

REVIEW OF PLANS AND SPECIFICATIONS

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

Reun
JF
86-401

PROJECT: Buffalo Conoco Auto/Truck Stop

ARCHITECT OR ENGINEER: Kevin Krueger, Twin City Testing
662 Cromwell Ave, St. Paul, MN 55114

APPLICANT: Montana Petroleum Marketing, Transwestern 1-Suite 326
404 N 31 St, Billings, MT 59101

WATER QUALITY DIVISION REFERENCE NUMBER: 86-401, Ref. No. 86-037

REVIEWING ENGINEER: Christian Norman, Engineering Evaluator *Christ Norman*

DATE OF REVIEW: October 20, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Three sets of plans and specifications should be submitted with the application.
2. As discussed on the phone (10-17-86), one recovery well should be installed under Ref.No. 86-037. This well will be used to conduct pump tests and collect design data for the restoration system.
3. The plans and specifications must be signed/sealed by an engineer registered in the State of Wyoming.
4. Upon submittal of a more complete design, further review will be conducted.

pjb

cc: Susan Fields, WQD

DEO MEMO

TO: Patti Burns, IRS
FROM: Bob Stittes
DATE: March 14, 1989

SUBJECT: Status of Permit Application 86-401
Buffalo (Cenex) Truck Stop; aka Buffalo Canons
Johnston County, Wyoming

The permit application was for a hydrocarbon recovery system that was reviewed by the WDD and not authorized for construction. The applicant did not address the WDD concerns or resubmit further information under this application number.

The recovery system was later permitted under permit no. 87-435, following changes in consultants and WDD personnel. Presumably permit application 86-401 should be considered withdrawn or cancelled since the facility was constructed.



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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
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September 17, 1987

CERTIFIED

Mr. Doug Kissack
Kissack Water and Oil Service
Box 46
Rozet, WY 82727

RE: 86-402, UIC Class I

Dear Mr. Kissack:

Under authority of section J of the above referenced permit, this permit is hereby amended as follows:

Section C, paragraph 6, which presently reads: "The maximum discharge (injection) pressure shall not exceed 2500 PSIG at the surface." is amended to say: "The maximum discharge (injection) pressure shall not exceed 2000 PSIG at the surface."

The reason for this change is that 2500 PSIG is more than the fracture pressure at the bottom of your injection interval. Your application states that the fracture gradient is .70 PSI per foot of depth or 6017 PSI at 8596 feet. Static water pressure at 8596 feet is 3724 PSI, leaving a surface fracture pressure of 2292 PSIG.

It was never the intent of the Water Quality Division to allow operating pressures to exceed fracture pressures.

This amendment will take effect immediately. The permittee may appeal within 30 days from the date of receipt of this letter to the Environmental Quality Council. Notice of intent to appeal must be received by the Water Quality Division during this same 30 day period.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/RL/nc



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Water Quality Division
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May 21, 1987

Mr. Doug Kissack
Kissack Water and Oil Service, Inc.
Box 46
Rozet, Wyoming 82727

Re: Permit 86-402, Horse Creek Federal #1-8 injection well, Weston County, Wyoming

Dear Mr. Kissack:

Enclosed is a signed final permit authorizing operation of the Horse Creek Federal #1-8 disposal well.

When the draft permit was sent to you, it was accompanied by a letter of transmittal which listed a number of permit requirements. A copy of that previous letter of transmittal accompanies this letter; the listed permit requirements are still relevant. Please recall that new sources of industrial wastes must be identified and approved prior to the start of injection of these wastes; and prior to commencing injection of wastes other than produced water, permittee shall submit complete organic and inorganic chemical analyses of each waste to be injected and receive prior authorization to inject.

The final permit includes four changes from the draft permit. These are (1) a change in the allowed injection volume - from 1,000 to 2,000 BPD total oil-field produced water (a rate or volume in excess of 2,000 BPD requires Water Quality Division approval); (2) the addition of a statement indicating approval of the injection zone by the U.S. Environmental Protection Agency (EPA) on page 2; (3) the addition of a standard Water Quality Division "disclaimer" on pages 8 and 9; and (4) the addition of a statement concerning the injection of hazardous wastes, on page 3. Please note: the injection of any waste defined as hazardous under 40 CFR 261.3 is not authorized unless and until the permittee applies for and receives necessary permits and authorization from the U.S. EPA under the Resources Conservation and Recovery Act (RCRA) program.

Enclosed are two copies of Form 10 for the annual report, and a supply of copies of Form 7 which should accompany the submittal of periodic reports or other information required by the permit.

The annual report should include specific information for the type of waste: produced water as one type, other wastes as other types.

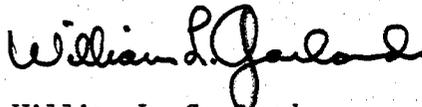
Mr. Doug Kissack
May 21, 1987
Page Two

Any report or information submitted as a permit requirements must be accompanied by a completed Form 7. This includes analytical and other data submitted prior to approval of a new industrial waste for injection.

An adequate pressure test was conducted June 25, 1986, and an absence of fluid movement in vertical channels was demonstrated by logging. Mechanical integrity will have to be demonstrated again no later than 1991, and sooner if required.

At the present time, all reports and submittals required by this permit must be signed by Doug Kissack (a principal executive officer of at least the level of vice-president). Another duly authorized representative (for signing reports) can be designated pursuant to Section Q of the permit.

Sincerely,



William L. Garland
Administrator
Water Quality Division

WLG/AJM/jn

Enclosures

cc: Centennial Engineering, Sheridan (w/permit)
Janie Nelson, OGCC, Casper (w/permit)
Richard Stockdale, SEO, Cheyenne (w/permit)
Paul Osborne, EPA, Denver, (w/permit)
Susan Fields, DEQ/WQD, Sheridan (w/permit)
Jake Strohman, DEQ/WQD, Cheyenne



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Land Quality Division
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Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

March 9, 1987

Mr. Doug Kissack
Kissack Water and Oil Service, Inc.
Box 46
Rozet, Wyoming 82727

RE: Application for injection well permit 86-402R, Horse Creek Federal #1-8, Weston County, Wyoming

Dear Mr. Kissack:

Enclosed is a copy of the draft permit for the operation of the Horse Creek Federal #1-8 disposal well. Please note that the permit states or requires the following:

1. permittee owns the producing oil well, the Federal Jessen 1-5 in the SW, SE S5, T47N, R68W (Section A, page 2);
2. prior to commencing injection of wastes other than produced water, permittee shall submit complete organic and inorganic chemical analysis of each waste to be injected and receive prior authorization to inject from the Water Quality Division (WQD) (pages 2 and 3);
3. new sources of industrial wastes will be identified and approved prior to start of injection of these wastes (page 3);
4. permittee shall sample and analyze water produced from the #1-5 Federal Jessen well before injection of wastes other than produced water commences and provide analytical results to the WQD, and repeat this procedure annually (page 3);
5. permittee is required to monitor the injection and annulus pressure and injection rate continuously (page 3);
6. within 30 days after issuance of the permit, permittee shall submit information which shows how parameters of item 5 above will be recorded if continuous recording devices have not yet been installed, and a plan for installing continuous recording devices or an alternate proposal (page 3);

7. continuous recording devices should be installed within 90 days of permit issuance (page 3) and must be installed and operational within 180 days following permit issuance (page 9); *page 10*
8. monthly operating reports are required and other periodic reports may be required, and must be submitted within 30 days following the end of the reporting period (page 5);
9. mechanical integrity testing requirements are described (page 8);
10. an annual report is required; a form will be provided which requires the reporting of total injection for the period, cumulative injection, and average injection pressure (page 7).

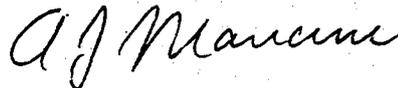
In addition to the specific requirements listed above, the permittee is also required to comply with all other conditions of the permit.

Also note the Signatories Requirement concerning reports.

Please review the draft permit and let us know at your earliest convenience if you recommend any changes or corrections.

When the draft permit is considered acceptable we will make the required public notice.

Sincerely,



A.J. Mancini
Groundwater Control Supervisor
Water Quality Division

AJM/can

Enclosure

cc: Thomas L. Barker (w/encl)
Janie Nelson, OGCC, Casper (w/encl)
Richard Stockdale, SEO, Cheyenne (w/encl)
Paul Osborne, EPA, Denver (w/encl)

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

(X) New (Existing well)

Permit Number:

() Modified

86-402
UIC CLASS I

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),

Kissack Water and Oil Service, Inc.
Box 46
Rozet, WY 82727

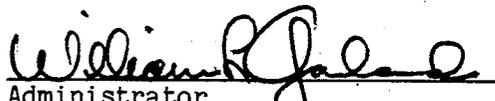
ATTN: Doug Kissack

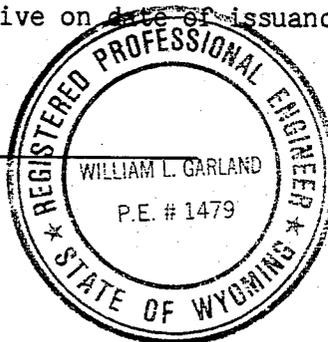
is authorized to operate

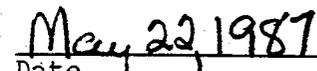
the Horse Creek Federal #1-8 disposal well, in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ S8, T47N, R68W, Weston County, Wyoming as a commercial well for the disposal of oil-field produced water and other industrial wastes

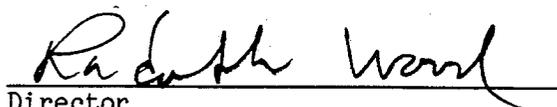
according to procedures and conditions of the application 86-402 and requirements and other conditions of this permit.

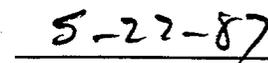
This permit shall become effective on ~~date~~ of issuance.


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




Date


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


Date

A. Discharge (Injection) Zone and Area of Review

The injection zone is within the Minnelusa Formation, and consists of the perforated intervals 8572-8584 and 8595-8596 feet below the surface. Injection and disposal into any other subsurface interval is not authorized without prior approval. Discharge to the surface is not authorized by this permit.

The area of review (AOR) is an area within a one-mile radius of the Horse Creek Federal #1-8 (fixed AOR). Within the AOR are 9 plugged and abandoned oil tests/wells and one producing oil well. The abandoned wells reportedly are properly plugged and will not act as conduits for the escape of injected fluid. The producing well is the Federal Jessen 1-5 in the SW SE S5, T47N, R68W, owned by the permittee.

B. Groundwater Classification

The water in the discharge (injection zone) is class VI:

1. groundwater is located so as to make normal use economically and technologically impractical;
2. groundwater in the receiving formation is associated with accumulations of hydrocarbons;
3. the Horse Creek Federal #1-8 has been used for the injection of oil-field produced water into the Minnelusa Formation since 1982, as previously authorized by the Wyoming Oil and Gas Conservation Commission; the injection zone was approved for the disposal of produced water by the U.S. Environmental Protection Agency when the Commission received primacy for the Underground Injection Control (UIC) program for certain kinds of injection wells (class II) in Wyoming.

C. Authorized Operations

The permittee is authorized to inject into the Minnelusa Formation through perforations at 8572-8584 and 8595-8596 feet below the surface, oil field produced waters (SIC 13) and other industrial wastes. Existing sources of produced water have been identified in the application. New sources will be identified prior to injection.

Potential sources of other industrial wastes, as identified in the application, are:

1. Gillette Radiator: waste fluids produced by steam cleaning and boiling out car and truck radiators (SIC 34), characterized by high concentrations of boron (± 155 ppm).
2. BTM: sump wastes from industrial clean-up operations (SIC 495).
3. Unichem: waste fluids from the cleaning of bulk-chemical (SIC 28) containers, characterized by chromium (2.1 ppm) and high concentrations of zinc (2,170 ppm).

Prior to commencing injection of any of these other industrial wastes, permittee shall submit a complete organic and inorganic chemical analysis for each waste to be injected. Injection shall not commence without authorization of the administrator.

New sources of industrial wastes will be identified and approved prior to the start of injection of these wastes.

The injection of any waste defined as hazardous under 40 CFR 261.3 is not authorized unless and until the permittee applies for and receives necessary permits and authorization from the U.S. Environmental Protection Agency (EPA) under the Resources Conservation and Recovery Act (RCRA) program.

The maximum discharge (injection) pressure shall not exceed 2500 psig at the surface.

The discharge (injection) rate or volume will vary. Permittee shall obtain approval for a rate in excess of 2,000 barrels per day (42 gallons per barrel) total oil-field produced water and a rate in excess of 100 barrels per day total wastes other than oil-field produced water.

If at any time the maximum authorized pressure or rate is exceeded, permittee shall report this fact to the administrator or his representative orally within 24 hours of knowledge of the fact. A written submission shall be provided within 5 days of the time permittee becomes aware of the circumstances.

Permittee shall sample and analyze water produced from the #1-5 Federal Jessen well before injection of industrial wastes other than produced water commences. The analysis will be similar to the complete analysis required for the wastes; results shall be provided the Water Quality Division as soon as available. Annual samples will then be collected from the #1-5 Federal Jessen and analyzed for purposes of comparison.

Permittee is required to monitor the injection and annulus pressures and injection rate continuously. Within 30 days after issuance of this permit, permittee shall submit information which shows:

1. how injection and annulus pressures and injection rate will be recorded if continuous recording devices have not yet been installed;
2. a plan for installing continuous recording devices, or an alternate proposal; devices should be installed within 90 days of permit issuance.

Permittee shall notify the Water Quality Division when devices have been installed and are operational. This information shall also be included in the appropriate monthly operations report.

D. Proper Operation and Maintenance

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

The permittee is required at all times to properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve permit compliance. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training and adequate laboratory and process controls, including appropriate quality assurance procedures.

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

E. Entry and Inspection

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

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

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.
3. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;

- b. The name(s) of individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. Names of individuals who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
4. The prescribed program for this permitted activity is as follows:

The injection zone (Minnelusa Formation) is an oil producing formation overlain by the Goose Egg and Chugwater Formations which are considered to provide a thick impermeable layer. Because the threat to usable groundwater resources at relatively shallow depths appears negligible, a monitoring program is not prescribed. If future developments indicate different circumstances, this section may be modified.

Samples from the #1-5 Federal Jessen well will be collected and analyzed as described in Section C.

G. Requirements for Monitoring the Discharge

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

Injection and annulus pressures and injection rate (volume) shall be monitored continuously.

Average and maximum daily injection pressure and volumes shall be reported on a monthly basis. Accumulative injection volume shall be reported at the same time.

A typical analysis of each new source of oil-field produced water shall be provided by the permittee prior to injection. A more complete, additional or supplemental analysis of produced water may be required by the Water Quality Division if circumstances warrant such action.

A complete organic and inorganic analysis of all wastes other than produced water shall be provided by the permittee prior to injection. Once injection of wastes other than produced water is approved, periodic reporting of the chemical composition of such injection wastes may be required. Reports shall include the information specified in Section f.3. of this permit and shall also include the EPA approved method used for the analysis of each constituent.

All data shall be reported within 30 days following the end of the reporting period, to the Groundwater Section of the Water Quality Division in Cheyenne.

H. Test Procedures

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

I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified in Section C and/or Section G of this permit.
5. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable groundwaters of the state.

A written submission shall be provided within 5 days of the time the permittee becomes aware of the circumstances. This written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

7. The permittee shall report all instances of noncompliance not reported otherwise, at the time monitoring reports are submitted; such reports shall contain the information listed in 6. above.

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

J. Permit Actions

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

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

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

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

A permit may be modified in whole or part in order to apply more, or less,

stringent standards; or prohibitions for a toxic or other substance present in the permittee's discharge, as may be ordered by the council.

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

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

K. Mechanical Integrity

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

At a minimum of once every 5 years and more frequent if required by the Department of Environmental Quality, Water Quality Division, the permittee shall demonstrate the continued sound and unimpaired condition of all components of the injection well by well mechanical integrity testing. An injection well has mechanical integrity if there is no significant leak in the casing, tubing or packer; and there is no significant movement of injected fluid through vertical channels adjacent to the injection well bore. The absence of leaks will be determined by an acceptable pressure test. The absence of fluid movement through vertical channels will be determined by injection well profile, log(s) and test(s) or other acceptable method(s).

On June 25, 1986, the casing-tubing-packer of the Horse Creek Federal #1-8 well was pressure tested to 1500 psi for 15 minutes and no leaks reported. On October 11, 1980, gamma ray, temperature and cement bond logs were run with no deficiencies reported.

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.

The Horse Creek Federal #1-8 disposal well was converted from a producing oil well in July of 1982. The well was drilled to 8610 TD and has an 8600 PB TD.

The disposal well is equipped with a Baker "Lok-Set" packer at 8525 feet in 5½" casing. Injection is through 2 7/8" tubing.

Perforations (4 holes/foot) are at 8598-8596 and 8572-8584 feet.

The casing-tubing annulus is filled with fresh water mixed with 5 gallons/100 barrels of Halliburton "An-Hib" corrosion inhibitor. The annulus is not pressurized.

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.

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:

Water Quality Division abandonment requirements shall be coordinated with requirement of the Wyoming Oil and Gas Conservation Commission.

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 well be permanently sealed against the injection or disposal of anything after abandonment.

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the permit conditions;
3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;
4. Furnish to the administrator within a reasonable time, any information which the administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the administrator, upon request, copies of records required to be kept by this permit.

N. Financial Responsibility

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

The required Certification of Financial Responsibility has been submitted.

O. Special Measures the Director Finds Necessary:

Continuous recording devices to measure injection and annulus pressures and injection rate (volume) shall be installed and operational within 180 days following permit issuance.

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.

R7



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

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
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March 31, 1987

Mr. Paul Osborne
U.S. EPA
One Denver Place
999 18th Street, Suite 500
Denver, CO 80202-2405

RE: Application for injection well permit 86-402RR, Horse Creek Federal #1-8, Weston County, Wyoming

Dear Mr. Osborne:

The applicant has reviewed the draft permit and requested that the initial injection rate or volume of produced water allowed, without obtaining approval, be increased to 2,000 barrels per day. Unless there are compelling reasons for denying this request, the final permit will show an initial allowed injection rate of 2,000 BWPD of produced water.

Sincerely,

A. J. Mancini
Groundwater Control Supervisor
Water Quality Division

AJM/nc

cc: Janie Nelson, OGCC. Casper
Richard Stockdale, SEO, Cheyenne



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



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
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April 1, 1987

STATE OF WYOMING PUBLIC NOTICE

PURPOSE OF PUBLIC NOTICE

THE PURPOSE OF THIS PUBLIC NOTICE IS TO INDICATE THE STATE OF WYOMING'S INTENTION TO ISSUE AN UNDERGROUND INJECTION CONTROL (UIC) PERMIT AND TO CLASSIFY THE RECEIVING GROUNDWATER OF THE STATE IN THE VICINITY OF THE PERMITTED INJECTION, UNDER THE WYOMING ENVIRONMENTAL QUALITY ACT (35-11-101 ET. SEQ. WYOMING STATUTES 1957, CUMULATIVE SUPPLEMENT 1973), AND DEPARTMENT OF ENVIRONMENTAL QUALITY WATER QUALITY RULES AND REGULATIONS CHAPTERS VIII AND IX (SEPTEMBER, 1980).

IT IS THE STATE OF WYOMING'S INTENTION TO ISSUE AN UNDERGROUND INJECTION CONTROL PERMIT FOR THE DISPOSAL OF INDUSTRIAL WASTES.

APPLICANT INFORMATION

APPLICANT NAME: KISSACK WATER AND OIL SERVICE, INC.

MAILING ADDRESS: BOX 46
ROZET, WYOMING 82727

FACILITY NAME AND LOCATION: HORSE CREEK FEDERAL #1-8 DISPOSAL WELL; NW¹/₄ NE¹/₄ S8, T47N, R68W, WESTON COUNTY, WYOMING

PERMIT NUMBER: 86-402

Kissack Water and Oil Service, Inc. intends to operate a commercial disposal well for the subsurface injection of oil-field produced waters and other industrial wastes into the Minnelusa Formation through perforations 8572-8584 and 8595-8596 feet.

The wastes to be injected consist mainly of water brought to the surface in association with oil produced from numerous oil wells. The composition of this waste water varies, with the concentration of total dissolved solids in the range of from less than 10,000 to more than 200,000 mg/l.

The applicant has also requested approval to inject varying amounts of other wastes generated by industrial activities at the surface, such as from steam cleaning and boiling out car and truck radiators, from sump wastes, and from the

cleaning of bulk-chemical containers. These wastes may include concentrations of zinc, chromium, boron and other constituents.

Maximum injection pressure is limited to 2500 psig at the surface. The injection rate will vary. Prior approval must be obtained from the Water Quality Division if the total injection rate for produced water will be in excess of 2,000 barrels (42 gallons/barrel) per day, and for other wastes in excess of 100 barrels per day.

PERMIT REQUIREMENTS

The permit is issued for the life of the operation but is reviewed at least once every five (5) years and may be reviewed more frequently. Public notice of the permit review and request for public comment will be made every ten (10) years.

The proposed permit requires the permittee to monitor the injection and submit periodic reports. Prior to commencing injection of any wastes other than oil-field produced water, the permittee must submit a complete organic and inorganic chemical analysis for each waste to be injected. Injection of such wastes may not commence without authorization of the Administrator.

The applicant has submitted information which documents the mechanical integrity of the disposal well. At a minimum of once every five (5) years and more frequently if required, the permittee must demonstrate the continued sound and unimpaired condition of all components of the injection well, by mechanical integrity testing.

STATE TENTATIVE DETERMINATIONS

The water in the injection zone within a one-mile radius of the disposal well is designated Class VI (unsuitable for use) because (1) groundwater is located so as to make normal use economically and technologically impractical, (2) groundwater in the receiving formation is associated with accumulations of hydrocarbons, and (3) the Horse Creek Federal #1-8 has been used for the injection of oil-field produced water into the Minnelusa Formation since 1982 as previously authorized by the Wyoming Oil and Gas Conservation Commission.

Other tentative determinations have been made by the State of Wyoming relative to conditions to be imposed on the permit. These conditions will assure that usable groundwaters of the State will be protected and applicable provisions of State statutes and regulations will be followed.

PUBLIC COMMENTS

Public comments on the proposed operation, the proposed groundwater classification, and the State's intent, are invited prior to May 6, 1987. Comments may be directed to the Wyoming Department of Environmental Quality, Water Quality Division, Groundwater Section, Herschler Building, 4th Floor West, Cheyenne, Wyoming 82002. All comments received prior to May 6, 1987 will be considered.

Any interested person may request, in writing prior to May 6, 1987 a public hearing. The request should indicate the interest of the requesting party and reasons why a hearing is warranted.

If a hearing is not warranted, the final permit will be issued at the end of the comment period.

ADDITIONAL INFORMATION

Additional information may be obtained upon request by calling the State of Wyoming, (307) 777-7781, or by writing to the aforementioned address.

The complete application, draft permit, and related documents are available for review and inspection at the same aforementioned address.

Public Notice No. UIC 87-001

R7



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 18, 1986

Mr. Ryne Goodnough
Centennial Engineering & Research, Inc.
237 North Main, Suite 1
Sheridan, WY 82801

RE: Application GPC 86-402R, Underground Disposal of Waste Fluids, Horse Creek Federal No. 1-8 (Kissack Water & Oil Service, Inc.), Weston Co.

Dear Mr. Goodnough:

A review of the subject application for a permit to operate a commercial/industrial waste disposal well has resulted in the following comments. Address each comment in your response.

1. Provide a more detailed narrative description of the industrial wastes from Gillette Radiator, BTM, and Unichem, and more complete chemical analyses if available. Include information on any organic compounds/chemicals and concentrations and amounts of each. For the Unichem wastes, identify the chemicals in the bulk containers; chromium in the waste should be identified as total chromium, hexavalent chromium, and/or other chromium, with the concentration of each given. Any potentially hazardous substance in any of the wastes must be identified.
2. Item 5.W. of the application requires an evaluation of alternative disposal practices and justification that subsurface discharge (injection) is the best alternative. The information you have provided is adequate for the disposal of produced water but not for the other industrial wastes. Provide a more appropriate response concerning the injection of wastes from Gillette Radiator, BTM and Unichem.
3. Show the average and maximum rates or volumes of wastes attributed individually to Gillette Radiator, BTM, and Unichem. The total average injection rate of 80 BPD (excluding produced water) is for what time period (i.e., average for a day, a week, etc.)? How many gallons are equivalent to one barrel?
4. What is the operating pressure range? What is the average injection pressure, for what time period?

5. What kind of fluid is in the annulus between the 5-1/2 inch casing and the 2-7/8 / 2-3/8 inch disposal line? Is this fluid under pressure?
6. How are injection and annulus pressures recorded? Are continuous recording devices used? Is the flow to the well recorded continuously? In what units is the flow recorded? Are pressures and rates measured and recorded at the wellhead? Where are operating records kept, for purposes of inspection? Who is responsible for maintenance of the well and operating records?
7. What is the frac pressure or gradient for the receiver at the disposal well site? Show calculations.
8. Exhibit A of the application shows a producing oil well (No. 1-5 Federal Jessen, stated in the application) in proximity to the disposal well. Provide information to show whether or not the oil well might produce wastes injected into the disposal well.
9. Describe the contingency plan/operation in more detail, including maximum volume that can be handled.
10. Describe the pit referred to. When was it constructed? What are its dimensions? Is it lined? When was it last used? When was the pit permitted, and by whom?

Please respond to this letter at your earliest convenience.

Sincerely,



A. J. Mancini
Groundwater Control Supervisor

AJM/nc

cc: Kissack Water & Oil Service, Inc., P O Box 46, Rozet, WY 82727
Janie Nelson, OGCC, Casper
Richard Stockdale, SEO, Cheyenne
Mike Strieby, EPA, Denver



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 12, 1986

Mike Strieby
US EPA, Region VIII
One Denver Place
999 18th Street, Suite 1300
Denver, CO 80202-2413

RE: Application GPC-86-402, Underground Disposal of Waste
Fluids, Horse Creek Federal No. 1-8, Campbell County ? *Weston*

Dear Mr. Strieby:

Enclosed is information submitted to amend the subject UIC
application. Please provide review comments for the complete
amended application.

Sincerely,

A handwritten signature in cursive script that reads "A J Mancini".

A J Mancini
Groundwater Control Supervisor

AJM/pjb
Enclosure



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 29, 1986

Centennial Engineering & Research, Inc.
237 North Main, Suite 1
Sheridan, WY 82801

Attn: Ryne Goodnough

RE: Application GPC 86-402, Underground Disposal of Waste Fluids, Horse
Creek Federal No. 1-8 (Kissack Oil and Water Service)

Dear Gentlemen:

Even though we are still compiling review comments on the subject application, one comment seems significant enough to mention at this time.

The application we received is for a permit to inject industrial wastes from Gillette Radiator, BTM, and Unichem. Information from another source indicates that Kissacks Oil and Water Service may also need a permit to operate a commercial injection well for the disposal of oil field wastes (produced water).

Please notify this office as to whether or not the application is to be amended to include the commercial disposal of oil field wastes. If the application is to be amended, submit a description of the oil field wastes including quality, quantity, and sources, and other pertinent information.

Sincerely,

A handwritten signature in cursive script that reads "A J Mancini".

A J Mancini
Groundwater Control Supervisor

AJM/pjb

cc: Kissack Oil and Water
Janie Nelson, OGCC

summary file



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: A. J. Mancini, UIC Groundwater Control Supervisor
FROM: Chris Norman, Groundwater Engineering Evaluator
DATE: October 22, 1986
SUBJECT: GPC 86-402

The following are my written comments regarding GPC 86-402. The comments are referenced to the numbers on the GPC application, Form GPC 4.

General comments: In order to more efficiently regulate the activities at the disposal well, the Water Quality Division should be the lead agency for all activities at the site. This would cause the application to either amend their existing permit to include the proposed wastes or to include the disposal of produced water in GPC 86-402.

5d. The maps and cross-sections should show the vertical and lateral limits of all underground sources (water bearing strata) within the area of review. This data may be available from well logs of abandoned oil wells in the area.

5h. More detailed water chemistry data is required of the receiving fluids. Although injection of produced water has occurred, the current chemistry should be characterized. Past analysis, if available, of the receiver would be useful.

The applicant should also provide an analysis characterizing the fluids currently being injected into the receiver.

5i. Are the waste fluid analyses provided representative of the fluids which are proposed to be injected? More information should be provided regarding the source of wastes. This information may include what constituents may be expected and the amount generated.

Methods of sampling and analysis of the waste fluids should be provided. The lab Q.A. program should also be outlined.

5l.

(i) What is the expected range of well head pressures?

(ii) How will the contingency pit be constructed? A permit to construct will be required prior to construction. An application is included.

- 5p. The exemption requested may be granted if sufficient information is provided in 5d.
- 5w. The disposal well has been in operation for disposal of produced water. Alternate disposal techniques should be evaluated for the additional wastes.
- 9. The well integrity test method should be submitted.

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
Administrator
Water Quality Division
P.E. # 1479
11-7-86
Date of Issuance

Richard Wood
Director
Dept. of Environmental Quality

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

2
JW

PERMIT TO CONSTRUCT

PERMIT NO. 86-404
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

PICNIC PAVILLION WASTEWATER TREATMENT FACILITY

This permit hereby authorizes the applicant:

William R. Pearson, USAF
90 CSG/DE
F. E. Warren Air Force Base
Cheyenne, Wyoming 82005-5000

to construct, install or modify publicly owned wastewater treatment and disposal facility (package plant and drainfield) according to the procedures and conditions of the application number 86-404. The facility is located in SW NE Section 23, T14N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

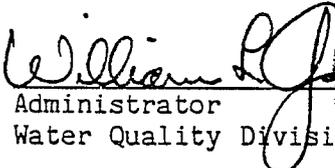
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

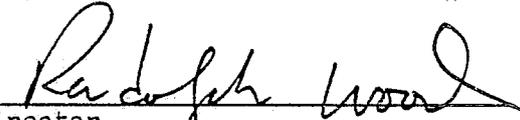
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

6-11-87
Date of Issuance

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

SPECIAL CONDITIONS FOR PERMIT 86-404

An operation and maintenance manual shall be submitted in accordance with Section 24 of Chapter XI, Water Quality Rules and Regulations. Section 24 requires a draft manual at 50% completion of construction and final approval is required prior to plant start-up.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Picnic Pavilion Wastewater Treatment Facility, Laramie County

ARCHITECT OR ENGINEER: Jordon C. Holland
U.S. Government
90 CSG/DEE, F.E. Warren AFB, WY 82005-5000

APPLICANT: F.E. Warren AFB

WATER QUALITY DIVISION REFERENCE NUMBER: 86-404R

REVIEWING ENGINEER: Thomas S. Norman *T.S. Norman*

DATE OF REVIEW: March 6, 1987

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. The rationale for "how the 400 people per day figure was obtained" was not submitted. Just because it is in the specifications does not justify its validity.
2. The sizing for the evapotranspiration drainfield is not correct. The regulations require the following formula to be used:

Area sq. ft. = $586 (Q \div (PET-P))$
 Q = Average daily flow = $0.6 \times$ peak daily flow (gpd)
 PET = Evapotranspiration rate in inches per year
 P = Precipitation rate in inches per year
 565 = conversion formula

This formula is merely a mass balance of liquids and can be modified for a 6 month summer period.

$Q = 2000 \text{ gpd} \times 0.6 = 1200 \text{ gpd} = 160 \text{ c.f./day}$
 $@ 6 \text{ months} @ 30 \text{ days} = 28,877 \text{ c.f.}$

$PET = 22.19"$, assume 70% occurs in summer = 15.5 inches
 $P = 10.18"$ from design report
 $\text{Net loss} = 15.5" - 10.18" = 5.32" = .44 \text{ feet}$

$\text{Area} = Q \div \text{net loss} = 28,877 \text{ c.f.} \div .44 \text{ ft.} = 65,630 \text{ s.f. of drainfield.}$

Your calculations are also wrong in that they consider the area between the drainfield trenches. Only the surface area of the trench can be considered. Your drawing shows 870 lineal feet of trench at 1 foot width which is only 870 s.f. - well below the required size.

3. Section 14 of the Regulations specify that the organic loading on the aeration tank cannot exceed 15 #BOD/1000 c.f./day. Your proposed system shows 18.7 #BOD/1000 c.f./day.
4. It is not clear how the bio-filter is kept in place without discharging over the weirs. Details were not provided.
5. It is incorrect to state that sludge does not need to be removed on a routine basis. This is a common fallacy about package treatment plants. You still need to designate a place where this material can be disposed.
6. The drawings are not clear on the weir baffles for the clarifiers. The regulations have specific requirements that need to be reviewed.
7. I do not see in the "air supply" formula where you accounted for nitrification. Also the regulations require 2# oxygen per #BOD unless you can justify the 1.47# rate. Also nitrification is 7.5 times the average day ammonia nitrogen.
8. Two blowers are not shown on the plans. Why aren't blowers shown on the floor plan? Where is the air intake?
9. The return sludge, waste sludge, and air flow are required to be metered according to the regulations.
10. The plans show 870 l.f. of drainfield whereas your letter states 900 l.f.

It is not correct to fill the drainfield trench all the way to the top with stone. This allows precipitation to infiltrate and overload the system. Also this coarse stone does not allow wastewater to migrate upward for evapotranspiration. The regulations require the stone to be covered with:

4 inches of pea gravel or filter cloth and
24 inches uniform sand layer - (D50) 0.10 mm, and
6 inches of sandy topsoil

Surface runoff must be directed away from the drainfield.

The overflow pipe between serial trenches shall be set no higher than the mid-point of the upstream distribution pipe.

11. There must be four feet of separation between the bottom of the drainfield and the depth to the season high groundwater table. The test hole data shows the area to be marginal and is not taken during the time of year when the highest groundwater table occurs. More information is required especially in the area of the lowest trench.
12. Page 15400-3 of the specifications require the septic system to be "2000 gal. min. primary tank 250 gallon chemical tank with tray (for alum and lime) standard distribution box, and min. 200 ft. of 4" round perforated tile." The plans do not show the primary tank and chemical tank. Also, 870 feet of drainfield pipe is shown on the plans versus 200 feet stated here.

March 6, 1987

Page 3

13. A draft operation and maintenance manual is required at 50% completion of construction with final approval started prior to plant start-up. See Chapter XI regulations for the requirements of the manual.

can

10-29-86

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Picnic Pavilion Wastewater Treatment Facility, Laramie Co

ARCHITECT OR ENGINEER: Jordon C. Holland, U.S. Government
90 CSG/DEE, F.E. Warren AFB, WY 82005-5000

APPLICANT: William R. Pearson, Major, USAF, 90 CSG/DE
F.E. Warren AFB, WY 82005-5000

WATER QUALITY DIVISION REFERENCE NUMBER: 86-404

REVIEWING ENGINEER: Thomas S. Norman *T.S. Norman*

DATE OF REVIEW: October 28, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A plan sheet of the location was not provided.
2. Construction drawings of the treatment unit are required.
3. How was the capita loading of 400 people/day obtained?
4. There is no reduction in size of drainfield allowed for aerobic units. The drainfield area is based on the percolation rate of the soil. Percolation rates were not provided.
5. What is the volume of the extended aeration tank?
6. How is the sludge recycled? What recycle volumes are provided?
7. What are the weir overflow rates of the clarifier?
8. What is the biofilter?
9. How and when is the sludge removed? Where will it be disposed at?
10. What is the detention time in the clarifier?
11. Provide a detail of the weir and baffles for the clarifier.
12. How can the aeration devices be removed for cleaning and repair?
13. How was the formula for air supply obtained? Since nitrification cannot be prevented, aeration must be supplied for the nitrogen demand also.
14. Where are the blowers to be housed? How many blowers are being provided?
15. How is the return sludge, waste sludge and air flow to be metered?

16. How is scum to be removed from the clarifier?
17. What kind of chlorinator is being provided? Where is it housed?
18. A detail of the drainfield is necessary. Is it lined so that it is a true E-T system?
19. The design report states that groundwater is at 2 feet and also at 94 feet. Which is correct?
20. The sandy clay loam may not be an acceptable soil for a disposal bed.
21. What is the separation distance between the drainfield and wells, streams, property lines, and buildings?
22. The drainfield is very undersized if it is a true E-T system. The Water Quality Division's procedures shows an E-T bed of 67,000 s.f. is required.
23. Is this treatment approved by the National Sanitation Foundation (NSF)?

nc

cc: Mr. Bill Metz, 90 CSG/DEEV, F.E. Warren AFB, WY 82005-5000

2
JN

PERMIT TO CONSTRUCT

New

Permit No. 86-405R

Renewal

Modified

Pebble Bend Residential Subdivision
(Name of Facility)

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

Cheyenne Board of Public Utilities

2100 Pioneer Avenue

Cheyenne, WY 82001

to construct, install, or modify a municipal water distribution and sewer collection facility according to the procedures and conditions of the application No. 86-405R. The facility is located in NE1/4 Section 19, T14N, 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.

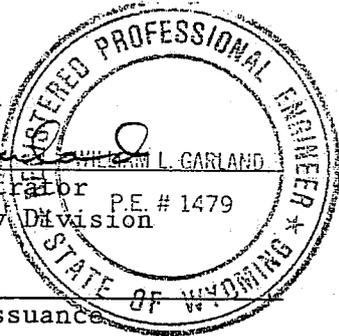
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

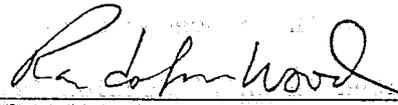
AUTHORIZED BY:



Administrator P.E. # 1479
Water Quality Division
11-10-86

Date of Issuance





Director
Dept. of Environmental Quality

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

cc: Peter Abplanalp
Intermountain Professional Services, Inc.
320 West 25th St., Suite 110
Cheyenne, WY 82001

Run

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Pebble Bend

ARCHITECT OR ENGINEER: Peter Abplanalp, Intermountain Professional Services
320 W 25th St, Suite 110, Cheyenne, WY 82001

APPLICANT: Cheyenne Board of Public Utilities
2100 Pioneer Avenue, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 86-405

REVIEWING ENGINEER: Thomas S. Norman, Southeast District Supervisor *TSN*

DATE OF REVIEW: October 28, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. It appears that all three slopes for the sewer mains were calculated in a different manner. They should be consistent.
 - a. MH2-MH1: center line to center line.
 - b. MH1-existing MH: invert out to invert in.
 - c. Existing MH-existing manhole: unknown.
2. Sheet 6/6. Concrete encasement is not acceptable when the minimum requirements are not met for the water and sewer separation. A separate conduit pipe is required.

pjb

file



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 23, 1986

A. B. Neeley
Plant Manager
Church & Dwight Co. Inc.
P.O. Box 123
Green River, WY 82935

RE: Permit to construct three groundwater monitoring wells, WQD Reference No. 86-406

Dear Mr. Neeley:

This letter will document my October 22, 1986 telephone conversation with William Harper. I am returning your application for a permit to construct three monitor wells. A separate permit is not required for wells associated with a facility permitted by the Solid Waste Management Program. If you have any questions concerning this matter, please call me at (307) 777-7781.

Sincerely,

Katherine J. Laudon
Groundwater Engineering Evaluator

KJL/nc
cc: Tim Link, DEQ/SWM

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 86-406

DATE SUBMITTED FOR REVIEW 10-20-86

NAME AND LOCATION OF FACILITY Church + Dwight Monitor Wells
Sec 30 T19N R 109W
Sweetwater 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 10-22-86

ACCEPTED FOR RECORD

2386
(Date)

[Signature]
Groundwater Control Supervisor

V
JW

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-407
SEE CONDITIONS ON BACK

Skull Point Mine Monitoring Wells
(Name of Facility)

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

FMC Corporation, Skull Point Mine

P.O. Box 750

Kemmerer, WY 83101

to construct, install, or modify a four monitoring wells facility according to the procedures and conditions of the application No. 86-407. The facility is located in NE1/4 NE1/4 Section 27, T20N, R117W in the County of Lincoln, 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.

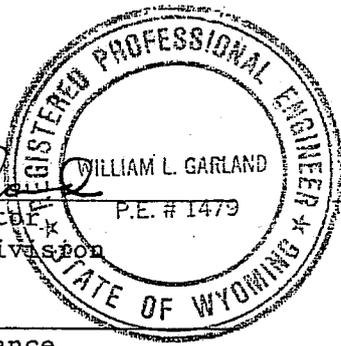
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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
Administrator
Water Quality Division
11-18-86
Date of Issuance



Ra John Wood
Director
Dept. of Environmental Quality

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

Conditions to Permit to Construct #86-407

1. Additional wells may be constructed to the specifications of application 86-407 with prior approval of the Water Quality Division.
2. Once the wells have been completed, the owner will provide the Wyoming Department of Environmental Quality, Water Quality Division with a report that details the logs and construction specifications of the completed wells.
3. All wells will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations.
4. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
5. Within 60 days of permit issuance, a final report shall be submitted to the Water Quality Division summarizing the results of the subsurface investigation.



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 17, 1986

Lisa Korner
Engineering-Science
1100 Stout St., Suite 1100
Denver, CO 80204

RE: Skull Point Monitor Wells, WQD Reference #86-407

Dear Ms. Korner:

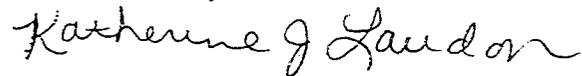
Enclosed is a signed copy of the permit to construct four monitoring wells at the FMC Corporation Skull Point Mine. Once the wells have been constructed, please submit a completion report to the Water Quality Division. This report should include the locations, lithology, and final construction details of all the monitor wells.

As we discussed on the telephone on October 22, 1986, if any visible contamination is encountered during drilling, the situation should be reported to the Wyoming Department of Environmental Quality, Water Quality Division as a spill. A report of all water quality data from the monitor wells should be provided to this office as the data become available. A final report of the investigation should be furnished to the Division within 60 days of Permit issuance.

November 17, 1986
Page 2

If you have any questions concerning the permit or conditions please call Jack Bedessem at (307) 332-3144 or me at (307) 777-7781. Thank you for your attention to this matter.

Sincerely,



Katherine J. Laudon
Groundwater Engineer Evaluator

KJL/can

cc: FMC Corporation, Skull Point Mine
Jack Bedessem, WQD, Lander
Steve Garland, LQD, Lander
Jake Strohman, WQD, Cheyenne

RT

SN

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-408
Ref. No. 83-520

Redwoods Addition
(Name of Facility)

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

Casper Board of Public Utilities

200 North David Street

Casper, WY 82601

to construct, install, or modify a municipal wastewater collection system facility according to the procedures and conditions of the application No. 86-408. The facility is located in SE1/4 NW1/4 and SW1/4, NE1/4 Section 24, T33N, R80W 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.

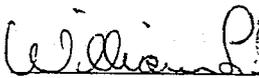
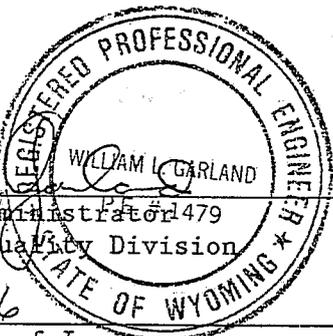
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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



Administrator 479
Water Quality Division
11-4-86
Date of Issuance


Director
Dept. of Environmental Quality

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

cc: Donald R. Horton
Global Engineering & Land Surveying, Inc.
P.O. Box 532
Casper, WY 82602

THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

1890-1990
WYOMING
CENTENNIAL
A LASTING LEGACY

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

January 8, 1987

Utah Power & Light Company
1950 West North Temple
Salt Lake City, UT 84116

RE: Permit Correction on #86-409RR, Naughton FGD Pond Recirculation Pumps

Dear Sir:

Enclosed please find a corrected permit on the above referenced facility. The original permit issued stated a 3" diameter return line which should have been recorded as a 4" diameter return line.

Sincerely,

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

Larry Robinson
Control Engineering Supervisor
Water Quality Division

LR/can

cc: Bill Locke, WQD, Lander

E
JW

PERMIT TO CONSTRUCT

PERMIT NO. 86-409RR

New
Renewal
X Modified

Naughton FGD Pond Recirculation Pumps

This permit hereby authorizes the applicant:

Utah Power & Light Company
1950 West North Temple
Salt Lake City, UT 84116

to construct, install or modify floating recirculation pumps to the existing FGD Pond and 4" diameter return line according to the procedures and conditions of the application number 86-409RR. The facility is located in Sec.28. T21N. R116W in the county of Lincoln, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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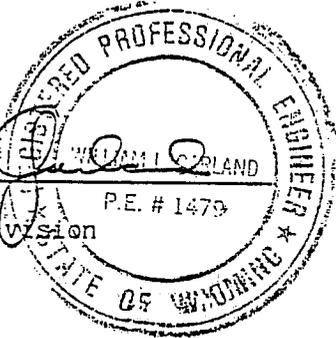
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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 (307) 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 invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


William L. [Signature]
Administrator
Water Quality Division

Ra [Signature]
Director
Department of Environmental Quality

01-12-87
Date of Issuance

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

R7 ✓

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-409RR

Naughton FGD Pond Recirculation Pumps
(Name of Facility)

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

Utah Power & Light Company
1950 West North Temple
Salt Lake City, UT 84116

to construct, install, or modify a floating recirculation pumps to the
existing FGD Pond and 3" diameter return line

facility according to the procedures and conditions of the

application No. 86-409RR. The facility is located in

Sec. 28, T21N, R116W

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.

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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.

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AUTHORIZED BY:


William L. Garland
Administrator P.E. #1479
Water Quality Division
12-22-86
Date of Issuance

Rudolph Wood
Director
Dept. of Environmental Quality

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

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.

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

AUTHORIZED BY:



Administrator P.E. # 1479
Water Quality Division
7-27-87

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

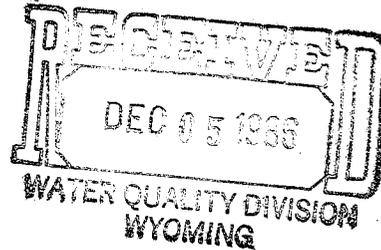
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Frannie WWTP

ENGINEER: Engineering Associates
P.O. Box 1900
Cody, WY 82414

OWNER: Town of Frannie
P.O. Box 72
Frannie, WY 82423



WATER QUALITY DIVISION REFERENCE NUMBER: 86-410

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

DATE OF REVIEW: December 3, 1986

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. Provide the following design information:
 - a. Methodology for establishing the design flow.
 - b. Current and design population.
 - c. Existing and projected flows and flow variations.
 - d. Existing and projected wastewater characteristics including BOD, suspended solids, and pH.
 - e. Existing or proposed quantity and frequency of septage discharges.
2. Specifications must contain the name and seal or signature of the engineer.
3. It appears that the detention time of 146.72 days was computed using the total water depth. Discuss the impact that sludge buildup and winter ice cap will have on the detention time.
4. Provide a concrete apron at the inlet pipe termination for each pond with minimum dimensions of four feet by four feet.
5. The influent pipe in the influent manhole shall be at least six inches above the normal operating water level of the primary lagoon.

6. Bypassing pond 1 or pond 2 will result in a short circuiting problem in pond 3. Explain how discharge permit limits will be met under those conditions. It would be recommended to provide piping to allow bypassing of any single pond and still operate two ponds in series.

7. Exterior slopes shall be three or more horizontal to one vertical.

8. Following construction of the lagoons, but prior to startup, a testing program shall be conducted to demonstrate the effectiveness of the sealing program. In no instance shall the maximum seepage rate exceed 1/8 inch per day in the primary pond. Add this requirement to the specifications.

9. There shall be no provision to bypass that will allow inadequately treated sewage to reach the surface waters. The drain lines provide this capability. If the ponds require draining it can be done by pumping. Delete the drain lines from ponds 1 and 2.

10. The alternate discharge line which will provide a means for pond 3 to be bypassed must be included on the discharge permit.

11. Provide extensions on tees of the discharge from each pond so draw off will be two feet above the bottom of the ponds.

12. Entire volume of pond 3 will not be utilized for detention and treatment unless the discharge point is relocated to the south end of the pond.

13. Explain how the requirements for flow measuring will be met.

14. The Geo-Technical report recommends that the liner be kept from drying out after construction. Discuss the need for this requirement to be in the specifications.

Submit the required information in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. If you have any questions do not hesitate to contact me.

SG/jw

Memo

To File
From A. J. Mancini
Date Nov. 26, 1986
Subject Review of Application 86-410, Frannie
Sewage Treatment Facility

The subject application was received for review Nov. 24, 1986. The application is for a permit to construct two facultative lagoons upstream from an existing sewage lagoon. The existing lagoon presently discharges to nearby Sage Creek (a Class II stream, tributary to the Shoshone River), under NPDES permit WY 0020052.

The extent of the groundwater information submitted with the application is found in the accompanying Report of Preliminary Geotechnical Investigation. Six test borings were drilled and two additional monitor wells were constructed.

The proposed lagoons will be constructed by excavating approximately 12 feet deep with very little dike construction above the existing grade. Reportedly the excavations will at places put the bottoms of the new lagoons in permeable gravel, and perhaps below the water table. Clay liners, 18 inches thick and having a permeability of 10^{-7} cm/sec, are

proposed. These liners will result in seepage losses of about 400 gal/acre/day (the proposed lagoons will cover about $3\frac{1}{4}$ acres), corresponding to a drop in pond effluent elevation of less than $\frac{1}{16}$ -inch per day (as reported by the applicant).

Based on an interpretation of the data provided, the water table gradient is from the vicinity of the lagoons towards Sage Creek and groundwater flows directly from the lagoon sites towards Sage Creek. Therefore, if the lagoons are constructed as proposed, the impact on groundwater should be minimal (i.e., seepage which reaches the water table would be expected to flow to Sage Creek).

If the excavations reach the water table, dewatering probably will be required. The application does not address the disposal of water from the excavations during construction.

We will not recommend a groundwater monitoring program for this facility. However, since monitoring wells have already been installed, applicant may wish to use these wells to monitor operation of the facility and fluctuating groundwater levels.

23

J
R

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-411
 Reference No. 80-12R

BIG HORN MINE NO. 6 RESERVOIR
 (Name of Facility)

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

Big Horn Coal Company

P.O. Box 724

Sheridan, Wyoming 82801

to construct, install, or modify a sedimentation pond facility according to the procedures and conditions of the application No. 86-412. The facility is located in Section 15, T.57N., R.84W., in the County of Sheridan, 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 601, Sheridan, Wyoming 82801; telephone, 672-6457.

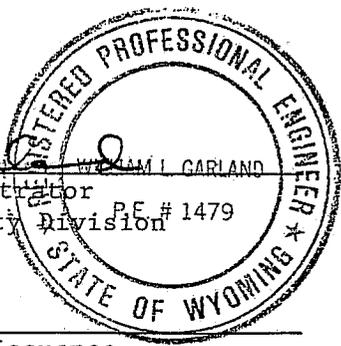
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
PE # 1479
11-4-86
Date of Issuance



R. L. Johnson

Director
Department of Environmental Quality

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

xc: Mr. Doyl Fritz
Western Water Consultants, Inc.
P.O. Box 3042
Sheridan, Wyoming 82801

23

JW

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-412
 Reference No. 80-623

BIG HORN MINE NO. 101 RESERVOIR
 (Name of Facility)

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

Big Horn Coal Company

P.O. Box 724

Sheridan, Wyoming 82801

to construct, install, or modify a sedimentation pond facility according to the procedures and conditions of the application No. 86-412. The facility is located in Section 10, T.57N., R.84W., in the County of Sheridan, 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.

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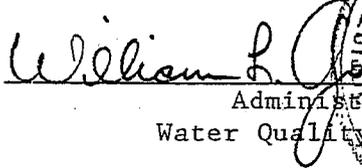
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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, Sheridan, Wyoming 82801; telephone, 672-6457.

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AUTHORIZED BY:


WILLIAM GARLAND
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING

Administrator P.E. # 1479
Water Quality Division

11-4-86

Date of Issuance


Director
Department of Environmental Quality

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

xc: Mr. Doyl Fritz
Western Water Consultants, Inc.
P.O. Box 3042
Sheridan, Wyoming 82801

file
JW

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-413
SEE SPECIAL CONDITIONS

Dorm's Automotive & Marine, Inc.
(Name of Facility)

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

Dorman Land

Dorm's Automotive & Marine, Inc.

842 E. South St.

Powell, WY 82435

to construct, install, or modify a network of four monitor wells facility according to the procedures and conditions of the application No. 86-413. The facility is located in NW1/4 NE1/4 S14, T55N, R99W in the County of Park, 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.

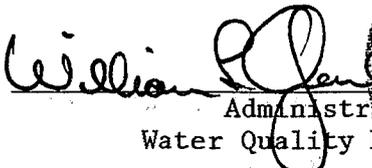
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

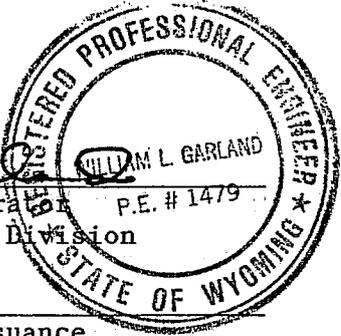
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

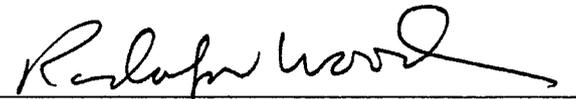
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrative
Water Quality Division
10-24-86
Date of Issuance



REGISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
P.E. # 1479
STATE OF WYOMING


Director
Dept. of Environmental Quality

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

CONDITIONS TO PERMIT TO CONSTRUCT 86-413

1. Additional wells may be installed if prior approval is received from the Water Quality Division.
2. Once the monitor wells and excavations have been completed, the owner will provide the Wyoming Department of Environmental Quality, Water Quality Division with a report that details the logs, locations, and construction specifications, of the completed wells.
3. The results of any analyses conducted on soil or water removed from these wells or excavations shall be provided to the department as soon as they are available.
4. All monitor wells and soil borings will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations.
5. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.

(Continued)

CONDITIONS TO PERMIT TO CONSTRUCT 86-413 CONTINUED

6. The Department of Environmental Quality, Water Quality Division, Northwest District Engineer, 210 Lincoln Street, Lander, Wyoming 82520 (332-3144) shall be notified at least 15 days prior to the installation of the wells and a schedule worked out.
7. All wells should be constructed with protective casing and locking caps. Keys for all monitoring wells shall be provided to the department within 30 days of completion of the project.
8. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required.

cc: William L. Garland, WQD
Jake Strohman, WQD
Steve Gerber, WQD

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PERMIT TO CONSTRUCT

New

Permit No. 86-414

Renewal

Modified

Union Pacific Railroad Tie Treating Plant
(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 groundwater monitor well (well BR-39) according to the procedures and conditions of the application No. 86-414. The facility is located in S5, 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.

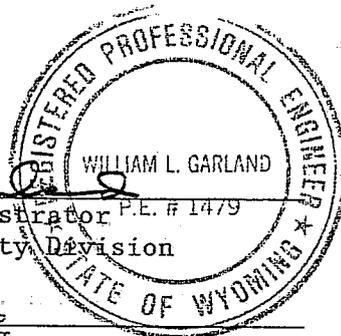
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer,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

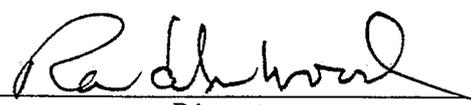
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 P.E. # 1479
Water Quality Division
11-17-86
Date of Issuance




Director
Dept. of Environmental Quality

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

SPECIAL CONDITIONS TO PERMIT NO. 86-414

1. Water level data will be collected monthly during the first year following installation of the containment system. This frequency will decrease to quarterly in the second year. This frequency may be decreased in following years if consistent groundwater flow patterns are observed.
2. An initial water sampling and analyses for phenol, pentachlorophenol, 2, 4, 6-trichlorophenol, 2,4-dimethylphenol, trimethylphenols, dichlorophenols, naphthalenes, acenaphthene, and 1-H indene will be taken in 1986 to establish the current groundwater conditions at this well. Future analyses will be dependent upon the outcome of the first analyses, changes in groundwater flow directions, and the effectiveness of the soil-bentonite wall and the water management systems.
3. Static water level data, including potentiometric surface maps, and water quality data will be reported to DEQ/WQD within 60 days of field measurement and sample collection.
4. As-built well construction details including the type and volume of grout will be reported to DEQ/WQD by December 30, 1986.

cc: Paul Kunkel
CH2M Hill, Central Inc
P O Box 22508
Denver, CO 80222

R7 JN

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 86-415
Ref. No. 81-929R

Guernsey Wastewater Treatment Facility
(Name of Facility)

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

Town of Guernsey

P.O. Box 667

Guernsey, WY 82214

to construct, install, or modify a municipal aerated wastewater stabilization pond facility according to the procedures and conditions of the application No. 81-929R.

The facility is located in Section 2, T26N, R66W in the County of Platte, in the State of Wyoming. This permit shall be effective until December 31, 1986.

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.

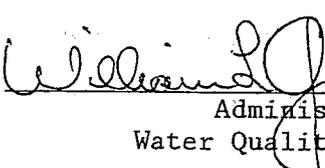
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

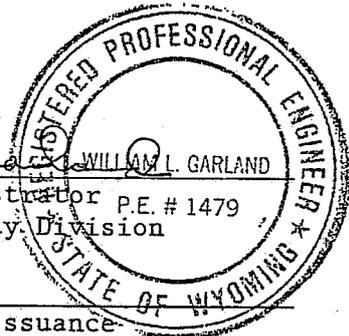
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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
11-4-86
Date of Issuance




Director
Dept. of Environmental Quality

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

cc: Dick Prosser
Buell, Winter, Mousel & Assoc.
145 S. Durbin, Suite 102
Casper, WY 82601

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JN

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-416
Ref.No. 84-511R

Jess's Hat Six Truck Plaza
(Name of Facility)

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

Jess Manzanrez

P.O. Box 1760

Casper, WY 82609

to construct, install, or modify a commercial wastewater collection system facility according to the procedures and conditions of the application No. 84-511. The facility is located in Section 9, T33N, R78W in the County of Natrona, in the State of Wyoming. This permit shall be effective until December 31, 1987.

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.

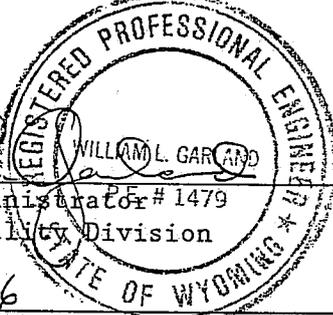
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

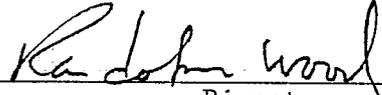
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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. Garand
WILLIAM L. GARAND
Administrator # 1479
Water Quality Division
STATE OF WYOMING
11-4-86
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: E. Gene Brady
Brady Engineering Co., Inc.
P.O. Box 2521
Grand Island, NE 68802

R7 JS

PERMIT TO CONSTRUCT

PERMIT NO. 86-417RR
SEE SPECIAL CONDITIONS

- New
- Renewal
- Modified

Walther Septic System

This permit hereby authorizes the applicant:

Timon and Flora Walther
1202 Shield Street
Laramie, WY 82070

to construct, install or modify subsurface wastewater treatment and disposal according to the procedures and conditions of the application number 86-417RR. The facility is located in NE S14, T13N, R71W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of 2 years (5 years maximum) from the date of issuance of this permit.

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

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

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

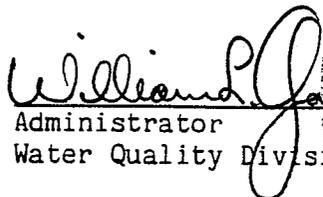
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

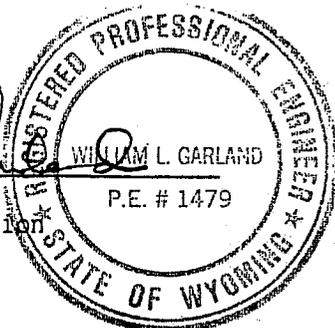
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

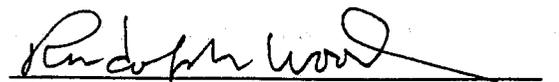
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

2-10-87
Date of Issuance

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

Conditions to Permit to Construct #86-417RR

The permittee shall notify the Albany County Planning Office, 405 Grand Avenue, Laramie, Wyoming 82070, phone number 721-5288, of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.

cc: Albany County Planning Office, 405 Grand Avenue, Laramie, Wyoming 82070
Donald R. Lamb, Associated Engineers, 609 S. 2nd St., Laramie, WY 82070

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Walther Septic System

ARCHITECT OR ENGINEER: Don Lamb, Associated Engineers
609 South Second St., Laramie, WY 82070

APPLICANT: Timon and Flora Walther
1202 Shield St., Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 86-417R

REVIEWING ENGINEER: Thomas S. Norman, Southeast District Supervisor

DATE OF REVIEW: December 02, 1986 *TBN*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. It is a requirement that there be at least four foot separation between the seasonal high groundwater level and the bedrock/shale layer. The applicant has not submitted sufficient information to meet this separation requirement. A five foot hole is not adequate when the bottom of the trench is 2.8 feet deep.
2. The percolation rates were incorrectly calculated. The total drop is not used in the calculation. Only the last drop can be used. In this instance, this error did not significantly change the results.

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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: Walther Septic System

ARCHITECT OR ENGINEER: Donald Lamb, Associated Engineers
609 South 2nd, Laramie, WY 82070

APPLICANT: Timon and Flors Walther
1202 Shields, Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 86-417

REVIEWING ENGINEER: Thomas S. Norman, Southeast District Engineer

DATE OF REVIEW: October 29, 1986 *TBN*

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plans need to be signed/sealed by a Wyoming registered professional engineer.
2. The plan sheet did not show a replacement area for the drainfield.
3. Dimensions and details on the septic tank where not provided.
4. The depth to seasonal high groundwater and bedrock were not identified.
5. Cleanouts must be provided every 100 feet on the sewer.
6. Calculations on the percolation tests were not provided.
7. At least 12 inches to top soil is required over the drainfield to prevent freezing.

pjb

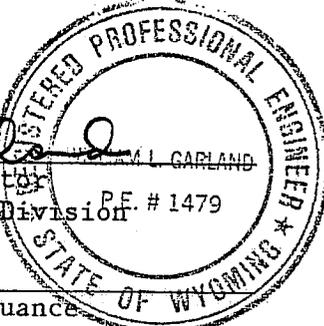
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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
11-24-86
Date of Issuance

R. John Wood
Director
Dept. of Environmental Quality

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

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.

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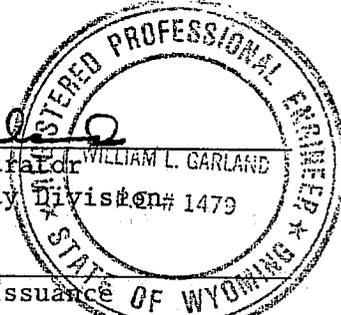
AUTHORIZED BY:



Administrator WILLIAM L. GARLAND
Water Quality Division # 1479

11-24-86

Date of Issuance





Director
Dept. of Environmental Quality

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

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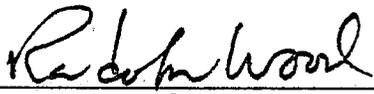
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AUTHORIZED BY:


Administrator
Water Quality Division
11-24-86
Date of Issuance




Director
Dept. of Environmental Quality

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

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UN

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-421

Clay Draw Evaporation Pond
(Name of Facility)

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

Exxon Company, USA
P.O. Box 1600
Midland, TX 79702

to construct, install, or modify a pond with two 49.8 ac-ft cells to receive
plant process and washdown water as well as the sewage lagoon effluent

facility according to the procedures and conditions of the
application No. 85-93. The facility is located in

Sec. 19, T22N, R111W
in the County of Sweetwater,

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.

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The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and dur-

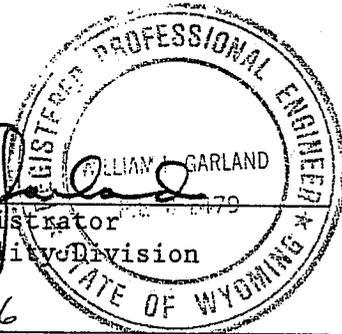
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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted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

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AUTHORIZED BY:


Administrator
Water Quality Division

11-24-86
Date of Issuance


Director
Dept. of Environmental Quality

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

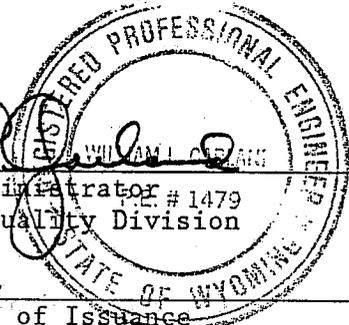
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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted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

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AUTHORIZED BY:


William J. Adams
Administrator # 1479
Water Quality Division
11-24-86
Date of Issuance

Radebrun
Director
Dept. of Environmental Quality

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

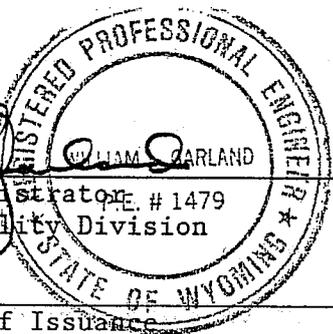
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

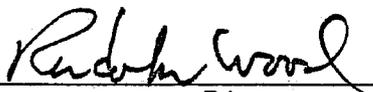
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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 Garland
Administrator, # 1479
Water Quality Division
11-24-86
Date of Issuance


Director
Dept. of Environmental Quality

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

To log into Comp. 4/5

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-424R

Fremont Avenue Sewer Line Extension
(Name of Facility)

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

City of Rock Springs
P.O. Box 698
Rock Springs, WY 82902

to construct, install, or modify a replace Fremont Avenue lift station with
approximately 1300 l.f. of 8" diameter sewer

facility according to the procedures and conditions of the

application No. 86-424R. The facility is located in

NW $\frac{1}{4}$, Sec. 36, T19N, R105W

in the County of Sweetwater,

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-

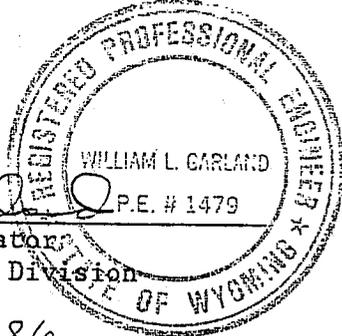
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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
Water Quality Division
December 9, 1986
Date of Issuance

Rudolph 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: Fremont Avenue Sewer Line Extension

ENGINEER: Glenn Sugano
City of Rock Springs
P.O. Box 698
Rock Springs, WY 82902

OWNER: Glenn Sugano
City of Rock Springs
P.O. Box 698
Rock Springs, WY 82902

WATER QUALITY DIVISION REFERENCE NUMBER: 86-424

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

DATE OF REVIEW: November 6, 1986

ACTION: **Not authorized.**

COMMENTS:

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

1. On plan sheet 1 of 2, the sewer line is identified as an 8" diameter PVC line. On sheet 2 of 2, the sewer line is identified as a 12" asbestos cement line transitioned to a 12" steel pipe. Please clarify the pipe size and material to be used.

2. Wyoming Water Quality Rules and Regulations, Chapter XI, Part B, Section 9c requires that aerial crossings be located above the 100 year flood. Please address this issue.

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

Chey. R. 7. 

PERMIT TO CONSTRUCT

PERMIT NO. 86-425
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

Halliburton Services - Powell Service Center

This permit hereby authorizes the applicant:

S A Burford
Halliburton Services
Drawer 1481
Duncan, OK 73536-0100

to construct, install or modify a network of three monitor wells according to the procedures and conditions of the application number 86-425. The facility is located in S14, T55N, R99W in the county of Park, in the State of Wyoming. This permit shall be effective for a period of 2 years (5 years maximum) from the date of issuance of this permit.

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

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

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

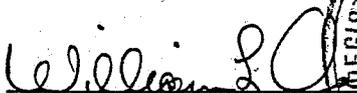
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

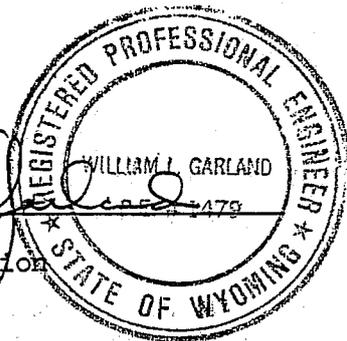
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer,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

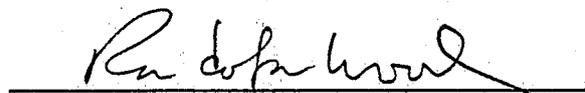
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

12-1-86
Date of Issuance

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

Conditions for Permit to Construct 86-425

1. Additional wells may be installed if prior approval is received from the Water Quality Division.
2. All monitor wells shall be constructed as specified in the application submittal.
3. Once the monitor wells have been completed, the owner will provide the Wyoming Department of Environmental Quality, Water Quality Division with a report that details the logs, locations, and construction specifications, of the completed wells.
4. The results of any analyses conducted on soil or water removed from these wells shall be provided to the department as soon as they are available.

(Continued)

Conditions to Permit to Construct 86-425 Continued

5. All monitor wells and soil borings will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations.
6. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
7. The time schedule for plan implementation as submitted in the November 18 proposal shall be adhered to. Drilling shall commence on or before December 12, 1986.
8. All wells shall be constructed with protective casing and locking caps. Keys for all monitoring wells shall be provided to the department within 30 days of completion of the project.
9. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required.
10. DEQ/WQD personnel shall be given sufficient notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.

cc: Jake Strohman, WQD
Steve Gerber, WQD

11-7-86



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 6, 1986

Steve A. Burford
Halliburton Services
Drawer 1431
Duncan, OK 73536-0100

RE: Permit application review for three monitor wells, #86-425,
at the Halliburton, Powell site

Dear Mr. Burford:

The Department of Environmental Quality (DEQ), Water Quality Division (WQD) is in receipt of your application for three monitor wells at the Halliburton site in Powell, Wyoming.

W.S. 35-11-301(a)(iii) requires a permit to construct, install modify or operate a facility capable of causing or contributing to pollution. A monitor well, if not constructed properly, could allow contamination of shallow aquifers. By glueing a riser on to the top of the casing, groundwater could become contaminated by solvents in the glue. Water quality data could therefore be jeopardized and additional monitor wells would be required. Also each time the riser is sawed off, the new level would have to be resurveyed. This method of construction does not lend itself readily to repeated sampling events.

In addition, the top perforation should be placed two to three feet above the highest expected groundwater level. Backfill with natural material and use of 1/2' diameter perforations may cause the well to silt in repeatedly. Also 4" or 3" PVC is preferred over 6" PVC.

In order for the department to issue the permit to construct monitor wells, the monitor well construction and installation specifications need to be resubmitted. The following items were found to be insufficient or missing in the application form:

1. Provisions for outer protective casing, locking caps, inside cap, and numbering of the wells.

2. Provisions for providing the Department with keys to the wells within 30 days of installation of the wells.
3. The highest expected groundwater table and provisions for installing the perforations two to three feet above this level.
4. A map detailing the site of the excavation; location of proposed and existing monitor wells and buildings; and direction of groundwater flow.
5. Smaller diameter perforations and compatible backfill, either gravel or frac sand.
6. Method of installation, namely size of hole and type of drilling rig.
7. Provisions for surveying the elevations of the tops of the casings.
8. Provisions for developing the wells prior to excavating three or more volumes for sample collection.

The department has the obligation of ensuring that progress is made toward abatement of the violation. To monitor the progress of this investigation, the department requests a time frame for plan implementation. Included in this time frame should be reasonable time limitations for the following:

1. Installation of the monitor wells and well development.
2. Sampling of the monitor wells.
3. Analyses of the samples.
4. Report submittal detailing all aspects of the investigation and recommendations for abatement of the violation.

Please note that sufficient notice should be given to the department prior to installation of the monitor wells and sample collection so that department personnel can be on site if deemed necessary.

Steve A. Burford
November 5, 1986
Page 3

If you have any questions, feel free to call me at (307)
777-7084.

Sincerely,

A handwritten signature in cursive script that reads "Matt Langenfeld".

Matthew M. Langenfeld
Groundwater Compliance Specialist

MML/nc

cc: William L. Garland
Jake Strohman
Steve Gerber
A. J. Mancini

run file
17

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-426R

Brennan Addition Water & Sewer Extensions
(Name of Facility)

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

Eileen G. Brennan

Rt. 1, Box 396C

Laramie, WY 82070

to construct, install, or modify a municipal water distribution and wastewater collection facility according to the procedures and conditions of the application No. 86-426R. The facility is located in NE1/4, NW1/4 S6, 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.

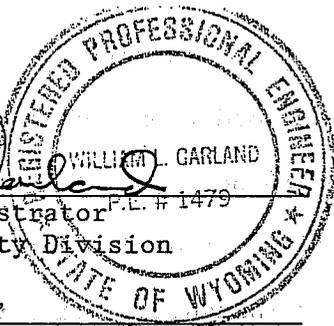
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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


William L. Garland
Administrator P.E. # 1479
Water Quality Division
11-24-86
Date of Issuance

Ray John Wood
Director
Dept. of Environmental Quality

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

cc: Charles Bartlett
Robert Jack Smith & Associates, Inc.
P.O. Box 1104
Rawlins, WY 82401

Hammond Land Surveying
P.O. Box 471
Laramie, WY 82070

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Brennan Addition Water & Sewer Extensions, Albany Co.

ARCHITECT OR ENGINEER: Charles Bartlett
Robert Jack Smith & Associates, Inc.
P O Box 1104
Rawlins, WY 82401

APPLICANT: Eileen Brennan
Rt. 1 Box 386C
Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 86-426

REVIEWING ENGINEER: Thomas S. Norman *TN*

DATE OF REVIEW: November 12, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. The application form must be signed by the owner.
2. The Wyoming Public Works Standard Specifications are not a complete set of specifications. Certain items are left to be specified for each particular project. Please refer to the guide and address those items that are relevant to this project.
3. There is a high point in the water line at Station 80+00. High points require an air release mechanism.
4. If a trailer park is to be connected to the public water and sewer system, it must be submitted to the Water Quality Division for authorization.

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.

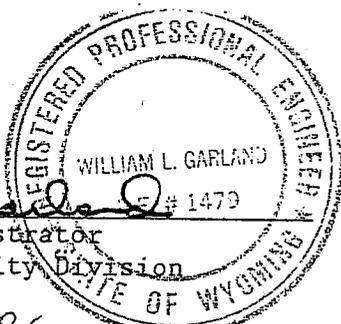
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

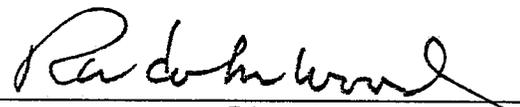
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:


Administrator
Water Quality Division
11-17-86
Date of Issuance




Director
Dept. of Environmental Quality

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

JN

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 86-428RR

Belmont Park Subdivision
(Name of Facility)

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

J.S. Construction
Richard Stadler
P.O. Box 314

Rock Springs, WY 82901

to construct, install, or modify a sanitary sewer collection system to service
a 32 lot subdivision

facility according to the procedures and conditions of the
application No. 86-428RR. The facility is located in

Sec. 33, T19N, R105W

in the County of Sweetwater,

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.

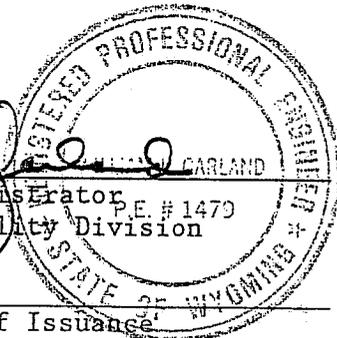
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator P.E. # 1470
Water Quality Division
1-14-87

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: Belmont Park Subdivision

ENGINEER: J.D. McDonald
Bush & Budgell, Inc.
555 South 3rd East
Salt Lake City, UT 84111

OWNER: J.S. Construction
Richard Stadler
P.O. Box 314
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 86-428R

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

DATE OF REVIEW: December 9, 1986

ACTION: Not authorized.

COMMENTS:

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

1. Sheet 10 of 10 still calls for the use of saddles for sewer service connections and clean outs. Saddles are unacceptable for new construction. Only wye or tee fittings are acceptable.

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Belmont Park Subdivision

ENGINEER: J.D. McDonald
Bush & Budgell, Inc.
555 South 3rd East
Salt Lake City, UT 84111

OWNER: J.S. Construction
Richard Stadler
P.O. Box 314
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: 86-428

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

DATE OF REVIEW: November 6, 1986

ACTION: Not authorized.

COMMENTS:

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

1. The cover letter provided with this application states that Pacific Power and Light Co. will be making application to this office for the permit to construct the water distribution system for this development. Yet, there are several plan details and sections of the specifications that pertain to the water distribution system. Please omit these details and sections from this package.

2. Sewer service connection to a new main must be made with a wye or tee fitting. Saddles are unacceptable for new construction.

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

Chey R7



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 21, 1986

Mr. Richard D. Goddard
Regulatory Affairs Supervisor
Exxon Company, USA
P O Box 1600
Midland, TX 79702

RE: Exxon Shute Creek Plant Hydrocarbon Monitor Wells, WQD Reference #
86-429.

Dear Mr. Goddard:

Enclosed is a signed copy of the permit to construct authorizing Exxon to convert the existing collection sump at the Shute Creek Gas plant into a groundwater monitoring well. Please note condition 3 of the permit which requires that the results of quarterly hydrocarbon analysis shall be submitted to the:

Groundwater Section
Wyoming Department of Environmental Quality
Water Quality Division
4th Floor West Wing, Herschler Building
Cheyenne, Wyoming 82002

Thank you for your attention to this matter.

Sincerely,

Katherine J. Laudon

Katherine J. Laudon
Groundwater Engineering Evaluator

KJL/jt

cc: Jake Strohman, DEQ/WQD

2
JR

PERMIT TO CONSTRUCT

PERMIT NO. 86-429
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Exxon Shute Creek Plant Hydrocarbon Monitoring Well

This permit hereby authorizes the applicant:

Exxon Company USA
Attn: R D Goddard
P O Box 1600
Midland, TX 70702

to construct, install or modify one monitoring well according to the procedures and conditions of the application number 86-429. The facility is located in S14, T22N, R112W in the county of Lincoln, in the State of Wyoming. This permit shall be effective for a period of one year (5 years maximum) from the date of issuance of this permit.

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

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

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

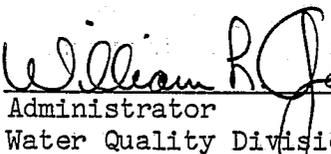
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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted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

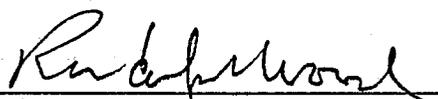
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

12-1-86
Date of Issuance

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

Conditions for Permit to Construct 86-429

1. Upon termination of monitoring this well will be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Water Quality Division Rules and Regulations.
2. Within 15 days after the well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.

Conditions for Permit to Construct 86-429 Continued

3. The well will be monitored quarterly for the presence of hydrocarbon. Results of the quarterly monitoring shall be submitted to the:

Groundwater Section
Wyoming Department of Environmental Quality
Water Quality Division
Herschler Building, 4th Floor West
Cheyenne, WY 82002

cc: Jake Strohman, WQD
Jack Bedessen, WQD, Lander
Tom Williams, WQD, Cheyenne



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 20, 1986

Jerry Miller
City of Rawlins
P.O. Box 953
Rawlins, WY 82301

RE: Permit to Construct Application Number 86-430R

Dear Mr. Miller:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (#86-430R) for a permit to construct a municipal water supply transmission line for the City of Rawlins at NE1/4, Section 30 and SE1/4, Section 19 and SW1/4, Section 20, T21N, R87W. The Water Quality Division has determined that the system meets the minimum design standards.

Nothing in this letter constitutes an endorsement of the construction or the 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 letter. 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 letter, the state does not in any way waive its sovereign immunity.

Since your system has already been constructed, a permit to construct cannot be issued. This letter is your record that the water supply line installed meets minimum state specifications and has been approved by the Wyoming Department of Environmental Quality, Water Quality Division.

Sincerely,

William L. Garland
Administrator

WLG/TSN/nc

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Tank Farm Supply Line, Carbon Co.

ARCHITECT OR ENGINEER: Rex Behrends
Civil Engineering Professionals Inc.
400 E. 1st, Suite 311
Casper, WY 82601

APPLICANT: City of Rawlins
P O Box 953
Rawlins, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 86-430

REVIEWING ENGINEER: Thomas S. Norman *TSN*

DATE OF REVIEW: November 12, 1986

ACTION: AS-BUILTS NOT AUTHORIZED.

COMMENTS:

- 1. An application form (attached) needs to be submitted.
- 2. Three copies of the plans are required.
- 3. Please reference which specifications were used.
- 4. The plans were not signed by a Wyoming Registered Professional Engineer.

nc

Run file JF

PERMIT TO CONSTRUCT

New

Permit No. 86-431R

Renewal

Modified

Messenger Court Sewer & Water Line
(Name of Facility)

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

Cheyenne Board of Public Utilities

2100 Pioneer Avenue

Cheyenne, WY 82002

to construct, install, or modify a municipal water distribution and wastewater collection facility according to the procedures and conditions of the application No. 86-431R. The facility is located in SE1/4 S27, T14N, 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.

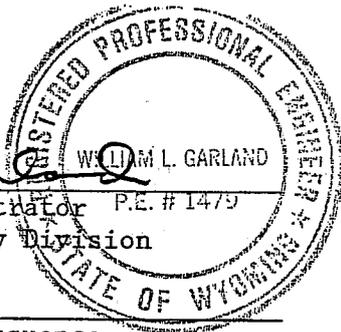
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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


William L. Garland
Administrator P.E. # 1479
Water Quality Division
11-25-86
Date of Issuance

Richard Wood
Director
Dept. of Environmental Quality

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

cc: James S. Willey
Engineering Inc.
1603 Central Ave., Suite 201
Cheyenne, WY 82001

*Running File
as-Built*



THE STATE

OF WYOMING

APPROVED



Department of Environmental Quality

Air Quality Division
(307) 332-3144

Land Quality Division
(307) 332-3047

Solid Waste Management Program
(307) 332-3144

Water Quality Division
(307) 332-3144

May 8, 1989

Johnson-Fermelia Co., Inc.
ATTN: Mr. Kenneth L. Wilbert, P.E.
1515 Ninth Street
Rock Springs, WY 82901

RE: Clearview Improvement and Service District
Sanitary Sewer Improvement Project
WQD Reference No. 86-432

Dear Mr. Wilbert:

This letter is in response to your correspondence dated February 22, 1989 requesting as-built acceptance for the above referenced facility. I apologize for the untimely response and am happy to finally bring this long term project to an end.

The as-built plans and specifications submitted were found to meet the State of Wyoming's minimum design standards for sewerage systems. The system plans are therefore approved as-built. A permit to construct cannot be issued due to the fact that the system has already been constructed. Please retain a copy of this letter in your files as proof of this acceptance.

Sincerely,

Bill Locke

Bill Locke, P.E.
Southwest District Supervisor

cc: Clearview Improvement & Service District
Larry Robinson, DEQ/WQD, Cheyenne
Construction Plans 86-432

CONVERSATION

DATE 5-10-89

NAME _____

COMPANY Clearview Improvement

ADDRESS _____

PHONE NO. _____

86-432

TOPIC: _____

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

Permit issued for new construction in April, 1987.

As built plans on old construction were to be submitted within 30 days of permit (written up as condition of permit).

Because of negotiation problems with consultant, Larry R., Jack B & other people, as built plans were finally submitted @ May 1989. Approved by Bill Locke 5/8/89.

Called to inquire as to whether or not they had an as-built set for archives, Norene/Bill said they had to check on it. ~~XXXX~~ (They weren't sure if it had been sent to archives already.) ~~XXXX~~ I checked our records. We have a record of 86-432 being sent to archives @ middle of 1988. Nothing on as built part as yet.

SIGNATURE he

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.

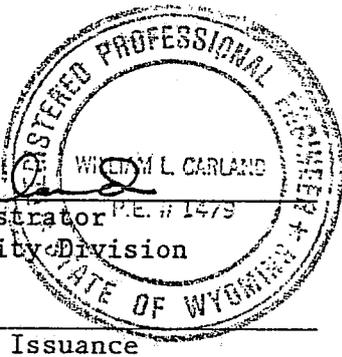
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

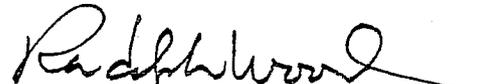
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 P.E. # 1479
Water Quality Division
4-15-87
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 *

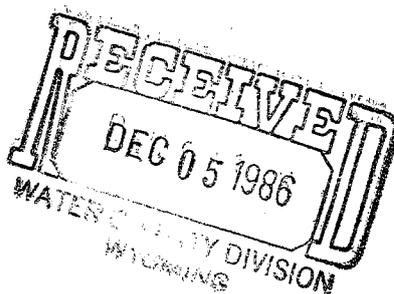
1. Within 30 days following completion of construction, provide this department with a comprehensive field report with referenced plans which describe the observed sanitary sewer and water line conditions. The report should include, at a minimum, the following information: pipe sizes and material, deflections, condition, infiltration/exfiltration, grades, separation distances, and remedial action recommendations.

2. Water and sewer line crossings discovered to be inadequate, shall be corrected or encased according to Water Quality Rules and Regulations, Chapter XI, within the limits of the available contingency funds. If concrete encasement is to be utilized, it shall be constructed with adequate reenforcement to resist cracking. Nonconforming separation distances or conditions which are observed during construction shall be addressed in the field report of the first condition.

3. Any sanitary sewer collection lines and water distribution lines serving the 17 unit North Mancamp or 30 unit South Mancamp which are currently tied to the Clearview Improvement District systems shall be permanently disconnected and plugged or demolished. The DEQ/WQD, Lander office (332-3144) shall be contacted at least 7 days prior to performing the permanent disconnections.

4. Clearview Improvement and Service District shall develop a policy to upgrade water and sewer service connections on individual and rental lots as they become accessible. The service connections shall be upgraded on an ongoing basis to comply with Water Quality Rules and Regulations, Chapter XI, Part F. A brief description and outline of this policy shall be submitted to this department within 30 days following completion of construction.

Cancel 84-370
Cleared Acres
Being carried
under 86-432



Norma

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Clearview Improvement & Service District
Sanitary Sewer Project

ENGINEER: Wayne Johnson
Johnson-Fermelia Co., Inc.
1515 Ninth Street
Rock Springs, WY 82901

OWNER: Clearview Improvement & Service District
P.O. Box 2634
Rock Springs, WY 82902

WATER QUALITY DIVISION REFERENCE NUMBER: 86-432

REVIEWING ENGINEER: Jack Bedessem *JB*

DATE OF REVIEW: November 26, 1986

ACTION: Not authorized.

COMMENTS:

The Clearview Improvement and Service District has made considerable progress towards improving the utilities which serve their area. A review of the plans and specifications indicates that the proposed project should bring the specified collection system into compliance with applicable Water Quality Rules and Regulations (WQRR). The following comments summarize my review:

1. The construction plans and specifications must be stamped and signed by a registered Wyoming Professional Engineer.

2. Water Quality Rules and Regulations, Chapter XI, Section 6 requires that an engineering design report be included with the project. Note that the report must include a letter of acceptance from the municipality/owner of the downstream treatment facilities. The report should also include current and projected flow rates from the various service areas.

3. It is the understanding of this department that the purpose of this project is to connect the existing sewerage services to the City of Rock Springs and also upgrade the existing sewage collection system to conform to applicable WQRR. To bring the existing sewage collection system into complete conformance, adequate separation distances must be maintained between the water and sewer lines. Address the plan for determining existing separation distances and realigning as necessary.

4. A note on the plans states that the depth and grade of the existing sewer lines is unknown and to be determined by the contractor. The specifications require the contractor to clean, inspect (TV) and record data concerning the condition of existing lines.

Provide a plan for reporting the inspection results, relocation replacement and/or regrading of existing sewer lines which are found to have inadequate depth, slope and separation distances.

5. Clarify exactly what improvements (replacement, manhole, etc.) are planned for the dead end sewer lines located in blocks 7, 8, 9 and 10. The plans indicate that these service lines are add alternatives 7 and 7A. These lines are considered sewer collection lines and therefore subject to conformance with WQRR, Chapter XI, Section 9(c).

6. Page 02550-4 and typical details of the specifications refer to manhole steps. To conform to WQRR, OSHA and ANSI standards, it should be specified that the maximum step spacing be 12 inches.

7. The majority of the residences within this subdivision consist of mobile homes or owned or rented lots. Address the plan for upgrading water and sewer service risers to conform with WQRR, Part F. The construction plans should include details of water and sewer service risers.

8. Does the Clearview Acres Improvement and Service District control the utilities serving the 15+ unit travel trailer camp located west of the roller rink and the 30+ space south mancamp? If so address plans for upgrading or abandoning the facilities.

9. The plans indicate that Ray Black's mobile home park will be connected to the main collection line. Address the condition and whether the sewage collection system serving this mobile home park will also be upgraded to conform to WQRR. "As Built" acceptance and/or upgrading modifications of this collection system will require an additional application for "Permit to Construct".

10. A letter from Clearview Improvement and Service District dated November 18, 1986 states that Ray Black and Jim Martin would take the responsibility to reclaim their respective lagoons. We do not wish to hold up the permitting of this project, however a detailed closure plan/schedule for each lagoon will need to be submitted for approval prior to reclamation. Refer to my letter dated November 12, 1986 regarding reclamation requirements.

11. A letter from Clearview Improvement and Service District dated November 18, 1986 mentioned that the Water Development Commission grant application had been combined with the City of Rock Springs for source development. Address whose responsibility/time frame for submitting water system (source, treatment and distribution) "as built and upgrading plans".

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. I am available to meet with you if you feel that it would be beneficial.

cc: Larry Robinson, DEQ/WQD, Cheyenne

run file

JR

LAND APPLICATION PERMIT

Permit No. 86-433
SEE SPECIAL CONDITIONS

D & B Services, Inc. Land Application
(Name of Facility)

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

D & B Service, Inc.

Daniel E. Rinker

P.O. Box 148

Mountain View, WY 82939

to land apply approximately 810 cubic yards of solids from drilling muds as fill in a driveway approach. The application site is located in S30 & 31, T15N, R115W 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 standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards 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 disposal method described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

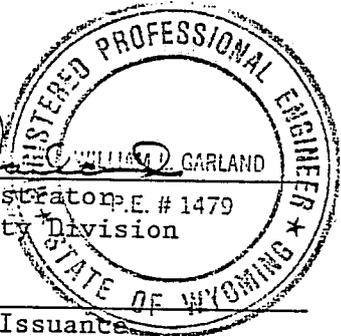
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions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

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 D. Garland



Administrator
Water Quality Division

11-24-86

Date of Issuance

R. John Wood

Director
Dept. of Environmental Quality

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

5

RA
52

PERMIT TO CONSTRUCT

PERMIT NO. 86-434
SEE SPECIAL CONDITIONS

- New
- Renewal
- Modified

NEWCASTLE WASTEWATER TREATMENT FACILITY

This permit hereby authorizes the applicant:

City of Newcastle
10 West Warwick
Newcastle, Wyoming 82701

to construct, install or modify a three cell municipal wastewater treatment (lagoon) system according to the procedures and conditions of the application number 86-434. The facility is located in NE $\frac{1}{4}$, Section 35, T45N, R62W in the county of Weston, in the State of Wyoming. This permit shall be effective for a period of Two (2) (5 years maximum) from the date of issuance of this permit.

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

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

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

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

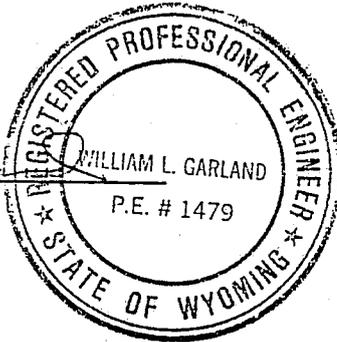
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue Sheridan, Wyoming 82801; telephone (307) 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 invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

6-3-87

Date of Issuance

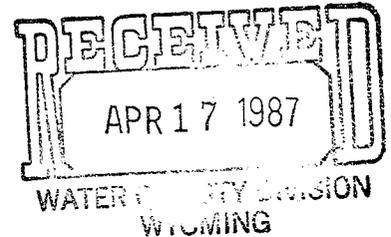
This permit does not supercede the requirements for obtaining any permit from local agencies.

Special Conditions for Permit to Construct 86-434

1. The treated effluent from this facility shall be land applied. The City of Newcastle shall make an application to the Wyoming Department of Environmental Quality for a Land Application Permit. No land application of treated effluent shall be allowed until the City has been issued the required Land Application Permit.

Norma

MEMORANDUM



TO: Wally Koch, Engineering Evaluator
Review File 86-434R

FROM: *SA* Susan Fields, Acting Northeast District Supervisor

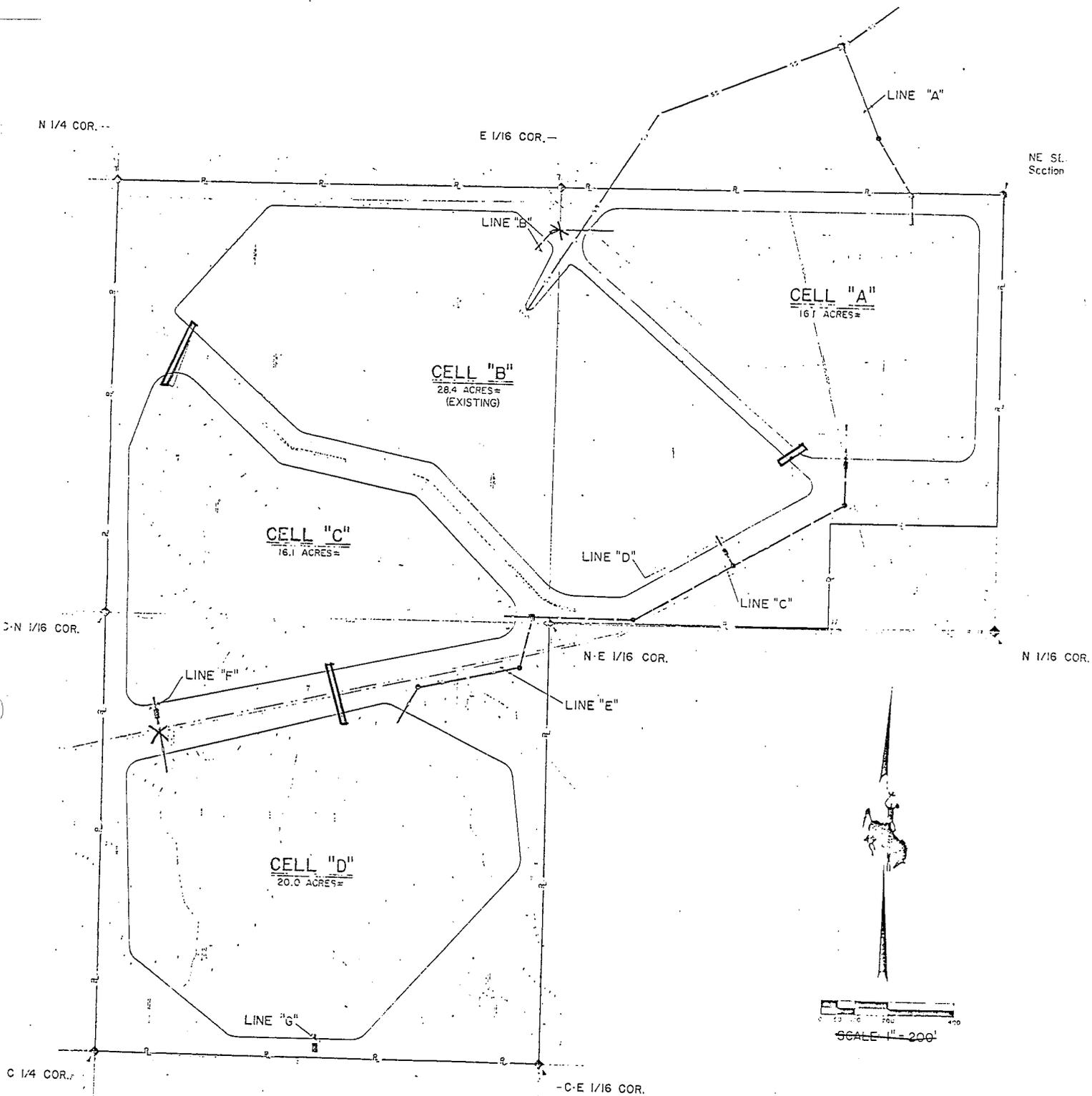
DATE: April 15, 1987

SUBJECT: Review Comments on Modifications to Newcastle Sewage Treatment Facility

- 1). The irregular cell shapes make short circuiting and dead zones very likely, particularly with the way the interconnecting piping is laid out. Justification for the cell shapes and constructability of these shapes should be addressed. If the cells must maintain the shapes shown, the piping should be rearranged to provide more even distribution of incoming sewage. Cells "B" and "C" appear especially susceptible. A suggested layout is attached, assuming that normal operation will be Cells "A", "B", "C" and "D", in series. This arrangement does not work very well in conjunction with the bypass piping layout, but providing for best distribution under normal operation is more important.
- 2). The invert elevation of the pipe inlet to Cell "A" should be at the pond bottom, 4105.00, not below it. The elevations and slopes of the final run of inlet piping should be adjusted accordingly. This is also true for the inlet to Cell "C" from Line "C" and the inlet to Cell "D" from Line "E".
- 3). The slopes on the profiles are shown incorrectly as percent. The values shown are actually in feet per 100 feet of pipe. These units should be changed to correctly represent the values shown.
- 4). The Diverter Box details on Sheet 5 are not clear. What is the configuration of the flow lines, circular or rectangular? Are the benches poured concrete and are they solid from the wall of the box to the flow channel? The benches should be sloped to provide drainage should the weir plates overtop.
- 5). Some type of sealing gasket will be needed in the slots for the sectional weir plates on all structures.
- 6). The drawoff elevations for the interconnecting piping between cells should be greater than 0.5 feet above the pond bottom. Something on the order of two feet from the bottom would be more appropriate.
- 7). What purpose does the lip on the splash blocks serve? Won't this cause buildup of solids at the pipe outfalls?
- 8). The invert elevations on the detail for Control Vault "C" do not match what is shown on the profile.

Wally Koch
April 15, 1987
Page Two

- 9). The configurations of and type of lids specified for the control vaults do not allow for operation of the weir plates without entering the vaults. The shallow depths of the diverter boxes probably would make entry impossible. All the vaults should have access to the weir plates without entering the chamber.
- 10). How will future irrigation piping be installed at Control Vault "G"? Provisions should be provided now for this installation.
- 11). Some type of shut-off valve should be provided on the outlet to Control Vault "G". Wooden slats invariably leak and a means for controlling such leakage must be provided.
- 12). The 48" precast manhole detail should be clarified to indicate that the flow line is open throughout the manhole diameter.
- 13). I question the structural design of the control vaults and diverter boxes. Is a one foot thickness necessary on the shallower structures? Won't reinforcing bar be necessary to support the roofs on all these structures?
- 14). Section 770 of the specifications addressing disposal of vehicles contained in the existing Cell "B" must be amended to prohibit direct discharge of the irrigation pond. The water in this pond should be pumped into one of the new cells in lieu of surface discharge.
- 15). No provisions are given for permeability testing of the cells. A minimum of one test per acre of cell surface should be conducted to verify the maximum seepage rate of 1/8 inch per day.
- 16). It is stated that the facility effluent will be used for irrigation. To my knowledge no Land Application Permit has been obtained. This process should be initiated to verify that land application is a feasible alternative. Is land available for irrigation? Is the landowner committed to using the water? What are the consequences if no irrigation occurs? Who is to bear the cost of providing the irrigation intake and associated piping?
- 17). I am assuming that design flows and loadings have been adequately addressed in previous reviews. I conducted no review of these items. I will say that these lagoons seem very large for a community of Newcastle's size.



LEGEND

- ◆ BRASS CAP PROPERTY CORNER
- ⊙ SET STONE PROPERTY CORNER
- FACILITIES BOUNDARY

Byun

MEMORANDUM

TO: Wally Koch
Engineering Evaluator

FROM: Chris Norman
Engineering Evaluator



DATE: November 25, 1986

SUBJECT: 86-434 Newcastle Wastewater Treatment Plant, Groundwater Review

The applicant is required, Chapter III, Section 15, to: (a) provide documentation that the facility poses no threat to groundwater or (b) perform a subsurface investigation. The application as submitted, does not address either a or b.

To satisfy that the facility poses no threat to groundwater, the applicant shall demonstrate:

- a. Facility construction will not allow a discharge to groundwater (impervious liner).
- b. The quality of wastewater will not cause any violation of groundwater standards.
- c. Existing soils or geology will not allow a discharge to groundwater.

If the applicant cannot document the above, then a subsurface investigation should be performed. The applicant should be directed to page 12 and 13 of Chapter III for the type of information needed.

It is recommended that the applicant sample any existing upgradient wells completed in the shallow most water bearing zone. The shallow groundwater quality can then be classified and it may be determined if the discharge from the waste ponds would cause a violation of groundwater standards.

nc

cc: Jake Strohman

running file
JS

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-435
Ref. No. 85-453

Cheyenne Husky/Flying J Corporation Car/Truck Terminal Facility
(Name of Facility)

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

Groundwater Technology/Jim Goetz

6879 South Emporia Street

Englewood, CO 80112

to construct, install, or modify a subsurface hydrocarbon recovery well system facility according to the procedures and conditions of the application No. 86-435. The facility is located in S1, T13N, R67W in the County of Laramie, 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.

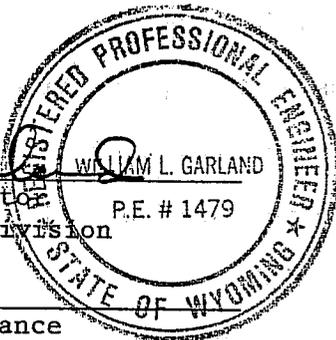
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

A circular seal for a Registered Professional Engineer in the State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the top and "STATE OF WYOMING" around the bottom. In the center, it reads "WILLIAM L. GARLAND" and "P.E. # 1479".

William L. Garland
Administrator
Water Quality Division
11-20-86
Date of Issuance

Rudolph Koval
Director
Dept. of Environmental Quality

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

cc: Vincent Memmott, Manager Engineering Services
Flying J Corporation
333 West Center
North Salt Lake City, UT 84054

575

LAND APPLICATION PERMIT

PERMIT NO. 86-436
SEE SPECIAL CONDITIONS

Amoco - Bairoil Road Application

This permit hereby authorizes the applicant:

Amoco Production Company
P O Box 2520
Casper, WY 82602

to land apply 2,000 barrels of tank bottom sludges from the Wertz and Lost Soldier Fields to road surfaces owned by Amoco. The application site is located in S1 and S10, T26N, R90W in the county of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of one (1) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

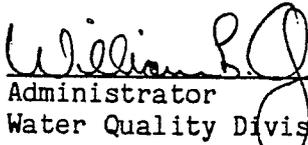
Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The state assumes no liability for, and does not in any way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

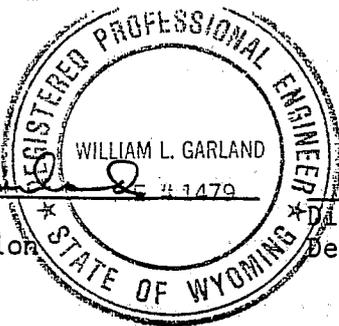
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions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

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
Department of Environmental Quality

12-11-86
Date of Issuance

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

CONDITIONS ON PERMIT 86-436

1. The application site slope shall not exceed 8 percent for vehicular application.
2. Wastewater application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
3. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, 210 Lincoln Street, Lander, WY 82520, phone number 332-3144, to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of discharges and must be informed how much wastewater will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
4. Waste oil and sludges applied to a road will be mechanically incorporated into the road bed as it is applied. Wastes will not be applied when temperatures are too cold to facilitate good incorporation into the road surface.

Cheyenne file JS

PERMIT TO CONSTRUCT

New

Permit No. 86-437R

Renewal

Modified

Wyo. State Honor Farm, 1986 Sewer Improvements
(Name of Facility)

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

Wyoming State Honor Farm

P.O. Box 32

Riverton, WY 82501

to construct, install, or modify a new sewage collection line to serve hog barns

and modification to lagoon distribution piping

facility according to the procedures and conditions of the

application No. 86-437R. The facility is located in

SE $\frac{1}{4}$, Sec. 14, T1N, R3E, Wind River Meridian

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.

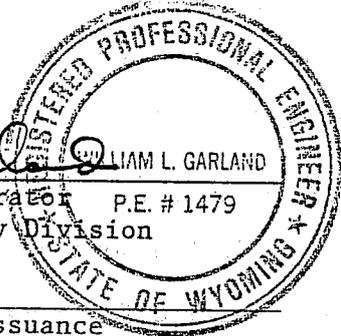
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

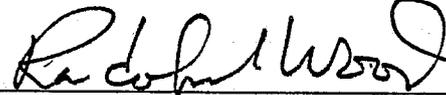
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:


Administrator P.E. # 1479
Water Quality Division
12-02-84
Date of Issuance




Director
Dept. of Environmental Quality

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

norma

MEMORANDUM

TO: Plans, 86-437
FROM: Jeff Hermansky 
SUBJECT: Phone Review of Wyo. Honor Farm Sewage Improvements
DATED: November 19, 1986

On November 18, 1986 I conducted a phone review of 1986 sewage system improvements to the Wyoming State Honor Farm with the project engineer, Jerry Crews. I discussed the following with Jerry:

1. Is corrugate steel pipe rigid enough to prevent excessive deflection at the aerial crossing? Jerry said he checked the tables that the pipe salesman had for the pipe. He found that the maximum deflection with the pipe flowing full was less than allowable and is therefore O.K. for the span.

2. Jerry and I discussed the increased loading on the lagoons due to the flow from the hog operation. We agreed that the sludge build-up could cause removal to be necessary and the increased flow could fill the lagoons. However, the discharge violation must be stopped now and the lagoon capacity could be addressed in the future. Jerry told the superintendent another lagoon could be necessary in the future.

3. I told Jerry the 2" PVC pipe from Cottonwood Court needed to be shown in the specifications.

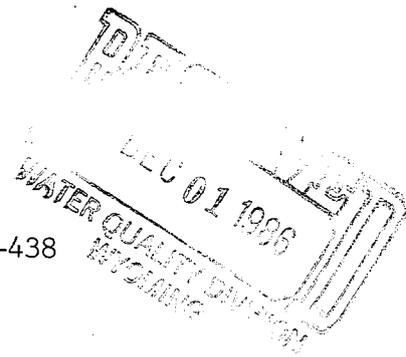
4. I told Jerry a detail of the carrier pipe termination at the abutments needs to be detailed.

JH/jw

Wema

MEMORANDUM

TO: Wally Koch
FROM: Jeff Hermansky *JH*
SUBJECT: Review of Riverton Airport Septic System, 86-438
DATED: November 24, 1986



I have reviewed the plans for the proposed improvements to the Riverton airport septic system. These plans were prepared in 1981 and are apparently based on guidelines in the "Manual of Septic Tank Practice" which was published by the U.S. Public Health Service.

The design information supplied on sheet 2 of 3 doesn't appear to be realistic. The design flow of 12,720 gpd would be suitable for a restaurant serving nearly 1000 meals per day. I would be surprised if the airport restaurant serves 100.

The splitter box and piping to the disposal trenches seems to be extremely difficult to construct and more extensive than necessary.

In general, I feel the engineer needs to review the entire project to make sure the plans and specifications meet Chapter XI Regulations. Furthermore, I feel the projected flows for the facility need to be substantiated in a design report that also address each element of the system, including the grease trap, existing septic tank, dosing system, new septic tank, distribution box and disposal field.

JH/jw

Memo

File

A J Mancini

From

Nov. 25, 1986

Date

Subject

Review of Application 86-438, Riverton
Airport Septic System

The subject application was received for review Nov. 24, 1986. The application is for a permit to construct a new dosing tank downstream of an existing septic tank and new leach field. The design volume of wastewater shown on the application is 12,720 gpd. Lander WQD has questioned the flow volume, and asked CMAG (lead for this project, according to Lander WQD) to verify the flow volume.

No groundwater information has been submitted with the application. If the volume is verified as being 2000 gpd or greater, the applicant is required to document that the proposed construction poses no threat to groundwater, based on the criteria of WQD Chapter III, Section 15.a. If documentation cannot be provided, a subsurface study shall be provided as part of the permit application.

If the flow volume is verified as 2000 gpd or more, and documentation of no threat to groundwater cannot be provided, the concern for groundwater protection will be minimized if it can be shown that the actual or potential use of shallow groundwater is not domestic use. It is suggested that the applicant inventory shallow well-water use within one-half mile of the proposed construction. If no domestic-use wells are found, applicant should obtain a sample of shallow groundwater from an unaffected upgradient location and have it analyzed for domestic-use suitability. At a minimum, the analysis should include TDS, $\text{NO}_3\text{-N}$ and $\text{NH}_3\text{-N}$. If the water is not suitable for domestic use, a subsurface study will not be required.

W
J

PERMIT TO CONSTRUCT

PERMIT NO. 86-439RR

X New
Renewal
Modified

Sage Creek Transmission Pipeline and Wellfield Facilities

This permit hereby authorizes the applicant:

City of Rawlins
P O Box 953
Rawlins, WY 82301

to construct, install or modify municipal water transmission line and wellfield according to the procedures and conditions of the application number 86-439RR. The facility is located in S11,14,23,26,35,36. T20N. R88W, S1.2,11,14,23,25,26,35,36. T19N, R88W, S2.3,10. T18N, R88W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of 2 years (5 years maximum) from the date of issuance of this permit.

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

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

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

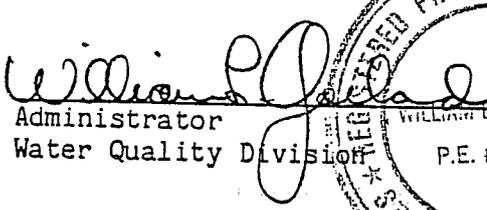
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

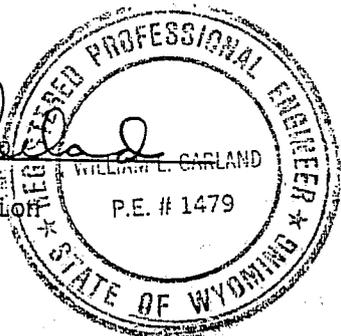
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

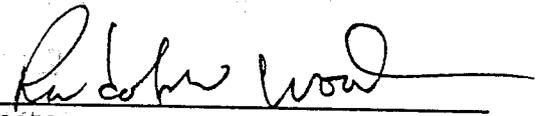
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

3-5-87

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
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Rawlins - Sage Creek Water Transmission Line and Nugget Wellfield

ARCHITECT OR ENGINEER: James M. Montgomery, Consulting Engineers Inc.
161 Mallard Drive, Boise, ID 83706-3974

APPLICANT: City of Rawlins,
P.O. Box 953, Rawlins, WY 82301

WATER QUALITY DIVISION REFERENCE NUMBER: 86-439

REVIEWING ENGINEER: Thomas S. Norman, Southeast District Supervisor
TSN

DATE OF REVIEW: December 02, 1986

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. The pipe pressure ratings were not identified for the different sections of the transmission line.
2. The lines must be tested at 125% of working pressure.
3. The leakage tests must be consistent with AWWA.
4. What are the pressure ratings for the valves?
5. The water wells must be permitted.
6. The wells must have the capability of pumping to waste.
7. The well water must be able to be chlorinated.
8. The access manholes must be placed every 1,000 feet.
9. Is the water treated after it leaves the reservoirs?
10. Are there any raw water service lines?
11. Are there thrust block requirements?
12. Sheet 30. The air release valve is not shown on the plan view at Station 10+75.
13. Sheet 31. The blowoff is not shown on the profile view at Station 15+20.

14. Sheet 32. The air release valves are not shown on the plan view at Stations 23+75 and 27+70 on the 8-inch line.
15. Sheet 34. Why isn't there a check valve on the 12-inch pipe line going through the vault?
16. Sheet 34. Shouldn't the blind flanges have thrust protection?
17. Sheet 38. The exhaust on the air vacuum and release valve must be turned down and screened.

can

Chry. Rem file 25

PERMIT TO CONSTRUCT

PERMIT NO. 86-440
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

Calvaryman Wastewater System

This permit hereby authorizes the applicant:

Calvaryman, Inc.
P O Box 1088
Laramie, WY 82070

to construct, install or modify commercial subsurface wastewater treatment and disposal system according to the procedures and conditions of the application number 86-440. The facility is located in SW S16, T15N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of 2 (5 years maximum) from the date of issuance of this permit.

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

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

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

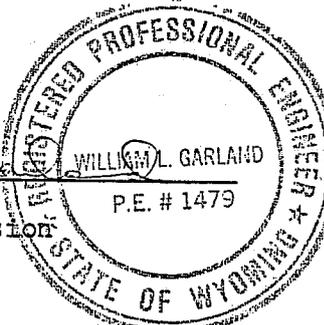
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division

Rudolph Wood
Director
Department of Environmental Quality

December 9, 1986
Date of Issuance

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

CONDITIONS FOR PERMIT TO CONSTRUCT 86-440

The permittee shall notify the Albany County Planning Office, 405 Grand Avenue, Laramie, Wyoming 82070, phone number 721-5288, of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.

cc: Donald R. Lamb
Associated Engineers
609 South 2nd
Laramie, WY 82070

Albany County Planning Office
405 Grand Ave.
Laramie, WY 82070

Chry. Rev file JF

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 86-441R
SEE CONDITION ON BACK

TOWN OF EDGERTON, WASTEWATER TREATMENT FACILITIES MODIFICATIONS
(Name of Facility)

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

Town of Edgerton

P.O. Box 407

Edgerton, Wyoming 82635

to construct, install, or modify a domestic wastewater treatment facility according to the procedures and conditions of the application No. 86-441R. The facility is located in Section 29, T.40N., R.78W., 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.

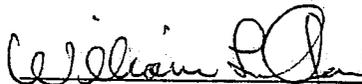
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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, 2161 Coffeen Avenue, Suite 601, Sheridan, Wyoming 82801; telephone, 672-6457.

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

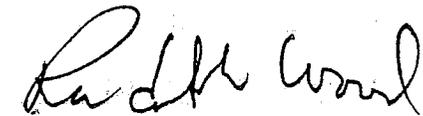
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator P.E. # 1479
Water Quality Division





Director
Department of Environmental Quality

1-7-87

Date of Issuance

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

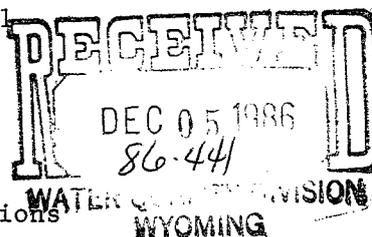
CONDITION

The Town is required to maintain its NPDES permit in light of potential discharges from the modified facility. Any discharges from the facility during construction must be monitored and reported.

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

REVIEW OF PLANS AND SPECIFICATIONS

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



PROJECT: Town of Edgerton
Wastewater Lagoon Modifications

ARCHITECT OR ENGINEER: Terry Titus, P.E.
Worthington, Lenhart, Carpenter & Johnson, Inc.
632 South David Street
Casper, Wyoming 82601

WATER QUALITY DIVISION
REFERENCE NUMBER: 86-441

REVIEWED BY: Susan Fields *SV*

DATE OF REVIEW: December 3, 1986

ACTION: Not Authorized

COMMENTS:

- 1) In order to evaluate the appropriateness of an allowable 1/8-inch/day seepage rate, the ambient groundwater quality must be documented. The drill logs indicate that DH-3, 6 and 9 were left open as observation wells. A sample should be collected from DH-9 and analyzed for the parameters listed on the attached sheet, with the exception of the radionuclides. The analysis will establish the groundwater classification and assist in assuring that seepage from the lagoons will not degrade the ambient quality.
- 2) The design seepage rate of 1/8-inch/day seems inconsistent with the designed 1 foot thick bentonite mix liner. The water balance calculations should be based on the actual losses expected from the designed liner installation.
- 3) At the specified frequency of liner testing, it appears that a total of approximately two tests will be run on the new pond bottoms and three tests run on the new embankments. Although the information supplied by Rich Ruyle on the barrel method of exfiltration testing specifies this frequency, one test per acre of lined area is a more appropriate value. The document supplied by Rich was intended more as a guideline for the methodology only.
- 4) I understand the existing west cell has not been cleaned of accumulated sludge. Handling of sludge is not addressed in the specifications. Is it planned to leave the material in place and fill on top of it or will the material be removed? It may be appropriate to address the need for drying the material in the existing cells prior to filling. If removal is planned, special testing and disposal techniques need to be specified.

- 5) Chapter XI of the Water Quality Rules and Regulations states that "the inlet pipe to the primary cell shall terminate at a point away from the outlet by a distance of at least equal to or greater than 2/3 of the longest lagoon dimension." The proposed inlet to Pond No. 1 does not meet this criteria. It may be a good idea to evaluate using the existing inlet to the west cell as the inlet for the new Pond No. 1. In general, the pond inlets could be better located to eliminate short-circuiting.
- 6) The New Pond Inlet Detail on Sheet 3 shows the proposed pond bottom elevations at 4840.8. This does not match the elevations from Sheet 1. The inlets should also be located at the bottom of the cells.
- 7) The inlet detail does not show the bury depth on the inlet piping to Ponds 1 and 2. Are the pipes to be laid level from the inlet manhole to the ponds?
- 8) The pond outlets and outlet control structures provide no way to drain the ponds completely.
- 9) The grades and tie in elevations on the proposed outfall sewer are unclear. It may be best to provide a profile of this sewer showing tie ins of each outlet control structure and connection to the existing pipe.
- 10) The outfall structure tie ins from Ponds 1 and 3 should be specified. Are they cut into the outfall sewer or are wyes to be installed?

TABLE I

UNDERGROUND WATER CLASS Use Suitability Constituent or Parameter	I Domestic Concentration*	II Agriculture Concent.*	III Livestock Concent.*
Aluminum (Al)	---	5.0	5.0
Ammonia (NH ₃ -N)	0.5 ⁸	---	---
Arsenic (As)	0.05	0.1	0.2
Barium (Ba)	1.0	---	---
Beryllium (Be)	---	0.1	---
Boron (B)	0.75	0.75	5.0
Cadmium (Cd)	0.01	0.01	0.05
Chloride (Cl)	250.0	100.0	2000.0
Chromium (Cr)	0.05	0.1	0.05
Cobalt (Co)	---	0.05	1.0
Copper (Cu)	1.0	0.2	0.5
Cyanide (CN)	0.2	---	---
Fluoride (F)	1.4-2.4 ⁷	---	---
Hydrogen Sulfide (H ₂ S)	0.05	---	---
Iron (Fe)	0.3	5.0	---
Lead (Pb)	0.05	5.0	0.1
Lithium (Li)	---	2.5	---
Manganese (Mn)	0.05	0.2	---
Mercury (Hg)	0.002	---	0.00005
Nickel (Ni)	---	0.2	---
Nitrate (NO ₃ -N)	10.0	---	---
Nitrite (NO ₂ -N)	1.0	---	10.0
(NO ₃ +NO ₂)-N	---	---	100.0
Oil & Grease	Virtually Free	10.0	10.0
Phenol	0.001	---	---
Selenium (Se)	0.01	0.02	0.05
Silver (Ag)	0.05	---	---
Sulfate (SO ₄)	250.0	200.0	3000.0
Total Dissolved Solids (TDS)	500.0	2000.0	5000.0
Uranium (U)	5.0	5.0	5.0
Vanadium (V)	---	0.1	0.1
Zinc (Zn)	5.0	2.0	25.0
pH	6.5-9.0s.u.	4.5-9.0s.u.	6.5-8.5s.u.
SAR	---	8	---
RSC	---	1.25 meq/l	---
Combined Total			
Radium 226 and			
Radium 228 ⁹	5pCi/l	5pCi/l	5pCi/l
Total Strontium 90	8pCi/l	8pCi/l	8pCi/l
Gross alpha particle radioactivity (in- cluding Radium 226 but excluding Radon and Uranium) ⁹	15pCi/l	15pCi/l	15pCi/l

*mg/l, unless otherwise indicated

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.

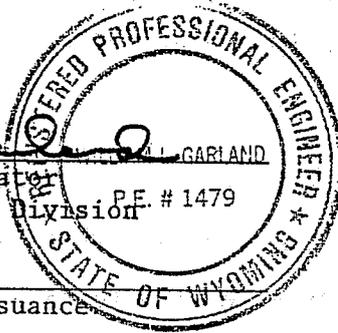
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:

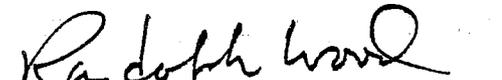


Administrative
Water Quality Division



3-19-87

Date of Issuance



Director
Dept. of Environmental Quality

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

2/2

PERMIT TO CONSTRUCT

- [X] New
[] Renewal
[] Modified

Permit No. 86-443RR

GLENROCK COAL COMPANY SEDIMENT POND SP-1
(Name of Facility)

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

Glenrock Coal Company

1026 - 55 Ranch Road

Glenrock, Wyoming 82637

to construct, install, or modify a sediment pond facility according to the procedures and conditions of the application No. 86-443RR. The facility is located in Section 3, T.35N., R.75W., in the County of Converse, 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.

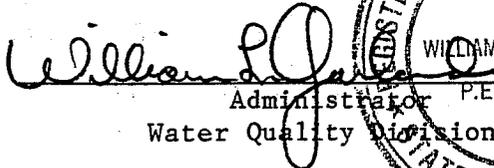
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

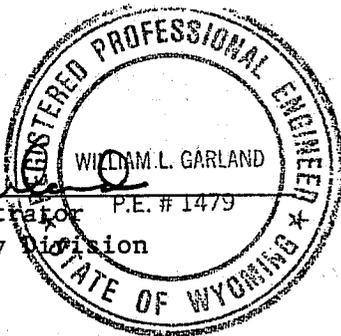
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 601, Sheridan, Wyoming 82801; telephone, 672-6457.

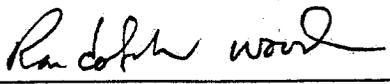
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:


Administ~~ra~~tor P.E. # 1479
Water Quality Division




Director
Department of Environmental Quality

2-9-87
Date of Issuance

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

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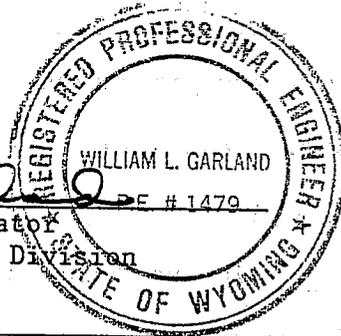
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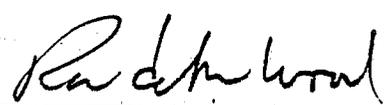
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
12-31-86
Date of Issuance





Director
Dept. of Environmental Quality

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

Norad

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Tillet Springs Sewage Disposal System

ENGINEER: William Armstrong
Wyoming Game & Fish Department
5400 Bishop Boulevard
Cheyenne, WY 82002

OWNER: Wyoming Game & Fish Department
5400 Bishop Boulevard
Cheyenne, WY 82002

WATER QUALITY DIVISION REFERENCE NUMBER: 86-444

REVIEWING ENGINEER: Jeff Hermansky

Jeff

DATE OF REVIEW: December 2, 1986

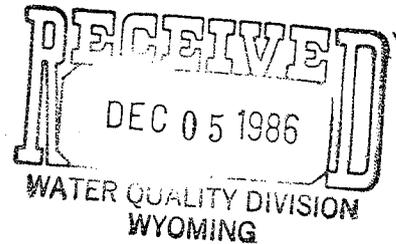
ACTION: Not authorized.

COMMENTS:

This office has completed a review of the proposed Tillet Springs Rearing Station sewage disposal system. The following questions and comments need to be addressed before a Permit to Construct can be issued:

1. Please specify or note that the pipe in and out of the septic tank must be schedule 40 PVC for at least 5 feet on either side of the tank.
2. The profile of the sewer/leach field shows no slope on the sewer line from the manhole to the septic tank. The slope should be at least $\frac{1}{4}$ inch per foot.
3. Are there any wells in the area of the disposal system?
4. The leach field trenches appear to be too close together. The regulations require the edges of the trenches be at least 1.25 times the maximum vertical depth apart.
5. Where is the leach field replacement area to be located?

In addition to the above items that need to be addressed to meet the regulations, I would like to recommend you use a tee rather than a distribution box at the head of the leach field. This is for cost and ease of installation only. I would also recommend the leach field pipes be installed flat rather than sloping at 3"/100'.



Review of Plans & Specs.

Ref. No. 86-444

Page Two

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.

JH/jw

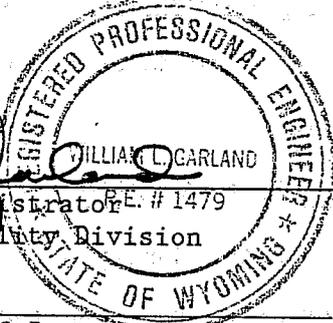
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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 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
02-09-87
Date of Issuance

Ralph Howard
Director
Dept. of Environmental Quality

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

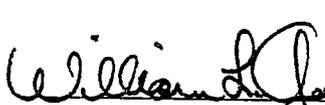
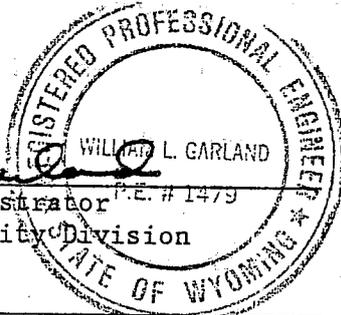
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AUTHORIZED BY:


Administrator P.E. # 1479
Water Quality Division

02-09-87
Date of Issuance


Director
Dept. of Environmental Quality

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

252

PERMIT TO CONSTRUCT

New

Permit No. 86-447R

Renewal

Modified

Sulphur Borrow C Sedimentation Reservoir
(Name of Facility)

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

City of Evanston

P.O. Box 130

Evanston, WY 82930

to construct, install, or modify a sedimentation reservoir to collect surface
run-off from areas affected by construction of the Sulphur Creek Reservoir Enlargement
facility according to the procedures and conditions of the
application No. 86-447R. The facility is located in _____

SE $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 27, T14N, R119W

_____ in the County of Uinta,

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-

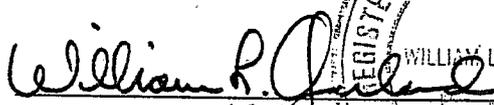
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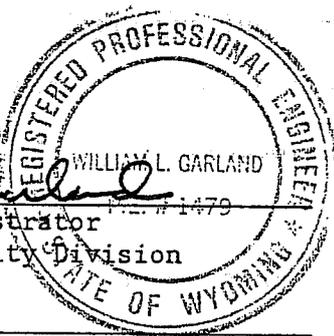
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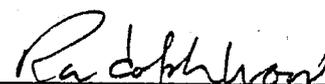
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
02-09-87
Date of Issuance




DIRECTOR
Dept. of Environmental Quality

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

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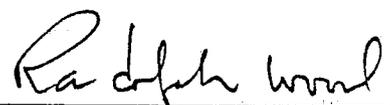
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AUTHORIZED BY:


Administrator
Water Quality Division
02-09-87
Date of Issuance




Director
Dept. of Environmental Quality

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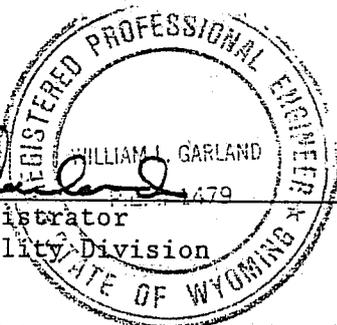
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AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division
02-09-87
Date of Issuance

Ra Lyle Wood
Director
Dept. of Environmental Quality

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

27

PERMIT TO CONSTRUCT

New

Permit No. 86-450R

Renewal

Modified

Sulphur Sedimentation No. 3 Reservoir
(Name of Facility)

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

City of Evanston

P.O. Box 130

Evanston, WY 82930

to construct, install, or modify a sedimentation reservoir to collect surface run-off
from areas affected by construction of the Sulphur Creek Reservoir Enlargement

facility according to the procedures and conditions of the
application No. 86-450R. The facility is located in

NE $\frac{1}{4}$, NE $\frac{1}{4}$, Sec. 33, T14N, R119W

in the County of Uinta,

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.

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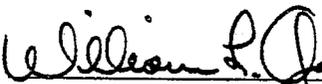
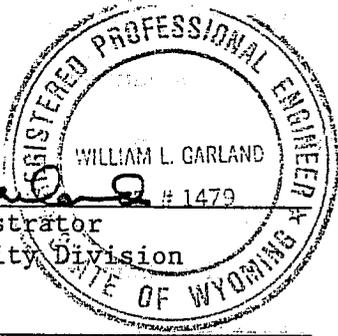
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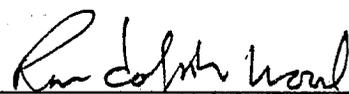
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AUTHORIZED BY:


Administrator
Water Quality Division

02-09-87
Date of Issuance


Director
Dept. of Environmental Quality

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