriate county or state agency prior to the installation or abandonment of facilities authorized by the permit.

A review of state and county records indicates that very few of these facilities are being reported. It is important that these facilities be reported on a regular basis. County governments have agreed to the use of statewide permits on the condition that they be properly notified. If the statewide permitting system is not responsive to the needs of the counties, the state will not be able to issue statewide permits and it will be necessary to obtain permits for such facilities with the individual counties.

In order to address this problem you are requested to do the following:

1. Provide this office a list and location of all facilities constructed under your statewide permit.
2. Indicate the present status of each facility, i.e., operational or abandoned.
3. Indicate whether or not your wish to maintain the statewide permit in an active status.
4. Provide the required notification to both the appropriate county and state agency for all future facilities.

Sincerely yours,

A handwritten signature in cursive script that reads "Lawrence Robinson".

Lawrence Robinson  
Engineering Supervisor

LR/nc

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-386R  
 SEE CONDITIONS ON BACK  
 MA 14542

Forest Oil Corporation Statewide Rig Toilet  
 (Name of Facility)

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

Forest Oil Corporation  
821 17th Street, Suite 700  
Denver, CO 80202

to construct, install, or modify a sewage hole or holding tank facility according to the procedures and conditions of the application No. 85-386R. The facility is located Statewide 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.

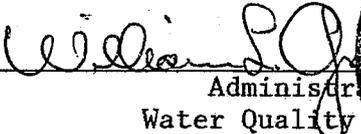
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

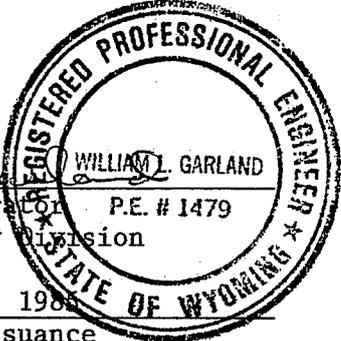
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

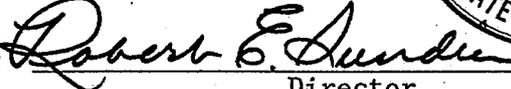
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

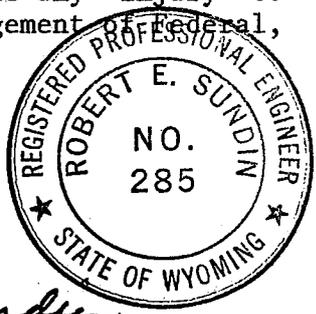
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

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

  
WILLIAM L. GARLAND  
P.E. # 1479  
STATE OF WYOMING

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

  
REGISTERED PROFESSIONAL ENGINEER  
ROBERT E. SUNDIN  
NO. 285  
STATE OF WYOMING

August 12, 1988  
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #85-386R

1. The permittee shall notify the appropriate county or state agency prior to the installation, removal or abandonment of any facility authorized by this permit. The appropriate agency for each county is indicated in the attached list. Notification shall be by phone with a follow-up written notice. Upon abandoning the site, the facility will be removed, disposed of, or left in place in a condition rendering the site safe for the public. Any waste from the facility shall be disposed of only in areas and in a manner approved by the appropriate agency. Upon request, the permittee shall allow authorized representatives of the local agency or the State to have access to the authorized facility for the purpose of conducting an inspection to determine compliance with the provisions of this permit.
2. Sewage holes may only be installed if the depth to groundwater is 40 feet or more. The sewage hole may be no greater than 20 feet deep.
3. The soils types and depth to groundwater shall be reported to appropriate agency for each county prior to installation.
4. Soils with percolation rates less than 1 minute/inch and greater than 60 minutes/inch are not acceptable.

cc: E.R. Haymaker, Haymaker & Assoc., 1709 S. Boxelder, Casper, WY 82601  
Jake Strohmman

AGENCIES RESPONSIBLE FOR SMALL WASTEWATER PERMITS

1. Albany County  
Albany County Planning Office  
405 Grand Avenue  
Laramie, WY 82070  
Phone: (307) 721-5188
2. Big Horn County  
Big Horn County Engineer  
P.O. Box 31  
County Courthouse  
Basin, WY 82410  
Phone: (307) 568-2358
3. Campbell County  
Campbell County Engineer  
500 South Gillette Avenue  
Gillette, WY 82716  
Phone: (307) 682-1970
4. Carbon County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
Herschler Bldg. - 4th West  
Cheyenne, WY 82002  
Phone: (307) 777-7781
5. Converse County  
Converse County Sanitarian  
County Health Department  
530 Oak  
Douglas, WY 82633  
Phone: (307) 358-2536
6. Crook County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457
7. Fremont County  
Fremont County Planner  
Room 200, County Courthouse  
Lander, WY 82520  
Phone: (307) 332-5371
8. Goshen County  
Goshen County Sanitarian  
P.O. Box 1132  
County Courthouse  
Torrington, WY 82240  
Phone: (307) 532-5002
9. Hot Springs County  
Hot Springs County Planner  
County Courthouse  
Thermopolis, WY 82443  
Phone: (307) 864-2732
10. Johnson County  
Johnson County Sanitarian  
County Courthouse  
Buffalo, WY 82834  
Phone: (307) 684-7555
11. Laramie County  
Laramie County Environmental Health  
1700 Snyder Avenue  
Cheyenne, WY 82001  
Phone: (307) 638-8545
12. Lincoln County  
Office of Planning and Development  
P.O. Box 414  
Afton, WY 83110  
Phone: (307) 886-3825
13. Natrona County  
Environmental Health Division  
Natrona County Health Department  
1200 East 3rd  
Casper, WY 82601-2990  
Phone: (307) 235-9316
14. Niobrara County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457

15. Park County  
Park County Planning Coordinator  
P.O. Box 160  
Cody, WY 82414  
Phone: (307) 587-2208
16. Platte County  
Platte County Sanitarian  
P.O. Box 55  
Wheatland, WY 82210  
Phone: (307) 322-9571
17. Sheridan County  
Sheridan County Engineer  
P.O. Box 612  
Sheridan, WY 82801  
Phone: (307) 672-3426
18. Sublette County  
Sublette County Planner  
P.O. Box 506  
Pinedale, WY 82941  
Phone: (307) 367-4375
19. Sweetwater County  
Sweetwater County Sanitarian  
205 East Railroad Ave.  
Green River, WY 82935  
Phone: (307) 875-2611 Ext. 278
20. Teton County  
Teton County Sanitarian  
P.O. Box 1727  
Jackson, WY 83001  
Phone: (307) 733-3959
21. Uinta County  
Uinta County Engineer  
225 9th Street  
Evanston, WY 82930  
Phone: (307) 789-1780 ext. 318
22. Washakie County  
Washakie County Planner  
County Courthouse  
Worland, WY 82401  
Phone: (307) 347-2741
23. Weston County  
District Supervisor  
Water Quality Division  
Department of Environmental Quality  
2161 Coffeen Avenue  
Sheridan, WY 82801  
Phone: (307) 672-6457

Review of Plans and Specifications

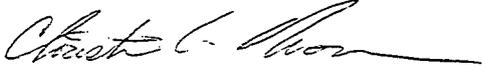
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Forest Oil Corporation Statewide Rig Toilet

ARCHITECT OR ENGINEER: E.R. Haymaker, Haymaker & Assoc.  
1709 S. Boxelder, Casper, WY 82601

APPLICANT: Forest Oil Corp.  
821 17th Street, Suite 700, Denver, CO 80202

WATER QUALITY DIVISION REFERENCE NUMBER: 85-386R

REVIEWING ENGINEER: Christian G. Norman 

DATE OF REVIEW: July 31, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Use of a sewage hole will require a complete subsurface investigation prior to installation. This investigation will include a soils survey, groundwater survey and installation of 3 monitoring wells, 1 upgradient and 2 downgradient. The groundwater survey will include:

Background Groundwater Quality

Seasonally High Groundwater Level	Cadmium
Total Dissolved Solids	Chromium
Sulfate	Copper
Chloride	Iron
Fluoride	Lead
Nitrate Nitrogen	Manganese
Ammonia Nitrogen	Mercury
pH	Selenium
Arsenic	Silver
Barium	Zinc

Once operation of the system has started, the following parameters shall be monitored quarterly:

Operation Groundwater Quality

Static Water Level	Nitrate Nitrogen
Total Dissolved Solids	Ammonia Nitrogen
Chloride	pH

These tests will be required for each sewer hole installed.

If the depth to groundwater is determined to be 40 feet below the surface or lower, a sewage hole may be installed without the above investigation.

2. If a septic tank is installed prior to a seepage pit then only depth to seasonally high groundwater, bedrock, and percolation data will be required in lieu of a groundwater investigation.
3. How will the depth to seasonally high groundwater be determined? Will a 24 foot hole be drilled then backfilled to 20 feet?
4. What is the basis for the design flow of 80 GPD? Explain. How many people will be using the facility and what is the primary use of the facility? The design flow should be justified. Design flows must be consistent with Table 1 of our regulations.
5. Park County should be changed to Platte County on page 1.
6. Seepage pits require drain rock to be installed to prevent sloughing and caving in of the sides. An exemption is required to install the pit without the drain rock. This exemption may be approved on the state level due to the availability of equipment, however some counties may still require the drain rock and their regulations would govern.
7. In order to issue a statewide permit for this type of system, each county will have to be contacted by the Department of Environmental Quality, Water Quality Division. If possible, the Department requests that Forest Oil change their statewide application to specific counties.
8. At the design flow of 80 gpd, a 20 foot deep seepage pit would be suitable only in soils with a percolation rate less than 10 minute/inch. A table of hole depth or number of holes versus percolation rate should be included.
9. Soils with percolation rates less than 1 minute/inch and greater than 60 minute/inch are not acceptable.

CN/nc

7-18-85

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Forest Oil Corporation Statewide Rig Toilet

ARCHITECT OR ENGINEER: E. R. Haymaker, Haymaker & Assoc.  
1709 S. Boxelder, Casper, WY 82601

APPLICANT: Forest Oil Corp.  
821 17th St., Suite 700, Denver, CO 80202

WATER QUALITY DIVISION REFERENCE NUMBER: 85-386

REVIEWING ENGINEER: Christian G. Norman 

DATE OF REVIEW: July 17, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. What is the design flow?
2. If a holding tank is required at certain locations, what are the specifications of the tank. The minimum required specifications can be found in Chapter XI section 43 of the Wyoming Water Quality Rules and Regulations. Before installing a holding tank a letter of verification from the local receiving agency must be submitted.
3. Use of this type of disposal system will require a groundwater investigation prior to installation to establish the site feasibility. If a septic tank is installed prior to the disposal system, this can be permitted as a seepage pit without a groundwater investigation.
4. Twenty-three copies of the plans and specifications shall be provided to this office for distribution to county offices.
5. Prior to installation of any such facilities, the county authorities shall be notified and provided with percolation data and site information.



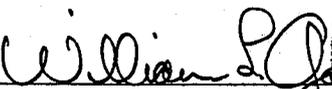
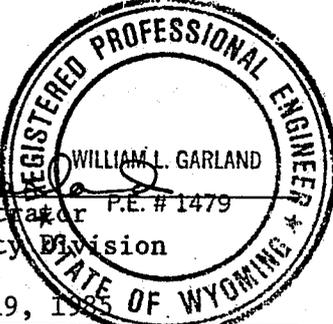
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 301, 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.

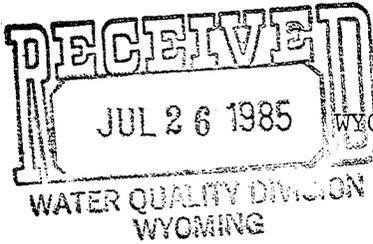
AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator P.E. # 1479  
Water Quality Division  
  
August 19, 1985  
Date of Issuance

  
Director  
Dept. of Environmental Quality  


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

xc: Terry L. Titus  
Worthington, Lenhart,  
Carpenter and Johnson, Inc.  
632 South David  
Casper, WY 82601



REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
2161 COFFEEN AVE., SUITE 601  
SHERIDAN, WYOMING 82801

PROJECT: Kinnear and Elm Street Sanitary Sewer  
Extension, Edgerton, Wyoming

ARCHITECT OR ENGINEER: Terry Titus  
Worthington, Lenhart, Carpenter and Johnson, Inc.  
632 South David  
Casper, Wyoming 82601

WATER QUALITY DIVISION  
REFERENCE NUMBER: 85-387

REVIEWING ENGINEER: Susan Holmes *SH*

DATE OF REVIEW: July 24, 1985

ACTION: Not Authorized

COMMENTS:

- 1) An engineering design report should be submitted which identifies the type of development the extension will serve and expected flow rates. Will there be any significant impact on downstream facilities?
- 2) A letter from the Town of Edgerton should be submitted that states that they are willing and able to accept and treat the wastewater from the extension.



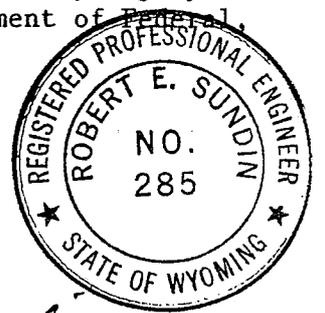
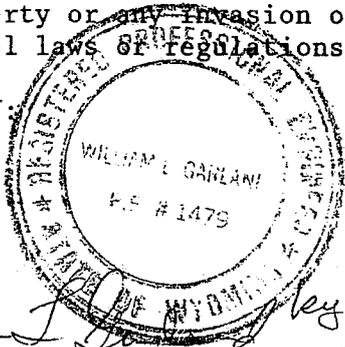
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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AUTHORIZED BY:



*William L. Garland*  
\_\_\_\_\_  
Administrator  
Water Quality Division

*Robert E. Sundin*  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

July 17, 1985

Date of Issuance

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

xc: Doyl M. Fritz  
Western Water Consultants  
P.O. Box 3042  
Sheridan, WY 82801

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-389

*MA 14542*

COAL CREEK MINE SEDIMENT TRAP ST-1, ST-2, ST-3  
(Name of Facility)

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

Thunder Basin Coal Company  
P.O. Box 406  
Wright, Wyoming 82732

to construct, install, or modify a sediment control

facility according to the procedures and conditions of the application No. 85-389. The facility is located in Sec. 18, T.74N., R.70W.

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 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

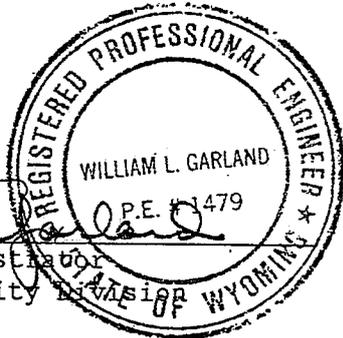
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

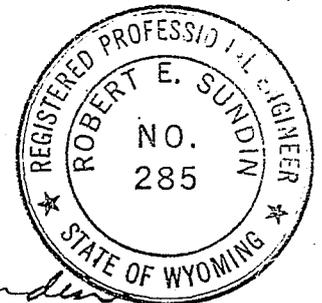
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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. Garland*  
Administrator  
Water Quality Division



*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

July 25, 1985  
Date of Issuance

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

xc: Doyl Fritz  
Western Water Consultants  
P.O. Box 3042  
Sheridan, WY 82801



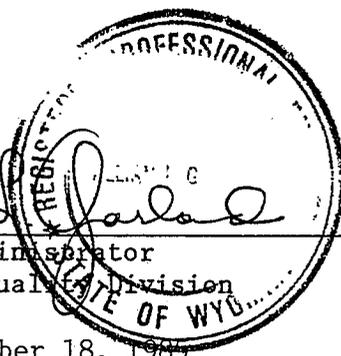
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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, Wyoming 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:

A circular seal for a Professional Engineer in the State of Wyoming. The seal contains the text "PROFESSIONAL ENGINEER" at the top, "STATE OF WYOMING" at the bottom, and "REGISTERED" on the left side. The seal is stamped over the signature of William J. Jarbo.  
William J. Jarbo  
Administrator  
Water Quality Division  
STATE OF WYOMING  
September 18, 1985  
Date of Issuance

Robert Wood  
Director  
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Rolling Hills First Addition - Water

ENGINEER: Elmer Kuball  
Rosendahl & Associates  
1360 North Main  
Sheridan, WY 82801

OWNER: Herb Kohl  
825 N. Jefferson St.  
Milwaukee, WI 53202

WATER QUALITY DIVISION REFERENCE NUMBER: 85-390

REVIEWING ENGINEER: Bill Locke, P.E. *BL*.

DATE OF REVIEW: July 31, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. The following items must be addressed before a permit to construct will be issued:

1. The City of Kemmerer must provide a letter stating that they will accept this water distribution system upon completion of construction, and that the existing City facilities are capable of producing an adequate volume of water to service this area.

2. In reviewing the waterline profiles, it is evident that there are several areas where entrapped air may become a problem. Please address what provisions will be made in the design and/or operation to ensure this does not become a problem.

3. The six degree per 20 L.F. joining pipe deflection on Sunlight Circle (Sheet 4) is in excess of some pipe manufacturers recommendations. Additional pipe fittings should be used here.

4. The pressure classifications of the various types of pipe should be specified.

5. Both the plans and specifications must be signed by a Wyoming Professional Engineer

Should you have any questions or comments, please contact Jack Bedessem or myself.

BL/jw

*ABC*



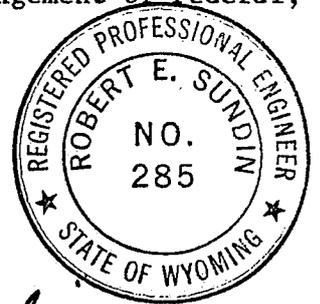
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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, Wyoming 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 L. Garland*  
\_\_\_\_\_  
Administrator  
Water Quality Division  
PE #1479  
August 8, 1985  
Date of Issuance

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The center of the seal contains the name "WILLIAM L. GARLAND" and the number "PE #1479".

*Robert E. Sundin*  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION  
210 LINCOLN  
LANDER, WYOMING 82520  
PHONE: (307) 332-3144

PROJECT: Afton Water & Sewer Extension

ENGINEER: Kim Lobdell  
Jack Noblitt & Associates  
1920 Thomas Avenue, Suite 620  
Cheyenne, WY 82001

OWNER: Town of Afton  
P.O. Box 387  
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: 85-391

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: July 26, 1985

ACTION: Not authorized.

COMMENTS:

A preliminary review of the above plans and specifications has been completed. The following items must be addressed before a permit to construct will be issued:

1. There is some discrepancy as to the diameter of the sewer collection line. On the application form and on the profile, sheet 4 of 6, it is referred to as 6" diameter. Every place else, it is called out as an 8" diameter. Please verify and make the necessary changes.

2. Sheet 4 of 6. The plan view at the top of the page calls out three sets of invert and rim elevations on the existing 8" sewer main. Please clarify what these elevations are identifying.

3. Sheet 4 of 6. The plan view calls for the installation of a swing check valve on the new 8" sewer main. What is the purpose for this check valve and how will it be attached to ASTM D-3034 PVC sewer pipe.

4. Provide a profile of the waterline showing location of all intersecting utilities and depth of bury of new waterline.

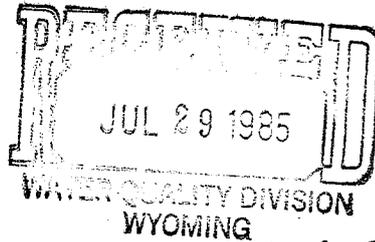
5. Revised copies of the plans and/or specifications should be submitted in triplicate to this office.

Should you have any questions or comments, please contact either Jack Bedessem or myself.

BL/jw

*ABC*

THE STATE OF WYOMING



*Norma*  
87A 14542

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

July 26, 1985

H.M. Meduna  
Texaco, Inc.  
P.O. Box 1629  
Rock Springs, WY 82901

RE: Temporary Produced Water Holding Pond, 85-392  
SW $\frac{1}{4}$ SW $\frac{1}{4}$ , Sec. 17, T19N, R97W, Sweetwater County, Wyoming

Dear Mr. Meduna:

On June 11, 1985 I gave Jim McKenzie verbal permission to begin construction on a temporary produced water holding pond. Verbal permission was given, based on specific on-site characteristics, construction methods (20 mil PVC liner), and the critical necessity for the holding pond.

On June 20, 1985 I inspected the facility and installation of the liner. During this inspection the field seam was reworked because of an improper seal. On July 3, 1985 I made a follow-up inspection of the facility.

On July 16, 1985 this office received an application for a "Permit to Construct" the temporary facility. A "Permit to Construct" cannot be issued owing to the fact that the facility has already been built. The Wyoming Department of Environmental Quality/Water Quality Division accepts this facility based on the following conditions:

\* Conditions of Acceptance \*

1. No hazardous wastes as defined by the U.S. EPA or State of Wyoming shall be placed on this facility. Before any wastes, other than those specified by this permit, may be disposed of in this facility, authorization must be obtained from DEQ/WQD.

2. In the event that seepage or a leak is detected or suspected, the DEQ/WQD must be notified immediately. [DEQ/Water Quality Division, 210 Lincoln Street, Lander, Wyoming, 82520, 307-332-3144] Investigative or mitigative measures must be accepted by the DEQ/WQD.

3. This DEQ/WQD acceptance is valid only for a temporary facility. For this situation, temporary being three months or less from the time of construction, 6-11-85. If this facility is to be in operation for a longer period, acceptance shall be obtained and the facility modified as per DEQ/WQD requirements.

H.M. Meduna  
July 26, 1985  
Page Two

4. When this facility is removed from operation it must be completely dewatered and solids disposed of in a manner acceptable to the DEQ/WQD. Reclamation of the site shall be completed according to BLM guidelines.

Please retain this letter as verification that this temporary facility has been accepted "As Built." If you have any questions, please feel free to contact me.

Sincerely,



Jack Bedessem  
Area III Supervisor

JB/jw  
copy: Cheyenne DEQ/WQD  
Don Judice, BLM, Rock Springs  
File (6)



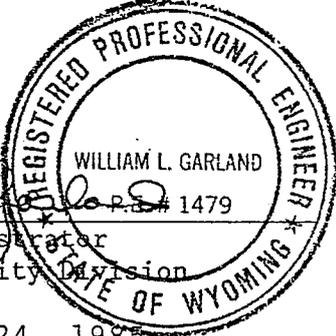
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

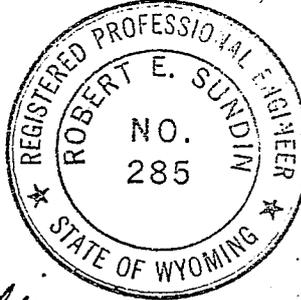
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 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 L. Garland*  
P.E. # 1479  
Administrator  
Water Quality Division  
STATE OF WYOMING  
July 24, 1985  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-394R

MA 14542

2 mg East Water Storage Tank Improvements  
(Name of Facility)

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

Town of Douglas

130 South Third

Douglas, WY 82633

to construct, install, or modify a publicly owned water storage facility according to the procedures and conditions of the application No. 85-394R. The facility is located in Section 8, T32N, R71W in the County of Converse, 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.

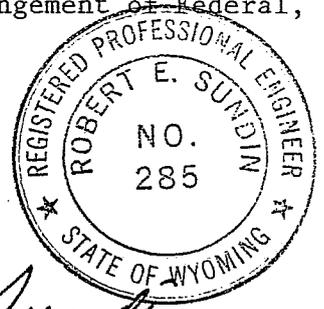
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

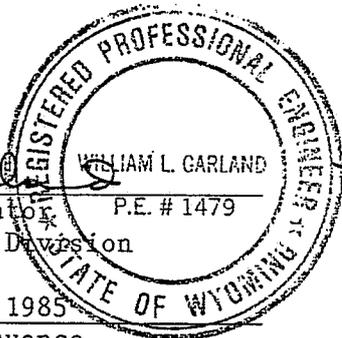
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002; telephone, 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 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. Garland*  
\_\_\_\_\_  
Administrator, P.E. #1479  
Water Quality Division  
\_\_\_\_\_  
August 27, 1985  
Date of Issuance

*Robert E. Sundin*  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

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

cc: Darryl D. Alleman  
ARIX  
102 South 5th Street  
Laramie, WY 82070

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: 2 mg East Water Storage Tank Improvements, Converse Co.

ARCHITECT OR ENGINEER: Darryl D. Alleman, ARIX  
102 So. 5th Street, Laramie, WY 82070

APPLICANT: Town of Douglas  
130 So. Third Street, Douglas, WY 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 85-394

REVIEWING ENGINEER: Christian G. Norman *Christian G. Norman*

DATE OF REVIEW: July 19, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. What are the specifications at the mesh to be used on the vent and for eave improvements?
2. Does the inside paint system conform to AWWA standard D102?
3. Is discharge from the overflow pipe visible?
4. On the tank site plan, label the line as to inlet or outlet.
5. Roof detail did not show felt, asphalt, and gravel layers.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-395RR

Encampment Water Distribution System  
 (Name of Facility)

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

Town of Encampment

Box 5

Encampment, WY 82325

to construct, install, or modify a public water distribution facility according to the procedures and conditions of the application No. 85-395RR. The facility is located in Section 1, 2, 11 and 12, T14N, R84W in the County of Carbon, 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.

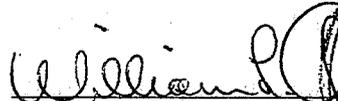
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

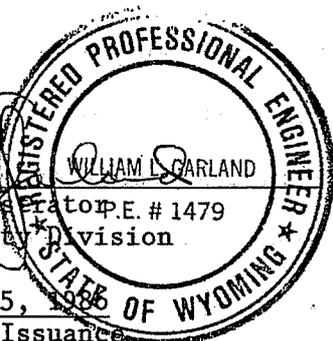
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

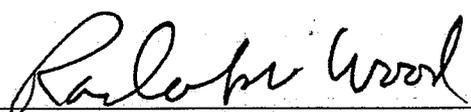
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

The issuance of this permit does not convey any property rights in either real or personal property, or any 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:

  
Admin. # 1479  
Water Quality Division  
March 5, 1986  
Date of Issuance



  
Director  
Dept. of Environmental Quality

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

cc: R. H. Westerfield  
Westerfield Engineering  
Box 456  
Encampment, WY 82325

Review of Plans and Specifications

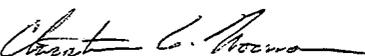
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Encampment Water Distribution System, Carbon County

ARCHITECT OR ENGINEER: R.H. Westerfield, Westerfield Engineering  
Box 456, Encampment, WY 82325

APPLICANT: Town of Encampment  
Box 5, Encampment, WY 82325

WATER QUALITY DIVISION REFERENCE NUMBER: 85-395R

REVIEWING ENGINEER: Christian G. Norman 

DATE OF REVIEW: February 18, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plans should be signed/sealed by an engineer registered in the state of Wyoming.
2. Sheet 8/8, Section VII, air relief valves shall be provided at the high points in the line, STA 1+05, and STA 5+10.

pjb

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 4 West, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Encampment Water Distribution System, Carbon Co.

ARCHITECT OR ENGINEER: R.H. Westerfield, Westerfield Engineering  
Box 456, Encampment, WY 82325

APPLICANT: Town of Encampment  
Box 5, Encampment, WY 82325

WATER QUALITY DIVISION REFERENCE NUMBER: 85-395

REVIEWING ENGINEER: Christian G. Norman *Christian G. Norman*

DATE OF REVIEW: July 18, 1985

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. How will the abandonment of the water lines be accomplished?
2. Show valves, crosses, tees, hydrants, etc. in the profile of the water lines.
3. Blocking - all tees, bonds, plugs and hydrants shall be provided with reaction blocking, tie rods or joints designed to prevent movement. Show the location of any blocks in the plans and profile sheets.
4. Use of the Wyoming Public Works standard specifications warrants that decisions be made regarding material use, methods of construction or other specifications as outlined in the guide to using the Wyoming Public Works standard specifications. The specific decisions that must be made and documented in this project are covered in section 301, and specifically, pipe specifications, depth of cover and supplementary information on disinfection.

CN/nc



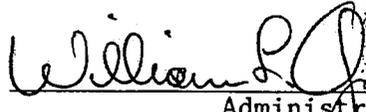
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

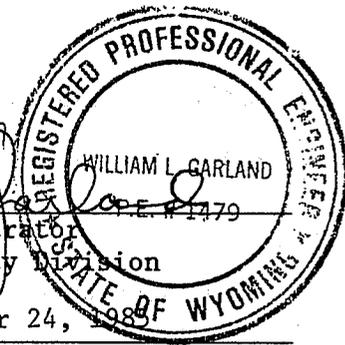
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, 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:

  
Administrato  
Water Quality Division  
September 24, 1988  
Date of Issuance



  
Director  
Dept. of Environmental Quality

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

xc: Engineering, Inc. of Wyoming  
45 East Loucks  
Sheridan, WY 82801

*Norma*

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
2161 COFFEEN AVE., SUITE 601  
SHERIDAN, WYOMING 82801



PROJECT: Water System Improvements, Phase III  
Kaycee, Wyoming

ARCHITECT OR ENGINEER: Bill Mentock  
Engineering, Inc. of Wyoming  
45 East Loucks, Suite 301  
Sheridan, Wyoming 82801

WATER QUALITY DIVISION  
REFERENCE NUMBER: 85-396R

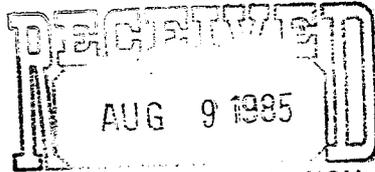
REVIEWING ENGINEER: Susan Fields 

DATE OF REVIEW: September 5, 1985

ACTION: Not Authorized

COMMENTS:

1. The location of the remote readout for the water services should be shown on the plans with a detail of how they are to be mounted.
2. The depth to the meters in the meter pits should be shown on the details.
3. The 3/4 inch services should have 3/4 inch meters, not 5/8 inch meters as are specified.
4. Will the irrigation ditch shown on sheet 7 have water flowing in it during construction? If so, the specifications should address a method of maintaining the flow during the water line installation.



WATER QUALITY DIVISION  
REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
2161 COFFEEN AVE., SUITE 601  
SHERIDAN, WYOMING 82801

PROJECT: Water System Improvements, Phase III  
Kaycee, Wyoming

ARCHITECT OR ENGINEER: Bill Mentock  
Engineering, Inc. of Wyoming  
45 East Loucks, Suite 301  
Sheridan, Wyoming 82801

WATER QUALITY DIVISION  
REFERENCE NUMBER: 85-396

REVIEWING ENGINEER: Susan Holmes *SH*

DATE OF REVIEW: August 7, 1985

ACTION: Not Authorized

COMMENTS:

- 1) Verification must be provided that the proposed improvements can supply water at adequate pressures. Normal operating pressure should be approximately 35 psi, minimum pressure is 20 psi and maximum pressure is 100 psi.
- 2) Water service connections should be shown on the plans. Which services have meter pits? Which services are 3/4", 1-1/2" and 2"? A detail should be added for service connections that do not have a meter pit. A curb stop needs to be specified for these connections.
- 3) The specification for water service connections (Division 6) does not match what is shown in the detail on Sheet 7 of 7, i.e. concrete pit vs. PVC box. Do any of the 1-1/2" or 2" services have meter pits?
- 4) The Phase II plans and the Location Map for the Phase III improvements show the 8" tie is located approximately 160 feet east of where it is shown on Sheet 4 of 7. Where will this connection actually be made?
- 5) Valve locations shown on Line IV, Sheet 4 of 7 are not consistent with locations shown on Sheets 2 of 7 and 3 of 7.
- 6) Is the sanitary crossing at First Street really the only one? Parallel installations should also be shown on the plans, if they exist.
- 7) A pay item for mobilization is discussed in the Special Provisions, yet none is included in the bid schedule.
- 8) Minimum bury depth is called out as 5-1/2 feet in the specs and is shown as 6 feet on the plans.



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.

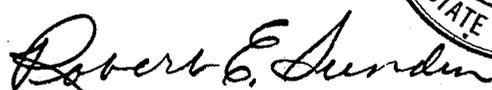
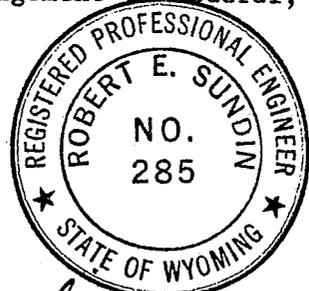
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, 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:

  
\_\_\_\_\_  
Administrative  
Water Quality Division  


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


July 31, 1985  
Date of Issuance

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

xc: Doyl Fritz  
Western Water Consultants  
P.O. Box 3042  
Sheridan, WY 82801

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

*Norma -  
Returned  
Sheridan  
7/30*

APPLICATION NUMBER 85-397

DATE SUBMITTED FOR REVIEW 7-22-85

NAME AND LOCATION OF FACILITY North Antelope Mine  
2A Reservoir  
Campbell Co.

I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- (X) No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- ( ) Comments attached.

SIGNED *Richard J. ...*  
TITLE *Eng. Eval*  
DATE 7-30-85

ACCEPTED FOR RECORD 7/30/85 *ggm*  
(Date) Groundwater Control Supervisor



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 31, 1985

Charles Bartlett  
Robert, Jack, Smith & Associates, Inc.  
P.O. Box 1104  
Rawlins, WY 82301

RE: Bingo Fuel Stop, DEQ/WQD Ref. No. 85-398, Section 22, T21N, R83W,  
Carbon County, Wyoming

Dear Mr. Bartlett:

Under W.S. 35-11-103 c(viii) a public water supply is defined as "any water supply being distributed by twenty (20) or more service connections utilized to furnish water for human consumption either in processing foods or beverages for inhabitants or residences or business establishments." The proposed system for the Bingo Fuel Stop, Sinclair, Wyoming, does not fall under this definition, therefore a permit to construct is not required. However, this system will be monitored by the EPA Drinking Water Branch.

If you have any questions, please contact this office.

Sincerely,

Christian G. Norman  
Engineering Evaluator

CGN/nc

cc: U.S. EPA  
Drinking Water Branch  
One Denver Place  
999 18th Street, Suite 1300  
Denver, CO 80202-2413

**ROBERT JACK SMITH**  
CONSULTING ENGINEERS



**& ASSOCIATES, INC.**  
AND LAND SURVEYORS

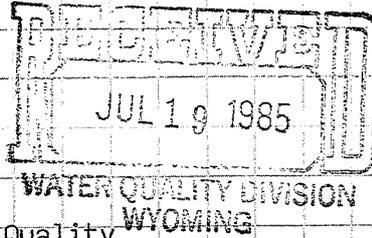
P.O. BOX 1104 RAWLINS, WYOMING 82301

1015 HARSHMAN

PHONE (307) 324-5262

JOB NO. 4547.

July 16, 1985



85-398  
Ref. No.  
85-229  
80-639

Department of Environmental Quality  
Water Quality Division  
Herschler Building  
Cheyenne, WY 82002

Attn: Mr. Thomas Norman

Re: Permit No. 85-229, 4" Drain Line at Bingo Fuel Stop, Sinclair, Wyoming

Dear Mr. Norman,

Due to changes in their water supply arrangements, the Bingo Fuel Stop will not be constructing the Water Storage and Pumping Facilities as shown on the original drawing for the above referenced permit number. Construction will consist of a Water Treatment Facility as shown on the enclosed drawing. The 4" drain line which the permit is for will remain the same.

If you have any questions, please call.

Sincerely,  
Robert Jack Smith & Associates, Inc.

Christine A. Burgess

Principals:  
MARTIN PEDERSEN

REGISTERED PROFESSIONAL ENGINEERS AND LAND SURVEYORS IN WYOMING, COLORADO,  
NEW MEXICO, ARIZONA, UTAH, NEVADA, MONTANA, IDAHO, SOUTH DAKOTA AND NORTH DAKOTA

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 85-399  
 SEE CONDITIONS ATTACHED  
 MA 14542

Bessie Bottoms #1  
 (Name of Facility)

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

Champlin Petroleum

P.O. Box 700

Rock Springs, WY 82901

to construct, install, or modify a drilling fluids reserve pit according to the procedures and conditions of the application No. 85-399. The facility is located in SW1/4 S13, T13N, R121W in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of one (1) year (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.

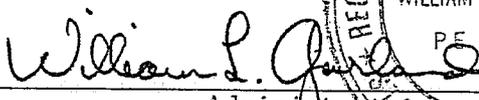
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

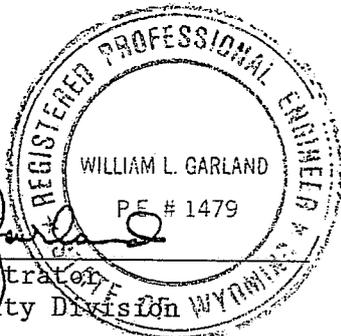
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

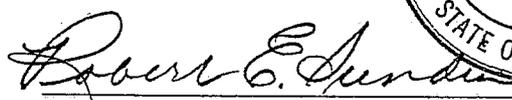
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

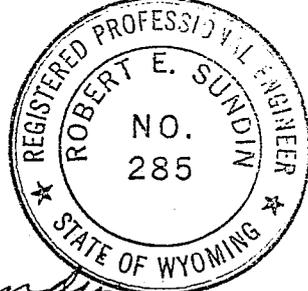
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

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



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



July 24, 1985  
\_\_\_\_\_  
Date of Issuance

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

cc: Jack Bedessem, DEQ/WQD, Lander

This permit authorizes you to dispose of 2,940,000 gallons of wastewater on the Yellow Creek road reconstruction, comprising 38.8 acres, a total liquid application of 2.8 inches.

CONDITIONS TO PERMIT TO CONSTRUCT NO. 85-399

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. After dewatering by land application, the permittee must demonstrate, before backfilling, that the residual solid wastes will remain hydrologically isolated, i.e. by virtue of the surrounding soil matrix or bedrock, or by installation of artificial clay liners and/or caps.

If groundwater intrusion is encountered, an analysis of a composited 4 quart (or liter) mud sample, properly preserved, must be submitted within 1 month of this permit date to the responsible agency personnel (E. J. Fanning).

The sample should be analyzed for the following constituents or parameters:

pH	Lead
TOC	Mercury
EC (electrical conductivity, mmhos/cm @ 25°C)	Nickel
SAR	Selenium
Arsenic	Silver
Barium	Zinc
Cadmium	Oil and grease
Chromium	
Copper	
Iron	

The metals analysis is for total metals. The EP Toxicity test should also be performed on the mud samples for the eight included metals, i.e. arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver.



THE STATE OF WYOMING

7-31-85

MA 14542

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 29, 1985

Mr. Dave Craig  
Pacific Power & Light  
920 S.W. Sixth, 380 PFFC  
Portland, OR 97204

RE: WDEQ/WQD Permit GPC 85-400

Dear Mr. Craig:

Enclosed is the signed permit for the operation of a groundwater tracer injection test at the Jim Bridger Power Plant located in Sweetwater County, Wyoming. Also enclosed are copies of form GPC 7 Which must accompany any submittal of information relevant to this permit to the Water Quality Division. Please note the Signatories Requirement in the permit (Section Q).

Once you have completed the injection test, please submit a follow-up report to the groundwater section of the Water Quality Division.

Thank you for your attention to this matter.

Sincerely,

William L. Garland  
Administrator

WLG/KL/nc  
Enclosures

cc: A. J. Mancini, DEQ/WQD, Cheyenne  
Jack Bedessem, DEQ/WQD, Lander

MA14542

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

GPC 85-400  
Class V

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),

Pacific Power & Light  
920 S.W. Sixth, 380 PFFC  
Portland, OR 97204

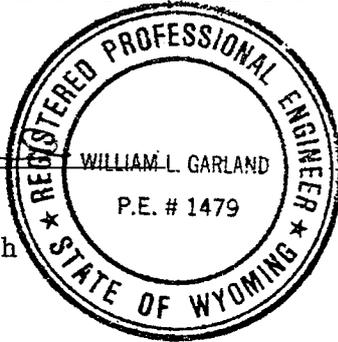
is authorized to operate

a groundwater tracer injection test at the Jim Bridger Power Plant B FGD Pond site located in the SW1/4 NW1/4 Section 23, T21N, R101W, Sweetwater County as a miscellaneous discharge to groundwater

according to procedures and conditions of the application GPC 85-400 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

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



July 23, 1985  
Date

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



July 23, 1985  
Date

A. Discharge (Injection) Zone and Area of Review

The tracer injection zone is confined to the Almond Sandstone over the screened interval of well 585-WA approximately 200 to 280 feet below the ground surface. The area of review is the circular area described as having its center at the injection well 585-WA and a minimum radius of one quarter mile.

B. Groundwater Classification

Groundwater within the area of review has not been used for any domestic, agricultural or livestock uses. All wells located within the area of review are used to monitor groundwater quality associated with waste disposal activities at the Jim Bridger Power Plant. Based on ambient quality, groundwater in the Almond Sandstone in the area is classified as Class III, suitable for livestock use; sulfate 350 mg/l, manganese 0.52 mg/l.

C. Authorized Operations

The permittee is authorized to inject either pentafluorobenzoic acid (PFB) or metatrifluoromethylbenzoic acid (MTFMB) as a tracer test between wells 585-WA and 185-WA.

A maximum of 300 grams of tracer will be poured into the injection well (585-WA) located at a 20-foot radius from the pumping well (185-WA). After pumping has started, water sampling will begin immediately and continue at two hour intervals until all of the tracer is recovered. The duration of the tracer test is estimated to be approximately 15 days.

After the test is completed, the injection and recovery wells will be either used as monitor wells, or abandoned according to the Wyoming Department of Environmental Quality, Water Quality Division, requirements.

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:

Both the injection well and the recovery well will be visually inspected periodically during the test to assure that the pump does not shut off, and that damage to the wells will not occur as a result of sampling procedures.

Upon completion of the tracer test and analysis of test data, a one-time report shall be submitted indicating the status of the operation, any major modifications to the injection procedure, any problems that may have developed, and how they were resolved.

Note "Signatories Requirement" in section Q of this permit.

G. Requirements for Monitoring the Discharge

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

Monitoring of the discharge is not required by this permit.

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 elsewhere in the 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 prior to the issuance of this permit is not required.

Existing regulations do not require public notice of the permit review and 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:

Not required for permit issuance for this discharge.

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.

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.

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:

Upon completion of the tracer test, all of the test wells will either be used as monitor wells, or abandoned according to the specifications contained in Chapter XI, Part G, Section 70, of the Water Quality Division Rules and Regulations.

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.

Not required for permit issuance for this discharge.

O. Special measures the Director finds necessary:

None.

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.

