

PERMIT TO CONSTRUCT

New

Permit No. 88-251R

Renewal

Modified

General Chemical Interceptor System
(Name of Facility)

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

General Chemical Corporation

P. O. Box 551

Green River, WY 82935

to construct, install, or modify a groundwater interceptor well system in

the Northeast Wash

facility according to the procedures and conditions of the

application No. 88-251R. The facility is located in NW 1/4, Sec. 29;

T19N, R109W

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.

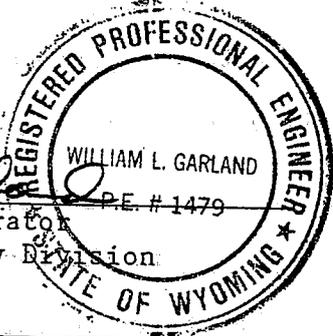
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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
 8-15-88
 Date of Issuance



Ralph Wood
 Director
 Dept. of Environmental Quality

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



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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November 14, 1988

Mr. Marvin Freeman
Sequoyah Fuels Corporation
P. O. Box 25861
Oklahoma City, Oklahoma 73125

RE: Smith Ranch Evaporation Ponds
Permit 88-252
Converse County, Wyoming

Dear Mr. Freeman:

Your submittal of additional information is sufficient to allow Water Quality Division to consider the completeness issues that we raised on LQD TFN 2-6/99 to be resolved.

Enclosed please find the approved permit to construct for the first six cells of this system.

The pond liners should be specified exactly. The type of liner to be used may be varied from one pond to the next, if desired, but the exact liner to be used in the first cells shall be specified and approved by WQD in advance of construction. WQD has experienced leaks in synthetic liners with thicknesses up to 60 mils. For this reason 30 mils shall be the thinnest liner used.

The sand blanket in the leak detection system should be designed to be a minimum of 6 inches thick. The sand in this leak detection system shall consist of material with no more than 15% passing the 200 mesh.

Mr. Marvin Freeman
November 14, 1988
Page 2

This permit will cover up to 70 acres of evaporation cells in six cells. The 70 acres of surface area will evaporate approximately 130 gallons per minute at a rate of 36 inches per year without enhanced evaporation. This should be sufficient for the in-situ operations planned.

Sincerely,



Robert F. Lucht, P.E.
Groundwater Quality Control Supervisor
Water Quality Division

RFL/jn

xc: Jake Strohman, DEQ/WQD
John Wagner, DEQ/WQD
Susan Fields, DEQ/WQD, Sheridan
Steve Ingles, DEQ/LQD

PERMIT TO CONSTRUCT

PERMIT NO. 88-252
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

SMITH RANCH BRINE EVAPORATION PONDS

This permit hereby authorizes the applicant:

Sequoyah Fuels Corporation
P O Box 25861
Oklahoma City, Oklahoma 73125

to construct, install or modify a series of lined solar evaporation ponds for brine disposal according to the procedures and conditions of the application number 88-252. The facility is located in Section 23, T36N, R74W, SE in the county of Converse, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

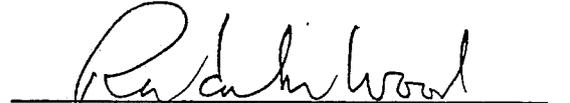
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

11-21-88

Date of Issuance

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

Special Conditions for Permit to Construct 88-252

1. Prior to construction of any ponds under this permit, a site specific geotechnical study shall be done. This study shall address the geological and hydrogeological characteristics of the formations immediately under the ponds and within 20 feet of the final bottom grade of the ponds. Water Quality Division shall receive a copy of this report prior to installation.
2. Leak detection piping shall be schedule 40 PVC or better, in the sizes shown on the plans. Pond inlets are not shown on the plans, but will include hoses pipes, or additional liner thickness to prelude damage to the liner. Pond inlets can be through an enhanced evaporation system such as a trickle system. If a trickle system is installed, no extra protection will be required for the liner that is wetted by the system.
3. The top 24" of subgrade material on all ponds constructed under this permit shall be compacted so that its total permeability is at least 100 times less than the sand blanket of the leak detection system. Compaction shall be at least 95% of Proctor Standard density for the 24" immediately under the leak detection system.
4. Sand for the leak detection system shall contain no more than 15% passing 200 mesh and shall contain nothing larger than $\frac{1}{2}$ inch. The sand blanket for the leak detection system shall be at least 6" thick.
5. Should a leak be detected in one of the pond liners, that pond shall be pumped out to the extent necessary to fully expose the defect and repair the leak. This requires that there always exist enough spare capacity to allow any one cell to be emptied completely. Any water in the leak detection system shall, to the extent possible, be pumped out to another cell.

Conditions to Permit 88-252 (continued)

6. An enhanced evaporation may be installed in one or more of the ponds installed under this permit. While this is acceptable, a complete written description of the system to be installed plus a complete set of construction drawings shall be submitted to the Water Quality Division prior to construction of such a system. Water Quality Division will review this material and determine if it is acceptable as submitted or if additional work needs to be done, or if the enhanced evaporation system is unacceptable as submitted.
7. Should a leak be detected a sample should be taken as soon as practical of the water in the leak detection system. The first samples shall be taken when there is 6 inches of water in the leak detection system.
8. The leak detection piping shall be laid to true line and grade so that as little water as possible will be unrecoverable in the leak detection piping.
9. Should any leak be detected a report shall be made within 24 hours of discovery to the Water Quality Division district office in Sheridan, Wyoming followed by a written confirmation within seven days.
10. Prior to installation, the technical specifications for the synthetic liner shall be submitted to Water Quality Division for review and approval. Synthetic liners shall be 30 mil thickness or better.
11. Water Quality Division reserves the right to require additional technical specifications prior to the installation of these ponds. Sequoyah fuels shall submit a copy of the construction specifications to Water Quality Division at least 30 days prior to construction for comment and approval.
12. Up to 6 cells maybe constructed under this permit covering up to 70 acres total area.
13. If any of these cells should develop a history of leaks, Water Quality Division reserves the right to require monitor wells and a full subsurface contamination study to be done.



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

July 20, 1988

Mrs. Karen K. Maxfield
1059 Frontera
Laramie, WY 82070

RE: Permit to Construct Application Number 88-253

Dear Mrs. Maxfield:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (# 88-253) concerning the septic system at S35, T16N, R78W, W $\frac{1}{2}$, Albany County. The Water Quality Division has determined that the septic system meets the minimum state standards for isolation distances to wells, property lines, seasonal high groundwater, etc. Since the septic tank and drainfield size cannot be determined without digging up the entire system, the department cannot evaluate if the system is sized correctly. However, based on 8 years of actual operating experience, the system appears to be adequately sized for current conditions of 3 people on year round usage. The affect of any increased wastewater quantity or quality or improper maintenance cannot be determined.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. This letter 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 the 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 a permit to construct cannot be issued for as-built wastewater treatment facilities, this letter will serve as your final approval document.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/DM/nc

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 88-254

X New
Renewal
Modified

WEST SMALL SEPTIC SYSTEM

This permit hereby authorizes the applicant:

Ruth C. West
524 Richeau Road
Wheatland, Wyoming 82201

to construct, install or modify a small septic system according to the procedures and conditions of the application number 88-254. The facility is located in Section 25, T22N, R68, 1/4NWNW in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

William L. Garland

Administrator
Water Quality Division



Richard Wood

Director
Department of Environmental Quality

7-29-88

Date of Issuance

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

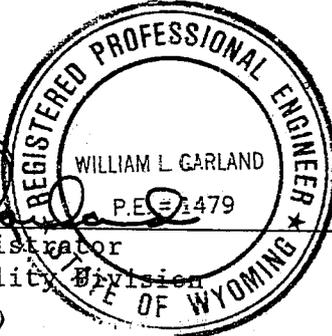
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 L. Garland
Administrator
Water Quality Division
7-21-88
Date of Issuance

Rudolph Wood
Director
Dept. of Environmental Quality

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

file ✓

LAND APPLICATION PERMIT

Permit No. 88-256R
Conditions on Permit

Waste, Inc., Land Application
(Name of Facility)

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

Waste, Inc.

P. O. Box 133

Evanston, Wyoming 82930

to land apply approximately 12,000,000 gallons of drilling fluid reserve pit
wastewater at a rate of 3.6 gallons per square foot.

The application site is located in Sec 7, T17N, R120W

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
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.

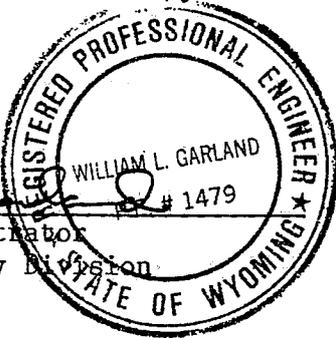
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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 L. Garland

 Administrator
 Water Quality Division



Rudolph Wood

 Director
 Dept. of Environmental Quality

8-4-88

 Date of Issuance

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

PERMIT CONDITIONS

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

4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, 210 Lincoln Street, Lander, Wyoming 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.
5. A minimum of seven (7) soil samples (one per every ten acres) shall be collected from the surface to 12 inches in depth and analyzed for the following parameters:
 - Sodium Absorption Ratio (SAR)
 - Sulfates
 - Chlorides
 - Boron

The samples shall be collected and analyzed immediately before and within one month after the land application of wastewater. The analytical results shall be forwarded to the DEQ/Water Quality Division, 210 Lincoln Street, Lander, Wyoming 82520, as soon as they are completed.



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

July 1, 1988

Mr. Glennis Harrison
Chairman, Trustees
First United Methodist Church
1100 Harrison Drive
Pine Bluffs, WY 82082

RE: Closed loop heat pump, permit UIC 88-257 Class V, Laramie County,
Wyoming

Dear Mr. Harrison:

Enclosed please find the approved permit for your ground based heat pump system. Because of the low probability of contamination from this type of system, we are not requiring monitoring of the groundwater. Please pay special attention to section G of this permit which requires you to notify this office should this system require the addition of fluid.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/RL/nc

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

(X) New

Permit Number:

() Modified

88-257
UIC CLASS V

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

First United Methodist Church
600 Main Street
Pine Bluffs, Wyoming 82082
(307) 245-3654

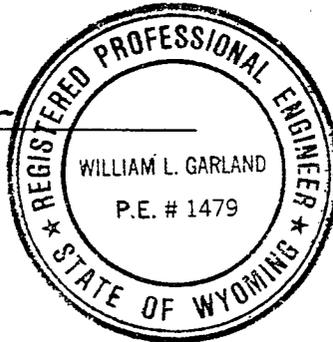
is authorized to operate

A closed loop ground based heat pump at the Church Parsonage in Pine Bluffs, Wyoming

according to procedures and conditions of the application 88-257 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

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



July 1, 1988
Date

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

July 5, 1988
Date

A. Discharge (Injection) Zone and Area of Review

The area of review was limited to T14N, R60W, Section 15, 606 Market Street, Pine Bluffs, Wyoming. The only injection will be waste heat through a heat exchanger. No materials are to be injected through this system.

B. Groundwater Classification

The shallow alluvial aquifer penetrated by these wells is class I.

C. Authorized Operations

The permittee is authorized to operate a closed loop, ground based heat pump system. The circulating fluid in this system shall be non-toxic propylene glycol in an 18% solution in water. Use of any other fluid is not authorized without notification in advance to the Water Quality Division. Use of any toxic agent such as ethylene glycol, or chromium based corrosion inhibitors, will not be authorized.

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:

This system shall be continuously monitored for any leakage. First United Methodist Church has indicated in the application that each loop will be equipped with automatic shutoff valves that will limit any accidental loss of fluid to a maximum of 65 gallons of 18% Propylene Glycol solution.

G. Requirements for Monitoring the Discharge

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

Because of the several layers of control built into this system, No monitoring program is considered necessary. The operator must monitor the operation of the system to insure that no leakage occurs. Should any leakage occur, or any fluid be added, Water Quality Division shall be notified within 24 hours by telephone and this shall be followed by a detailed written report within seven

days. To insure that this requirement is met, First United Methodist Church shall keep a copy of this permit on file in the pastor's files as well as in the building maintenance files. In addition, a Notice shall be posted at the location of the heat pump informing the maintenance personnel of this requirement. This notice shall begin with the phrase "IN CASE OF A LEAK" in letters at least one inch high. The exact wording of this notice shall be:

"IN CASE OF A LEAK you are required to report this fact immediately upon discovery by telephone to (307)777-7095. This report shall be followed by a written report within seven days addressed to:

Wyoming DEQ-Water Quality Division
UIC Program Supervisor
Herschler Building
122 West 25th Street
Cheyenne, WY 82002"

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:

Mechanical Integrity will be monitored continuously by the system as installed. Any loss of Mechanical Integrity in any one loop will result in that loop automatically being considered as a leak in the system or loss of Mechanical Integrity.

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

L. Abandonment

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

At the time of abandonment, all fluid shall be flushed from the system and disposed of in an approved manner. All casings and loop piping shall be cutoff 24 inches below grade and the well sealed with a solvent welded PVC cap and a concrete cap 8" thick.

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.

Pacific Power has assured the resources to properly plug this system.

O. Special Measures the Director Finds Necessary:

Should Pacific Power ever sell this building and the system covered by this permit, the new owner shall be bound by all provisions of this permit.

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.

PERMIT TO CONSTRUCT

PERMIT NO. 88-258
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

WYOMING REFINING COMPANY

This permit hereby authorizes the applicant:

Wyoming Refining Company
P O Box 820
Newcastle, Wyoming 82701

to construct, install or modify a network of ten piezometers according to the procedures and conditions of the application number 88-258. The facility is located in NW SW S29, T45N, R61W in the county of Weston, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Rudolph Wool
Director
Department of Environmental Quality

7-5-88
Date of Issuance

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

Conditions for Permit to Construct 88-258

1. The piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-258.
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those piezometers prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a piezometer has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well or piezometer caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the piezometers shall be reported immediately to the division. The piezometers shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete an extent of contamination study and any further remedial actions which may be required.
6. In addition to the piezometer construction information submitted with the permit application, the following items relating to the construction must be addressed when the piezometers are installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;

Conditions to Permit 88-258 (continued)

- b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
 - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - f. The factory slotted casing described in the application is required.
 - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the piezometers.
 - h. The piezometers shall be developed by the use of a pump or bailer so that any monitoring provides representative measurements or results;
 - i. A seal of bentonite or bentonite grout is required as indicated in the application. Protective concrete surface sealant shall be sloped to promote drainage away from the piezometer.
7. DEQ/WQD personnel shall be given at least two weeks or maximum possible notice prior to the installation of the piezometer system so that DEQ/WQD personnel may be on-site if deemed necessary.
 8. Well logs describing lithology and static water levels shall be recorded for the full extent of each piezometer. Materials other than clays shall be described by methods that provide an objective measure of grain size, such as the Wentworth scale, phi-size, USCS, or similar established method. Any staining, odor, or occurrence of petroleum product shall be recorded in the log.
 9. Within 60 days of the completion of the installation program, a report documenting and detailing the final design, construction, and on-site implementation of the piezometer system shall be submitted to the WQD. This report shall include, at a minimum:
 - a. A topographic site map showing physical features and final well locations and elevations;
 - b. Maps delineating the potentiometric surface and any free petroleum products encountered;
 - c. As-built construction details and well logs of all piezometers;
 - d. The raw data and results of any tests conducted to determine permeability (hydraulic conductivity), storativity, or other aquifer characteristics;
 10. The following monitoring program is required for the piezometer system:

Conditions to Permit 88-258 (continued)

- a. The physical parameters to be monitored shall include the depth and elevation of static water levels, depth, thickness and elevation of any immiscible product occurrence and evidence of sediment intrusion (silting). The presence of sheen, film, iridescence, odor, or other indicator of petroleum product shall also be recorded and reported;
 - b. Monitoring shall be daily for the first two weeks, semi-weekly for the following month, monthly afterwards for a period of one year, and quarterly thereafter;
 - c. The physical parameters to be monitored shall be recorded on a monthly format and submitted to the WQD in Cheyenne within 30 days of the end of each month. Quarterly monitoring shall be submitted quarterly within thirty days of the end of each quarter; by the end of April, July, October, and January of each year. The first report shall be due within 30 days of completion of the last piezometer.
11. The results of any chemical analysis of soil or water samples obtained from any of these piezometers shall be submitted to the WQD within 30 days of the receipt of the results from the laboratory. In the event that samples are obtained, proper well evacuation, sample collection, preservation, transportation, and chemical analytical methods shall conform to protocol and procedures acceptable to the WQD.
 12. Other facilities on the site associated with the piezometer system will require a permit to construct from the WQD. Any subsurface information from the piezometer installation program used in designing or locating these other facilities must be submitted to the WQD with the permit application.

cc: Jake Strohmman, DEQ/WQD
Susan Fields, DEQ/WQD, Sheridan

Archive

CHAPTER III

FOR USE BY DEQ/WQD ONLY

APPLICATION FOR PERMIT TO CONSTRUCT,
INSTALL, OR MODIFY PUBLIC WATER SUPPLIES,
WASTEWATER FACILITIES, DISPOSAL SYSTEMS, OR
GROUNDWATER MONITORING WELLS IN WYOMING

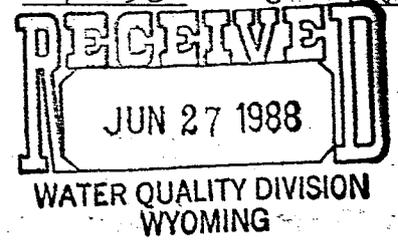
APPLICATION NO. 88-258
DATE RECEIVED

Application must contain three copies of the application form, plans, specifications, and pertinent design information.

- 1. Name of facility Wyoming Refining Company
- 2. Owner, company, or corporation name Wyoming Refining Company
- 3. Location of facility: County Weston

Section 29 1/4 Sections NW of SW Township 45 N Range 61 W

- 4. Type of application: New permit
- Revised permit*
- As built approval
- Renewal of permit*



*Previous DEQ/WQD construction permit no(s). _____

5. Facility description: New facility Modified facility

Public water supply

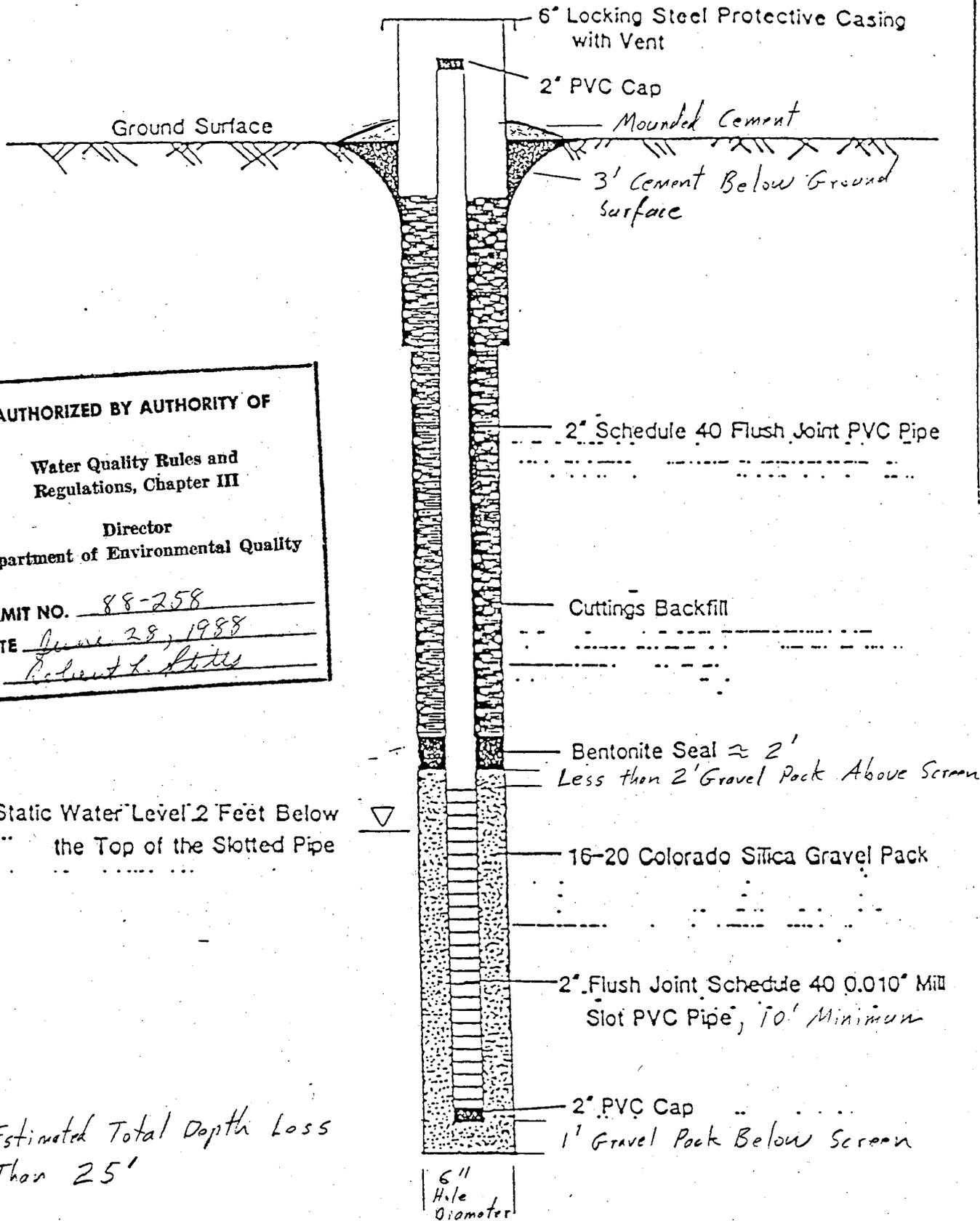
- | | |
|--|--|
| <input type="checkbox"/> Publicly-owned | Type of facility |
| <input type="checkbox"/> Privately-owned | <input type="checkbox"/> Source development |
| | <input type="checkbox"/> Groundwater |
| | <input type="checkbox"/> Surfacewater |
| | <input type="checkbox"/> Treatment plant |
| | <input type="checkbox"/> Distribution system |

Wastewater facility

- | | |
|--|--|
| <input type="checkbox"/> Publicly-owned | Type of facility |
| <input type="checkbox"/> Commercial | <input type="checkbox"/> Septic system |
| <input type="checkbox"/> Industrial (including mines) | <input type="checkbox"/> Domestic sewage pond |
| <input type="checkbox"/> Coal mine | <input type="checkbox"/> Sedimentation facility |
| <input type="checkbox"/> Small (single unit, domestic waste, less than 2000 gpd) | <input type="checkbox"/> Evaporative/containment pond |
| | <input type="checkbox"/> Mechanical treatment plant/system |
| | <input type="checkbox"/> Collection system |
| | <input type="checkbox"/> Land application facility |
| | <input type="checkbox"/> Other _____ |

Groundwater pollution control systems

- Groundwater pollution control or containment system
- Groundwater restoration system
- Monitoring well(s) (P.E. not required)
- Test hole(s) for subsurface contamination assessment (P.E. not required)
- Injection or recovery well



AUTHORIZED BY AUTHORITY OF

Water Quality Rules and Regulations, Chapter III

Director

Department of Environmental Quality

PERMIT NO. 88-258

DATE June 28, 1988

BY Robert L. Stites

Estimated Total Depth Loss Than 25'

ENECOTECH
Denver, Colorado

WYOMING REFINING CO.

PROJECT DOJ-WRC

TYPICAL PIEZOMETER

FILE NO. 162-002 DATE October 1987 FIGURE NO. 2

2.F.

PERMIT TO CONSTRUCT

PERMIT NO. 88-259
SEE SPECIAL CONDITION

X New
Renewal
Modified

Encampment Project No. S-88-1

This permit hereby authorizes the applicant:

Town of Grand Encampment
P O Box 456
Encampment

to construct, install or modify municipal sewer collection according to the procedures and conditions of the application number 88-259. The facility is located in Section 1, T14N, R84W in the county of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

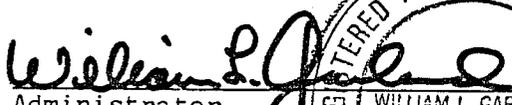
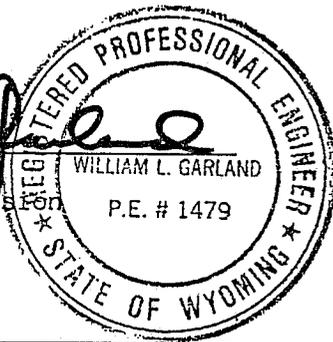
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

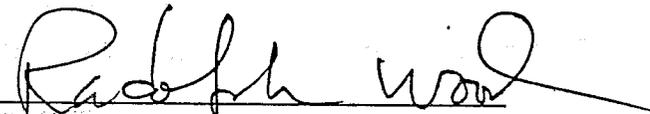
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


Administrator
Water Quality Division



Director
Department of Environmental Quality

7-15-88

Date of Issuance

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

SPECIAL CONDITION FOR PERMIT 88-259

1. When homes are connected to the new sewer collection systems, their septic systems shall be disconnected and permanently modified so as to prevent any future use. Septic tanks shall be removed or filled in.

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

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 88-260
(Ref. 83-16R)
SEE SPECIAL CONDITIONS

OSAGE HOT OIL CO. DISPOSAL PIT
MONITOR WELLS
(Name of Facility)

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

Osage Hot Oil Co., Inc.

P. O. Box 398

Newcastle, Wyoming 82701

to construct, install, or modify groundwater monitoring wells according to the procedures and conditions of the application No. 88-260 (Ref. 83-16R). The facility is located in Section 5, T.42N., R.67W., in the County of Weston, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

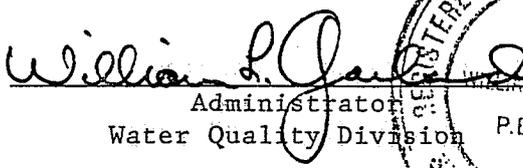
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

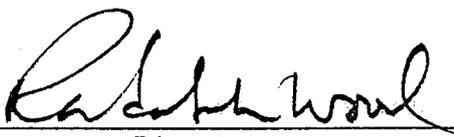
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

7-1-88
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT 88-260

1. Additional wells meeting the requirements of the application may be installed under this permit if prior approval is received from the Water Quality Division.
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depth of seal below ground surface as detailed in Chapter XI, Part G. However, a sufficient seal should be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within fifteen (15) days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
4. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:

Conditions to Permit 88-260 (continued)

- a. After the bentonite has been placed in the annular space, it should be hydrated to ensure a proper seal;
 - b. The borehole diameter must be at least four inches larger in diameter than the casing diameter;
 - c. The perforated intervals must extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
 - d. Only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - e. To minimize the entrance of fine-grained material into the well, the filter pack should be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - f. A top and bottom cap should be installed to prevent sediment and surface water from entering the well;
 - g. A protective casing and locking cap is strongly recommended;
 - h. The monitoring well should be developed by the use of a pump or bailer so that representative groundwater samples can be collected.
5. The wells are to be installed to an approximate depth of 35 feet. If water is encountered at a shallower depth, the wells may be completed into this uppermost aquifer. Proper well evacuation, sample collection, preservation, transportation and analytical procedures shall be followed to retrieve samples from each well. Initial laboratory analysis of samples from each well and the pond itself shall include the following:

Static Water Level

Aluminum (Al)	Manganese (Mn)
Ammonia (NH ₃ -N)	Mercury (Hg)
Arsenic (As)	Nickel (Ni)
Barium (Ba)	Nitrate (NO ₃ -N)
Beryllium (Be)	Nitrate (NO ₂ -N) (NO ₃ +NO ₂)-N
Boron (B)	Oil & Grease
Cadmium (Cd)	Phenol
Chloride (Cl)	Selenium (Se)
Chromium (Cr)	Silver (Ag)
Cobalt (Co)	Sulfate (SO ₄)
Copper (Cu)	Total Dissolved Solids (TDS)
Cyanide (CN)	Uranium (U)
Flouride (F)	Vanadium (V)
Hydrogen Sulfide (H ₂ S)	Zinc (Zn)
Iron (Fe)	pH
Lead (Pb)	Sodium Absorption Ratio (SAR)
Lithium (Li)	

Conditions to Permit 88-260 (continued)

Long term monitoring shall be conducted on a quarterly basis. Groundwater samples shall be collected and analyzed for TDS, chlorides, sulfates, oil and grease and static water level. The pond contents shall be sampled annually and analyzed for the same constituents as the groundwater. All sampling results are to be submitted to the Water Quality District Office, 2161 Coffeen Avenue, Suite 501, Sheridan, Wyoming 82801, within thirty (30) days of the end of the quarter.

6. Within 120 days of the issuance of this permit, a report on the well installation shall be submitted to the Water Quality Division, Sheridan District Office. This report shall contain at a minimum:
 - a. A site map showing physical features, well locations and elevations;
 - b. Final construction details and a log of all monitoring wells;
 - c. Water level measurements, if encountered;
 - d. Sample collection procedures;
 - e. Sampling analytical results.

xc: Jake Strohman, DEQ/WQD, Cheyenne

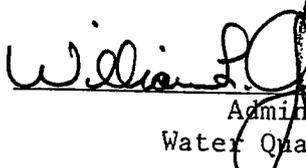
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 J. GARLAND
No. 1479
Administrator
Water Quality Division
STATE OF WYOMING
8-4-88

Date of Issuance



Director
Dept. of Environmental Quality

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



THE STATE

OF WYOMING



Department of Environmental Quality

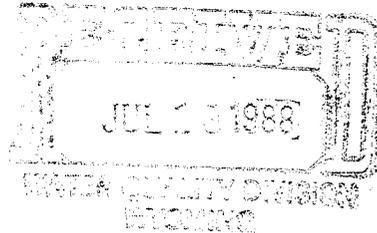
Air Quality Division
(307) 332-3144

Land Quality Division
(307) 332-3047

Solid Waste Management Program
(307) 332-3144

Water Quality Division
(307) 332-3144

July 12, 1988



Apex Surveying, Inc.
Attn: Terry Zenk, P. E.
P. O. Box 1751
Riverton, Wyoming 82501

RE: Wyoming Honor Farm Water System Improvements, DEQ No. ~~88-262~~

Dear Terry:

I have taken a look at your application for a permit to make improvements to the Wyoming Honor Farm water system. Since the Honor Farm complex has less than 20 water service connections on the system, it does not meet the Water Quality Division's definition of a public water supply. Therefore, no permit is needed from this office.

I was pleased to see that the Honor Farm had you design their system. Although they may not be a public water supply system as defined by the DEQ, the system is complex and does serve a large number of people.

Please feel free to contact either Steve Gerber or me if we can be of assistance.

Sincerely,

Jeff Hermansky by AH

Jeff Hermansky,
Water Quality Evaluator

JH/ah

Encl: plans

cc: IPS - Cheyenne
Larry Robinson, DEQ/WQD Cheyenne
file (2)

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.

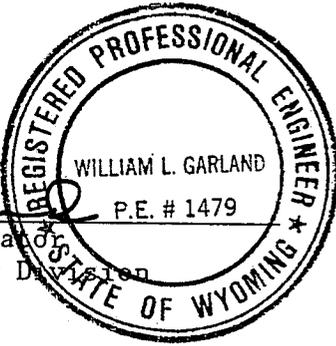
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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
 7-21-88
 Date of Issuance



Ra [Signature]
 Director
 Dept. of Environmental Quality

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

CONDITIONS

1. Two in-place permeability tests must be conducted on the lagoons prior to being placed in operation. Both tests must confirm that seepage is limited to less than 1/4 inch per day. If this seepage rate is exceeded by either test, additional compaction will be required until both tests meet the criteria. The method of determining in-place permeability must be approved by this division prior to testing.



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

September 13, 1988

Phillip & Sheree Fowler
Box 305
Centennial, Wyoming 82055

RE: Permit to Construct Application Number 88-264

Dear Mr. & Mrs. Fowler:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (#88-264) concerning the septic system at S27, T16N, R78W, SE $\frac{1}{4}$, Albany County. The Water Quality Division has determined that the septic system meets the minimum state standards for isolation distances to wells, property lines, seasonal high groundwater, etc. Since the septic tank and drainfield size cannot be determined without digging up the entire system, the department cannot evaluate if the system is sized correctly. However, based on five years of actual operating experience, the system appears to be adequately sized for current conditions of two people on year round usage. The affect of any increased wastewater quantity or quality or improper maintenance cannot be determined.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. This letter 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 the 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 sovrign immunity.

Since a permit to construct cannot be issued for as-built wastewater treatment facilities, this letter will serve as your final approval document.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/DM/jn

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Fowler Small Septic System

ENGINEER:

APPLICANT: Phillip & Sheree Fowler
Box 305
Centennial, WY 82055

WATER QUALITY DIVISION REFERENCE NUMBER: 88-264

REVIEWING ENGINEER: Dave Montague *DM*

DATE OF REVIEW: July 6, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. Provide how long you have lived at this site, whether seasonal or year round, and the number of residents. This information is needed to fill out the as-built permit.
2. Provide the separation distance between the septic tank and the leachfield.
3. Provide the separation distance between the leachfield and what you have identified as the East North Fork Road. I am assuming this is one of your property lines.

/jn



Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

October 27, 1988

Fred Oedekoven
Oedekoven Water and Hot Oil Service
Post Office
Recluse, Wyoming 82725

Dear Fred:

As per your request, Water Quality Land Application Permits 88-096 through 88-101, 88-265 and 87-275 have been extended until January 1, 1989. All other conditions contained in the original permits still apply.

Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Susan Fields".

Susan Fields
NE District Supervisor
Water Quality Division

SF:jj

xc: Tom Clayson, BLM
~~Archives File~~
Sheridan Plan File

V
re

LAND APPLICATION PERMIT

Permit No. 88-265
SEE SPECIAL CONDITIONS

BAILEY DUST CONTROL
(Name of Facility)

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

Fred L. Oedekoven

P. O. Box 481

Recluse, Wyoming 82725

to land apply produced water to Bailey private road for dust control. The application site is located in Sections 16 & 17, T.57N., R.72W., in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of six (6) months 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.

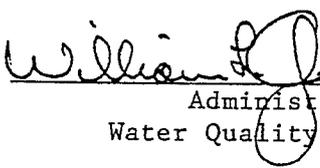
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the 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.

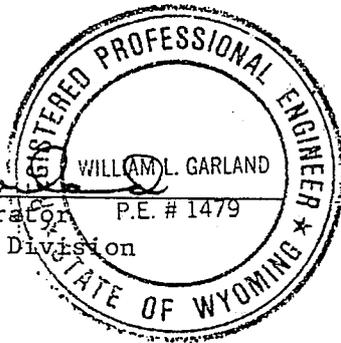
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulations.

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

7-7-88

Date of Issuance

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

ROAD APPLICATION SPECIAL CONDITIONS

1. Produced water shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. Produced water application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
3. This permit shall be in effect for a period of six months from the date of issuance. Any produced water application after that six month period must be reauthorized by the Water Quality Office.
4. The source of water for this permit is the Big Ute 48-18, a Federal lease. The applicant shall comply with any provisions required by the Bureau of Land Management for use of this water for dust control.

xc: BLM - Buffalo Resource Area
189 N. Cedar
Buffalo, Wyoming 82834

PERMIT TO CONSTRUCT

New

Permit No. 88-266R

Renewal

Modified

BILL NORTH REST AREA
WATER AND WASTEWATER FACILITIES

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

Wyoming State Highway Department

P. O. Box 1708

Cheyenne, Wyoming 82002-9019

to construct, install, or modify a wastewater disposal facility according to the procedures and conditions of the application No. 88-266R. The facility is located in Section 26, T.39N., R.71W., in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

William B. Jones
Administrative
Water Quality Division
P.E. # 1475


Ralph Wood
Director
Dept. of Environmental Quality

8-9-88

Date of Issuance

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

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 88-267
SEE CONDITIONS

X New
Renewal
Modified

Deep Anode Ground Bed

This permit hereby authorizes the applicant:

ITRP Natural Gas Ventures, Inc.
410 17th Street, Suite 1400
Denver, CO 80202

to construct, install or modify deep anode ground bed facility according to the procedures and conditions of the application number 88-267. The facility is located in S34, NW $\frac{1}{4}$, T23N, R111W in the county of Sweetwater, 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.

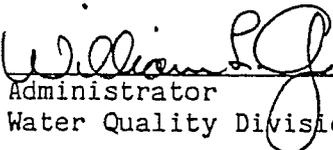
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

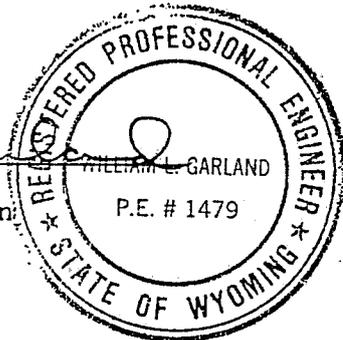
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer,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

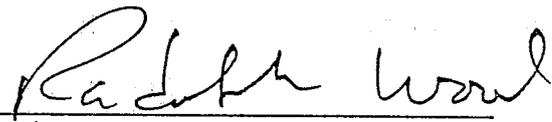
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

7-15-88
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #88-267

1. The cathodic protection deep anode ground bed well shall be installed in accordance with the conditions of this permit and plans and specifications submitted in permit to construct application number 88-267.
2. After the deep anode ground bed well has fulfilled its useful purpose, it shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after the well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.
3. In addition to the anode bed construction information submitted with the permit application, the following items relating to well construction must be addressed when the well is installed:
 - a. Bentonite grout seal installed to a depth just above coke breeze.
 - b. The coke breeze backfill has a total organic content no greater than 0.2 percent.
 - c. All aquifers encountered while drilling shall be isolated with polymer mud to prevent co-mingling of different aquifers or each aquifer shall be isolated, sampled and analyzed for all parameters contained in Table I of Chapter VIII of Wyoming Water Quality Rules and Regulations. If aquifers are of the same class of use as determined by the Department of Environmental Quality, intermingling may be allowed.
4. Within 45 days after the well has been installed, as-built construction plans need to be submitted to the Wyoming Department of Environmental Quality, Water Quality Division, detailing that the groundwater was protected during construction.

cc: H. Norman Eagleton, Eagleton Engineering Co.,
P O Box 37009, Houston, TX 77237

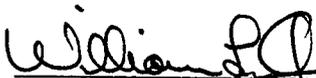
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

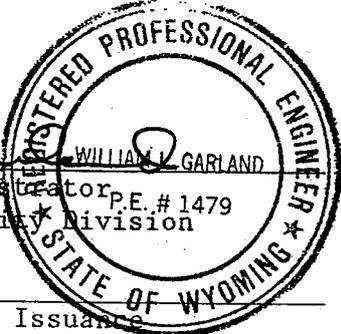
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
P.E. # 1479
8-4-88
Date of Issuance





Director
Dept. of Environmental Quality

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

T

file ✓

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 88-269R

CABALLO MINE NORTHWEST RESERVOIR
 (Name of Facility)

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

The Carter Mining Company

P. O. Box 3007

Gillette, Wyoming 82716

To construct, install, or modify a sedimentation facility according to the procedures and conditions of the application No. 88-269R. The facility is located in Section 11, T.48N., R.71W.. in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

William L. Garland

Administrator
Water Quality Division



Robert Howard

Director
Department of Environmental Quality

8-2-88

Date of Issuance

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



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

August 4, 1988

Mary Fernandes
Rt 1
Lingle, WY 82223

RE: Permit to Construct Application Number 88-270

Dear Ms. Fernandes:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (#88-270) for a permit to construct a septic system for your residence at S36, T25N, R62W. 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 of the facility described herein. This letter 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 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 septic system as installed meets minimum state specifications and has been approved by the Wyoming Department of Environmental Quality, Water Quality Division.

In the future if you are to build a wastewater system, you must apply for a permit to construct prior to construction to avoid enforcement action.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/TSN/mad

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Fernandes Residence

ENGINEER:

APPLICANT: Mary Fernandes
Route 1
Lingle, WY 82223

WATER QUALITY DIVISION REFERENCE NUMBER: 88-270

REVIEWING ENGINEER: Thomas S. Norman *TSN*

DATE OF REVIEW: July 12, 1988

ACTION: AS-BUILTS NOT APPROVED.

COMMENTS:

1. The plan sheet (attached) was not completed.
2. The data for determining the percolation rate was not submitted.
3. The septic tank does not meet the minimum length to width ratio of 2:1.
4. Was this a failed system? Is this already constructed? How come it was constructed without a permit?

/jn



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

November 21, 1988

David Engels, Utility Director
Board of Public Utilities
200 North David
Casper, Wyoming 82601

Re: Bar Nunn - Wardwell Interceptor Sewer; Federal Sewage Works Grant
C560230-06; DEQ/WQD Ref. No. 88-271; Approval of Plans and
Specifications

Dear Mr. Engels:

The plans and specifications for the construction of wastewater treatment facility for the referenced project have been reviewed by the State of Wyoming Department of Environmental Quality. This office hereby approves the plans and specifications and is enclosing a permit to construct. Please be advised that all the conditions in your grant agreement apply toward this project.

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

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

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/WK/jt
Enclosures

cc: EPA Region VIII
Barry Venn, CEPI, Inc.
Loren Leichtnam, DEQ/WQD, Sheridan
Tom Norman, DEQ/WQD
Grant File

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

November 21, 1988

Mr. David Engels, Utility Director
Board of Public Utilities
200 North David
Casper, Wyoming 82601

RE: Bar Nunn - Wardwell Interceptor Sewer; Federal Sewage Works Grant
C560230-06; DEQ/WQD Reference No. 88-271;

Dear Dave:

Enclosed you will find the approval of plans and specifications letter and the Permit to Construct for the Bar Nunn - Wardwell Interceptor Sewer Project. Although the plans and specs are approved, there are a few items that need clarification/comments. My initial review comments of September 12, 1988 were responded to in Barry Venn's letter dated November 7, 1988. My comments are as follows:

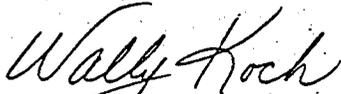
1. The third page of my letter provided comments on plan sheets 28 through 34. Barry's response letter does not address any of my comments on sheets 28 - 34. It looks as if Barry completely overlooked the third page of my letter. Although most of the comments on the third page are minor, there are some that might warrant a revision in the plans.
2. Page AB-2 of the specs in paragraph four refers to MBE and WBE goals as 7.5% and 6.9% respectfully of the total dollar value of the job. This statement is not correct. The 7.5% and 6.9% figures are goals for minority and female participation which are expressed as percentage of the contractor's work force. They are not intended to be expressed as percentages of the total dollar value of the job.

In the initially submitted specs page AB-2 expressed the goals as 2 to 3 percent for MBE and 2 percent for WBE. Both figures represent percent of total dollar value of the job. These goals for MBE/WBE refer to the policy of awarding subcontracts to MBE/WBE companies to perform portions of the project.

On page AB-2 the 7.5% and 6.9% figures need to be changed to 3-4% and 2% which is similar to that shown in the initially submitted specs.

3. Page IB-3, paragraph 8: Liquidated damages are listed as \$500/day for substantial completion and \$300/day for final completion. Supplement Conditions SC-19 on page SC-11 lists the liquidated damages as \$500/day for substantial completion and \$200/day for final completion.
4. Page SC-6 paragraph SC-11.4.5.3: Barry made no response to my original comment and I believe the reason is that my comment was vague. It has been my experience that the hourly, daily, and weekly rates as listed in the "Blue Book" are generally too expensive. A policy I have seen used is to take the monthly rate and divide by 172 hours to arrive at an hourly rate. This calculated "hourly rate" is then used to establish all equipment prices. Is it the intention of paragraph SC-11.4.5.3 to use the hourly and daily rates as listed in the "Blue Book" or will there be some sort of calculated "hourly rate"?
5. Restoration of existing asphalt and gravel roads are now addressed in Section 17001. I find nothing which addresses concrete apron restoration (Bid Item 39).
6. On page BS-1 Bid Items 1, 2, and 3 list the amount of 18" sewer main. The quantity of Bid Item 3 has increased from 145 feet to 1,000 feet. I would expect the amount of Bid Item 2 to decrease by the appropriate amount that Bid Item 3 has increased, but this is not the case.
7. Site Title Opinion: Please be aware that before our office will authorize the award of a construction contract we will require that the City's attorney submit a Site Title Opinion stating that all necessary easements, right-of-ways and property needed to construct, own, operate and maintain the system have been obtained.

Sincerely,


Wally Koch, P.E.
Engineering Evaluator
Water Quality Division

WK/jt

cc: Barry Venn, CEPI
Loren Leichtnam, DEQ/WQD, Sheridan
Grant File

PERMIT TO CONSTRUCT

PERMIT NO. 88-271
EPA C560230-06

X New
Renewal
Modified

Bar Nunn - Wardwell Interceptor Sewer

This permit hereby authorizes the applicant:

City of Casper
Board of Public Utilities
200 North David
Casper, WY 82601

to construct, install or modify Bar Nunn - Wardwell interceptor sewer according to the procedures and conditions of the application number 88-271. The facility is located in E $\frac{1}{2}$ Section 6, T33N, R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

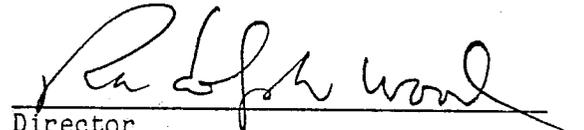
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

11-29-88

Date of Issuance

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

cc: Barry Venn, CEPI
Tom Norman, DEQ
Loren Leichtnam, DEQ, Sheridan
Grant File

file ✓

PERMIT TO CONSTRUCT

PERMIT NO. 88-273
See Conditions

New
X Renewal
Modified

Tenneco Minerals Company Groundwater Monitoring Wells

This permit hereby authorizes the applicant:

Tenneco Minerals Company
P. O. Box 1167
Green River, WY 82935

to construct, install or modify monitoring wells according to the procedures and conditions of the application number 88-273. The facility is located in S2, SE T17N, R110W, S2, NE T17N, R110W in the county of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

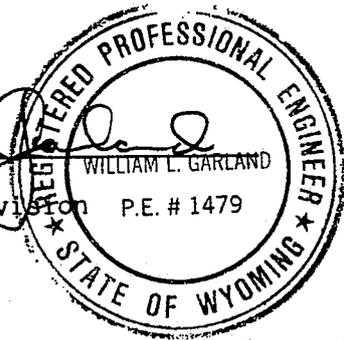
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer,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

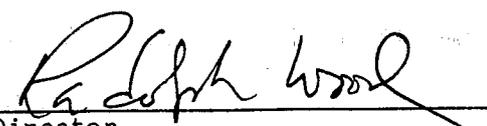
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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 P.E. # 1479




Director
Department of Environmental Quality

8-4-88
Date of Issuance

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

Conditions to Permit to Construct 88-273

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-273. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.
6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be

Conditions to Permit 88-273 (continued)

addressed when the wells are installed:

- a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
 - c. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - d. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - e. Factory slotted casing is recommended for the perforated interval.
 - f. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. A protective casing and locking cap is strongly recommended;
 - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - i. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
 - j. A one foot sand layer shall be placed in the annular space between the gravel pack and bentonite plug.
7. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of the monitor wells and sample collection so that DEQ/WQD personnel may be on-site if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. Final location, construction details and logs of all monitoring wells;
 - b. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - c. Sample collection procedures;
 - d. Sampling analytical results;
 - e. A map delineating the extent of the subsurface contamination. Iso concentration map is requested.
 - f. A potentiometric surface map showing the direction of groundwater movement; and
 - g. Interpretation of data and conclusions including recommended remedial measures.

Conditions to Permit 88-273 (continued)

9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for TDS, pH and Specific conductance until other monitoring operations are allowed by the DEQ/WQD. The results of these analyses are due in the Cheyenne and Lander offices by the last day of the month following the end of each quarter in January, April, July, and October. Samples should be collected during the first week of the last month of each quarter to ensure timely submittal. The first set of quarterly results are due by the last day of October, 1988.
11. The static water level shall be taken on every monitor well quarterly prior to sampling the well.

cc: Jake Strohman

ing working ... have access to inspect the facilities, at the above local ... 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.

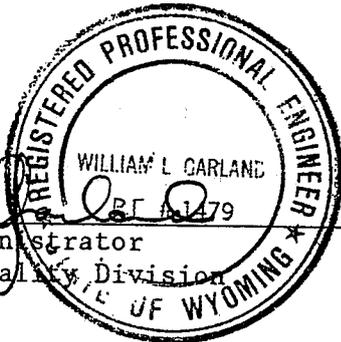
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William L. Garland

Administrator
Water Quality Division
STATE OF WYOMING
8-2-88

Date of Issuance



Robert Wood

Director
Dept. of Environmental Quality

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

Conditions

1. A sludge disposal plan must be approved by the DEQ/Solid Waste Management Division prior to placing the system in operation.
2. The line from the old pond to the river must either be removed or plugged with concrete as soon as the new pond is placed in service.

THE STATE



OF WYOMING



Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

October 27, 1988

Fred Oedekoven
Oedekoven Water and Hot Oil Service
Post Office
Recluse, Wyoming 82725

Dear Fred:

As per your request, Water Quality Land Application Permits 88-096 through 88-101, 88-265 and 87-275 have been extended until January 1, 1989. All other conditions contained in the original permits still apply.

Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Susan Fields".

Susan Fields
NE District Supervisor
Water Quality Division

SF:jj

xc: Tom Clayson, BLM
~~Archives File~~
Sheridan Plan File

file

PERMIT TO CONSTRUCT

PERMIT NO. 88-275
SEE SPECIAL CONDITIONS
Ref. No. 84-547

X New
Renewal
Modified

Brown's Disposal Lagoons

This permit hereby authorizes the applicant:

Waste, Inc.
P O Box 133
Evanston, WY 82931

to construct, install or modify monitor wells according to the procedures and conditions of the application number 88-275. The facility is located in Section 6, SW $\frac{1}{4}$, T17N, R120W in the county of Uinta, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

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

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

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

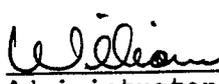
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

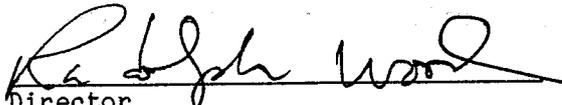
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

8-4-88
Date of Issuance

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

Conditions for Monitoring Wells

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-275. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination.

Conditions to Permit 88-275 (continued)

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

Conditions to Permit 88-275 (continued)

- e. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - f. A potentiometric surface map showing the direction of groundwater movement; and
 - g. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the parameters listed below:

TDS, sulfates, chlorides, calcium, sodium, magnesium, aluminum, barium and chromium

The results of these analyses shall be submitted to the Cheyenne and Lander offices by the last day of the month following the end of each quarter. The first set of results are due by the last day of October, 1988.

11. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

cc: Jake Strohman
Bill Locke

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 88-276RR

JACKSON APARTMENTS
(Name of Facility)

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

JACKSON APARTMENTS

856 COFFEEN AVE.

SHERIDAN, WY 82801

to construct, install, or modify a sewage collection lines and lift station, water main to buildings facility according to the procedures and conditions of the application No. 88-276. The facility is located in SE1/4 NW1/4 Sec. 6, T40N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of 2 years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

The permittee shall allow authorized representatives from the

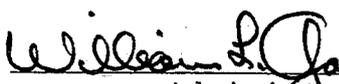
Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

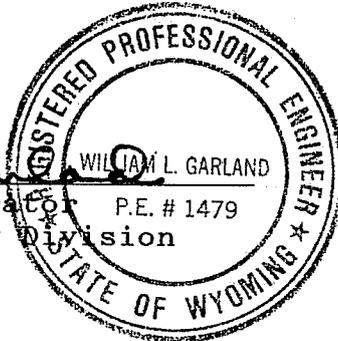
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



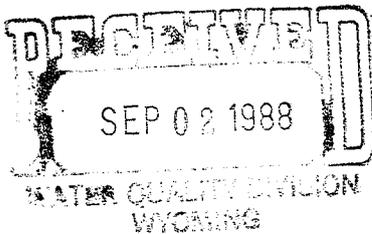


Director
Dept. of Environmental Quality

9-9-88

Date of Issuance

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



REVIEW OF PLANS AND SPECIFIC
WYOMING DEPARTMENT OF ENVIRONMENT

*Send to
Water Quality*

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

PROJECT: Jackson Apartments
ENGINEER: J. David Konkell
1E. Alger, Suite 219
Sheridan, WY 82801
OWNER: Jackson Apartments
856 Coffeen Ave.
Sheridan, Wy 82801



WATER QUALITY DIVISION REFERENCE NUMBER: 88-276R

REVIEWING EVALUATOR: Jeff Hermansky

Jeff Hermansky

DATE OF REVIEW: August 23, 1988

ACTION: NOT AUTHORIZED.

COMMENTS: Thank you for your response to my July 25, 1988 review letter. Most of my questions have been adequately addressed. However, I still have the following comments:

- I. A manhole needs to be installed where the sewer line from the buildings meets the sewer on Corner Creek Lane. The plans show a clean out.
- II. I am still concerned that there could be a freezing problem in the forced sewer main between the valve manhole and the existing manhole. The line is only 3 1/2 feet from the ground surface where it enters the existing manhole. I believe that the shallow portion of the line should be insulated.

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 88-278
SEE SPECIAL CONDITION

X New
Renewal
Modified

LARAMIE COUNTY FIRE DISTRICT #8 SEPTIC SYSTEM

This permit hereby authorizes the applicant:

Laramie County Fire District #8
521 E. 1st Street
Cheyenne, Wyoming 82007

to construct, install or modify a small septic system according to the procedures and conditions of the application number 88-278. The facility is located in Section 23, T14N, R69W, 1/4 NESW in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

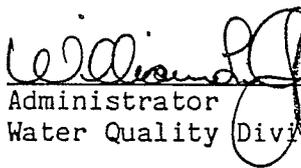
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

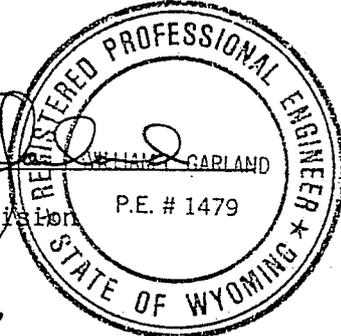
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

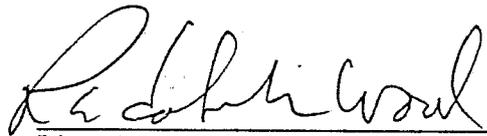
The issuance of this permit does not convey any property rights in either real or personal property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division



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


Director
Department of Environmental Quality

7-29-88
Date of Issuance

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

SPECIAL CONDITION FOR PERMIT 88-278

The permittee shall notify Don Pack, Laramie County Environmental Health, 1700 Snyder Avenue, Cheyenne, Wyoming 82001, phone number (307) 638-8545 of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.

cc: Don Pack, Laramie County Environmental Health

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Laramie County Fire District #8 Septic System

ENGINEER: Paul Sahler
P. O. Box 5023
Cheyenne, WY 82003

APPLICANT: Laramie County Fire District #8
521 E. 1st Street
Cheyenne, WY 82007

WATER QUALITY DIVISION REFERENCE NUMBER: 88-278

REVIEWING ENGINEER: Thomas S. Norman *TSN*

DATE OF REVIEW: July 18, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. Design information was not submitted on how the design flows were obtained, what are the flow sources and if there is anything else beside domestic sewage. Are there floor sumps that discharge?
2. The plans need to be signed/sealed by a Wyoming professional engineer.
3. The septic tank does not meet the minimum 2:1 length to width ratio.

/jn

88-279

Sleepy Hollow
Interceptor Sewer

appl' Withdrawn
per Mike Hackett

7-20-88

County to issue
permit

Filed



PERMIT TO CONSTRUCT

PERMIT NO. 88-280
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

SOUTH BAXTER PLANT

This permit hereby authorizes the applicant:

Questar Pipeline Company
79 South State Street
Salt Lake City, Utah 84117

to construct, install or modify monitor wells according to the procedures and conditions of the application number 88-280. The facility is located in Section 16, T16N, R104W NW $\frac{1}{4}$ SE $\frac{1}{4}$ in the county of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

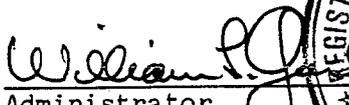
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

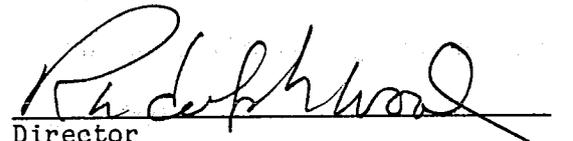
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

8-2-88
Date of Issuance

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

Special Conditions for Permit to Construct 88-280

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-280. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination of product layers and dissolved constituents.

Conditions to Permit 88-280 (continued)

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level;
 - d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1-2 feet above highest expected groundwater table;
 - g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
7. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
8. The results of any analyses conducted on soil or water removed from these wells or boreholes shall be provided to the department as soon as they are available.

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

PERMIT TO CONSTRUCT

PERMIT NO. 88-281
SEE SPECIAL CONDITION

- X New
- Renewal
- Modified

HOLIDAY INN 6" FIRE LINE

This permit hereby authorizes the applicant:

North Platte Water & Sewer District
P O Box 614
Casper, Wyoming 82602

to construct, install or modify a municipal water distribution system according to the procedures and conditions of the application number 88-281. The facility is located in Section 4, T33N, R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

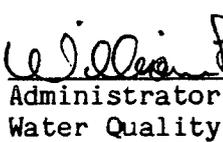
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

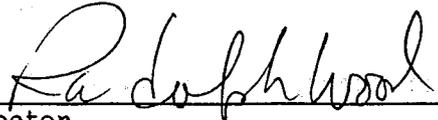
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division




Director
Department of Environmental Quality

7-20-88
Date of Issuance

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

SPECIAL CONDITION FOR PERMIT 88-281

1. Any discharges from dewatering shall be permitted by the Department of Environmental Quality, Water Quality Division. Contact John Wagner at 777-7781.

cc: John Wagner, DEQ/WQD
Casper Board of Public Utilities

PERMIT TO CONSTRUCT

PERMIT NO. 88-282
SEE SPECIAL CONDITION

X New
Renewal
Modified

Baker Small Septic System

This permit hereby authorizes the applicant:

George R. and Margaret Baker
Box 148
Hawk Springs, WY 82217

to construct, install or modify small wastewater system according to the procedures and conditions of the application number 88-282. The facility is located in S13, T21N, R62W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

William J. [Signature]
Administrator
Water Quality Division

A. Alan Edwards
Director
Department of Environmental Quality

March 13, 1989
Date of Issuance

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

CONDITION TO PERMIT TO CONSTRUCT #88-282

The design of the existing septic tank is unknown. This tank will be excavated to the extent that its design can be determined. Plans showing the design of the tank will be submitted to the Water Quality Division. If it does not meet applicable specifications, it will be modified, or a new tank installed, to meet the specifications.

/nc



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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October 5, 1988

G. Robert and Margaret Baker
Box 148
Hawk Springs, WY 82217

Dear Mr. and Mrs. Baker:

Our records indicate your application for a permit to construct has not been resubmitted to this office for review and authorization. The specific information for your proposed project are:

Facility name:	Baker Small Septic System
DEQ/WQD Reference Number:	88-282
DEQ/WQD Reviewing Engineer:	David Montague
Date of DEQ/WQD Review:	July 20, 1988

According to Chapter III of the Water Quality Rules and Regulations, Section 7(b)(2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide the requested information within that period, the entire incomplete application shall be returned."

Please indicate below the status of your application and return this form to our office:

- The application will not be resubmitted as the proposed project has been cancelled.
- The application will be resubmitted within 30 days.
- The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.
- Other remarks _____

G. Robert and Margaret Baker

October 5, 1988

Page 2

You are reminded that the construction, installation, or modification of any sewerage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes. Unless the Water Quality Division review engineer receives information concerning the status of this project within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,

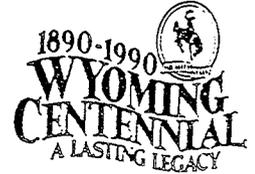


Thomas S. Norman
Southeast District Supervisor
Water Quality Division

TSN/jn



MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration (307) 777-7937	Air Quality Division (307) 777-7391	Land Quality Division (307) 777-7756	Solid Waste Management Program (307) 777-7752	Water Quality Division (307) 777-7781
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July 28, 1988

CERTIFIED

Phil Hamner, Operations Mgr
Parker Drilling
P.O. Box 1030
Mills, Wyoming 82644

88-283
permit denied
7/28/88
mailed
8-16-88

RE: Notice of Violat
Permit 79-426
Drainfield Locat
Casper, Natrona

Dear Mr. Hamner:

On March 16, 1988, ~~information~~ concerning your operation of the above-referenced sump. Based on the information you submitted, we believe that you have been discharging wastes containing from .02% to 1.61% petroleum hydrocarbons directly to the groundwater. The enclosed Notice of Violation is issued because of the extremely high levels of contamination being discharged to a class I aquifer of the state of Wyoming.

On July 14, 1988, you applied for an operating permit (DEQ/WQD Ref. No. 88-283), known as an Underground Injection Control permit to continue this practice. This letter will serve as official notification that this permit is officially denied. This permit is denied for the following reasons:

1. It is not in keeping with the Water Quality Divisions statutory obligation to protect groundwater quality from being degraded; and
2. This discharge may pose a clear and present danger to public health and safety.

If you desire, you may request a hearing before the Environmental Quality Council to appeal this decision. A request for a hearing must be made in writing within 60 days of the receipt of notification of the denial to the Director, Department of Environmental Quality and shall state the grounds for the request. Any hearing shall be conducted pursuant to the regulations of the Department of Environmental Quality.

The Water Quality Division suggests that you stop using water from your two wells until this water has been thoroughly checked for a wide range of toxic organic chemicals. Until this is done, we suggest that you use bottled water for drinking. The State Engineer's Office has been informed concerning the possible contamination of this aquifer in your wells covered by permit UW 49456.

The Water Quality Division is requesting that you immediately stop using the sump, have the wastes in it pumped out and disposed of properly, and that you immediately convert this system to a non-discharging sump system. Because of the extremely serious nature of the contamination caused by this sump, we are requesting that you apply for a permit to modify this sump within 1 week of receipt of this letter and be prepared to begin construction on a non-discharging system within 3 weeks of the receipt of this letter.

The Water Quality Division is requesting that you supply us with a list of the current owners of all water wells within 1 mile of your facility. We would like this list within 30 days of the receipt of this letter.

The Water Quality Division is requesting that you conduct a remedial site investigation, including installation of monitor wells, trench sampling, and such other technics as may be expedient and necessary to delineate the plume caused by this facility. Water Quality Division requests that you begin this investigation within 1 week of receipt of this letter.

The Water Quality Division views this case as extremely important, bordering on an emergency situation. The concentration of the waters in this system is approximately 10,000 times as concentrated as wastes that caused the Brookhurst Subdivision case. With the large number of domestic water wells in the area, the potential for third party harm is extremely large.

Your immediate consideration of these requests, along with immediate action, will weigh heavily in your favor when the department is considering subsequent enforcement action or the assessment of civil fines and penalties.

Sincerely



William L. Garland
Administration
Water Quality Division

WLG/RFL/nc

xc: Mike Strieby, EPA Region VIII
Tom Norman, DEQ/WQD, Southeast Districe Supervisor
Jake Strohman, DEQ/WQD, Groundwater Operations Supervisor
Larry Robinson, DEQ/WQD, Engineering Supervisor
Nelson Frissell, M.D., Natrona County Health Department
Ken Hoff, Natrona County Sanitarian, Natrona County Health Department
Steve Jones, Attorney General's Office
Mike Penz, State Engineer's Office

RF

PERMIT TO CONSTRUCT

PERMIT NO. 88-285
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Wyoming Refining Company

This permit hereby authorizes the applicant:

Wyoming Refining Company
740 West Main
Newcastle, WY 87201

to construct, install or modify nine recovery well groundwater control/containment system according to the procedures and conditions of the application number 88-285. The facility is located in NW $\frac{1}{4}$ SW $\frac{1}{4}$ S29, T45N, R61W in the county of Weston, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

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

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

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

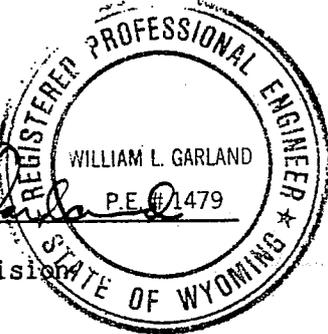
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

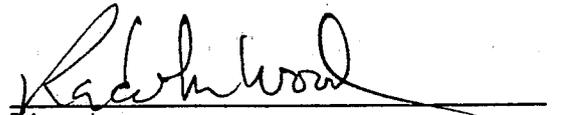
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Groundwater Engineer,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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division


Director
Department of Environmental Quality

8-15-88

Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #88-285

1. The recovery well system shall be installed in accordance with the plans and specifications submitted in permit to construct application number 88-285, except where allowed or required within the conditions of this permit.
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(a), a deviation is hereby granted for those recovery wells prevented by physical limitations to adherence to the requirements for minimum depths of seal below ground surface as detailed in Chapter XI, Part 5. However, a sufficient seal shall be installed according to normal engineering practice.
3. Well vaults or caps shall be kept locked at all times other than for monitoring or maintenance purposes. Any tampering with the wells shall be reported immediately to the division. The wells shall be clearly numbered and labeled as recovery wells.
4. The issuance of this permit does not relieve the permittee from obligations to complete an extent of contamination study and any further remedial actions which may be required.
5. In addition to the recovery well construction information submitted with the permit application, the following items relating to the construction must be addressed when the wells are installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The screened interval shall extend at least two feet above the highest expected seasonal groundwater level and at least one foot into the underlying unweathered shale.

Conditions to Permit 88-285 (continued)

- c. The bottom cap must be installed to prevent sediment from entering the recovery wells.
 - d. The well vaults shall be constructed to promote surface drainage away from the well head and to prevent surface water or sediments from entering into the recovery well.
6. DEQ/WQD personnel shall be given at least two weeks or maximum possible notice prior to the installation of the recovery well system so that DEQ/WQD personnel may be on-site if deemed necessary.
 7. Well logs describing lithology and static water levels shall be recorded for the full extent of each recovery well. A "trench log" describing natural soils and/or lithology shall be recorded for the piping trench(es). The location and description of other pipelines encountered shall be recorded. Materials other than clays shall be described by methods that provide an objective measure of grain size, such as the Wentworth scale, phi-size, USCS, or similar established method. Any staining, odor, or occurrence of petroleum product shall be recorded in the logs.
 8. Within 60 days of the completion of the installation program, a report documenting and detailing the final design, construction, and on-site implementation of the recovery system shall be submitted to the WQD. This report shall include, at a minimum:
 - a. A topographic site map showing physical features, final well, pipeline, and trench locations and elevations;
 - b. Maps delineating the potentiometric surface and any free petroleum products encountered;
 - c. As-built construction details and the logs of the wells and trenches; and
 - d. The raw data and results of any tests conducted to determine permeability (hydraulic conductivity), storativity, or other aquifer characteristics.
 9. The following monitoring program is required for the recovery system:
 - a. The field parameters shall include the depth and elevation of pumping water levels; the depth, thickness, and elevation of any immiscible product occurrence; and evidence of sediment intrusion. Immiscible products shall include dense phase materials that may accumulate in the bottom(s) of the well(s). The presence of sheen, film, iridescence, odor, or other indicator of petroleum product shall also be recorded and reported.
 - b. The field parameters monitoring frequency shall be daily for the first two weeks; semi-weekly for the following month; and at least monthly thereafter.
 - c. Physical parameters to be monitored on a monthly basis for one year and quarterly thereafter shall include pumping rates and stream gauging records in Little Oil Creek and Cambria Creek.
 - d. All monitoring parameters shall be recorded in a daily, weekly, monthly, or quarterly report format.
 - e. Records from continuous recording devices or other operational records maintained by the permittee shall be made available to WQD.

Conditions to Permit 88-285 (continued)

- f. It is recommended that the well vaults or other associated enclosed spaces be monitored for potentially harmful vapors to reduce risks to health and safety of personnel on site.
10. The monitoring data and progress reports shall be submitted to the WQD in Cheyenne for review as follows:
- a. The first quarterly report shall include all monitoring of the recovery well system and piezometer system from the respective dates of installation and shall include the first 60 days of operation of the recovery wells, or until the end of the quarter in which operation begins if the system will have operated for at least 30 days.
 - b. Successive monitoring reports shall be submitted within 30 days of the end of each quarter; by the end of January, April, July, and October of each year.
 - c. An annual written report, due by February 1st, that summarizes and analyzes the effectiveness of the system. This shall include all pertinent monitoring of field, physical, and chemical parameters required by this permit and other permits associated with the system (88-258 to date) plus any other relevant information. Items to address in the evaluation of the effectiveness of the system include at a minimum:
 - (1) Rates and volumes (by period and cumulative) of pumped fluids and fluids disposed of or recovered from the separator/skimmer system.
 - (2) An evaluation of the radius of influence and effective zone(s) of capture of the recovery system.
 - (3) Map(s) illustrating the potentiometric surface; the location and thickness of any free petroleum product (immiscible phases), dissolved constituents, and other relevant parameters.
 - (4) An analysis of changing chemical concentrations or other parameters that aid in evaluating the rate and degree of progress of the system in reaching the corrective action standards.
 - (5) An analysis of groundwater flow rates and flow paths.
 - (6) A statement of "down time" for maintenance and repairs, condition of equipment, and other information regarding the operation and maintenance of the system.
11. The permittee shall notify the WQD in writing of the name (position), phone number, and address of the on-site operator of the recovery systems.
12. The permittee shall develop an operations and maintenance (O&M) manual within one year of the start of recovery operations. Copies of the O&M manual shall be provided to the Water Quality Division (WQD) and to all site personnel involved in the operation and maintenance of the system. The O&M manual shall contain, at a minimum, a schematic, operations guide, maintenance schedule, troubleshooting guide, discharge requirements and limitations, Department of Environmental Quality (DEQ) contact, provisions in the event of a spill, methods of handling and disposing of hydrocarbon product and contaminated water in a proper manner, and safety requirements.
13. A sand or gravel backfill is recommended for the piping system. Under no circumstances shall soils contaminated by petroleum products as evidenced by

Conditions to Permit 88-285 (continued)

staining or odor be used as backfill materials.

14. Except for maintenance and repairs, the permittee shall operate the recovery system continuously unless the WQD allows other operational plans. This may require the system to be further "winterized" to prevent freezing and related breakdowns. The WQD is to be notified immediately in the event of a breakdown or extended maintenance period (more than 24 hours).
15. The results of any chemical analysis of soil or water sampled obtained from any of these recovery wells, piping or skimmer separator shall be submitted to the WQD within 30 days of the receipt of the results from the laboratory. In the event that samples are obtained, proper well evacuation, sample collection, preservation, transportation, and chemical analytical methods shall conform to protocol and procedures acceptable to the WQD. "Blank corrected" results alone are not acceptable. Data pertaining to blanks must be submitted concurrently with the sample analytical results.
16. Manifest records, receipts and other documentation of the disposal of petroleum product derived from the separator/skimmer system shall be maintained by the permittee and submitted to the WQD or Solid Waste Management Program immediately upon request.
17. Any spills of product or wastewater in excess of 25 gallons must be reported to the DEQ/WQD immediately. All spills must be cleaned up and physical removal is ordinarily required.
18. In the event that wastewater is to be discharged to the storm sewer or the surface, the NPDES section shall be contacted and all letters of approval or permits required obtained prior to release or discharge.
19. This recovery system shall be installed and made operational within 120 days of the permittee's receipt of this permit.

cc: Jake Strohman, DEQ/WQD, Cheyenne
Susan Fields, DEQ/WQD, Sheridan



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756
FAX (307) 634-0799

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781
FAX (307) 777-5973

August 18, 1992

Mr. Dennis J. McCormick
President
Wyoming Refining Company
1600 Broadway, Ste. 2500
Denver, CO 80202

Dear Mr. McCormick:

Per your request, please be advised that the Water Quality Division (WQD) accepts your request to monitor and sample groundwater from the four (4) DEQ monitoring wells (DEQ #1-4) in the North Tank Farm area of Wyoming Refining Company's (WRC) Newcastle refinery. By this letter, WQD authorizes WRC to remove the DEQ locks on these wells and replace them with WRC locks. If so desired, WQD will consider similar cooperation for other DEQ wells along the refinery's perimeter.

In return, WQD expects that any groundwater monitoring and sampling information obtained by WRC or its contractors from these wells be provided to the Cheyenne office, and that WQD be provided future access to obtain groundwater monitoring and sampling information from these wells upon sufficient notification and request to WRC. Additionally, WQD requests that a duplicate of the key to the new locks be provided.

Also, please be advised that the WQD will accept your request to re-schedule the due date, as stipulated in WQD's Permit to Construct #88-285, of WRC's Annual Report on the operational effectiveness of the groundwater recovery system. As requested, WQD will extend the due date of this report to February 28 of each year to more closely coincide with WRC's reporting date on the same issue to the US EPA.

Please feel free to contact me if you have any questions.

Sincerely,

Kevin D. Frederick
Supervisor
Groundwater Pollution Control Program

KDF/dkk/22910.ltr

cc: Mr. Richard Davis
Mr. Val Jackson
Mr. Dennis Hemmer
Mr. Bill Garland

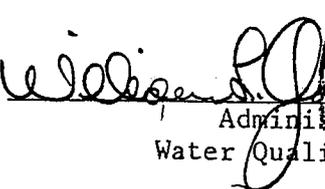
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

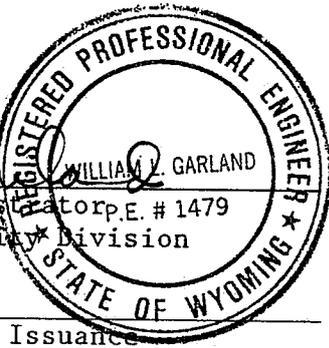
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
8-7-88
Date of Issuance




Director
Dept. of Environmental Quality

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

Conditions for Monitoring Wells

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 88-286. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice. (con't)

3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial actions which may be required. Depending on the results of the subsurface contamination investigation, additional site investigations or remedial measures may be required by the WQD. An adequate number of wells shall be installed to define the extent of contamination of product layers and dissolved constituents.



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

October 11, 1988

Town of Basin
P.O. Box 599
Basin, WY 82410

RE: Holdridge Ave/3rd St. sewer,
DEQ application No. 88-287R

Dear Mayor and Council:

Thank you for having your engineer, Sherman Allred, submit a letter indicating his review and approval of the Holdridge Ave - Third Street sewer design and construction. Sherman noted that the plans correctly represent the sewer as constructed.

The Water Quality Division cannot issue a permit to construct for this sewer project since it is already constructed. However, since the designed and constructed improvements meet the intent of the regulations, we are issuing this letter as authorization of the as-built construction.

In the future, please submit plans and application forms prior to installing any new, or making modifications to, your water or sewer system.

Thank you for your cooperation.

Sincerely,

Jeff Hermansky

JH/anc

xc: Sherman Allred, Donnell & Associates
Plans, 88-287R
File (2)

ARCHIVES

PERMIT TO CONSTRUCT

PERMIT NO. 88-288

- X New
- Renewal
- Modified

Francis E. Warren 86-0112 Oil-Water Separator Bldg 828

This permit hereby authorizes the applicant:

Jack Knudson
90 CSG IDE
FE Warren AFB, WY 82005-5000

to construct, install or modify oil/water separator according to the procedures and conditions of the application number 88-288. The facility is located in S35, T14N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) year (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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



Ralph Wood
Director
Department of Environmental Quality

8-17-88
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: F E Warren 86-0112 Oil and Water Separator Building

ENGINEER: Jordan Holland
90 CSG/DEE
F.E. Warren AFB, WY 82005-5000

APPLICANT:

WATER QUALITY DIVISION REFERENCE NUMBER: 88-288

REVIEWING ENGINEER: Thomas S. Norman *TBN*

DATE OF REVIEW: August 3, 1988

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

Two of my comments in my July 17, 1988 review were not addressed:

1. Design information was not submitted concerning the sizing of the interceptor (flow rates, influent and effluent quality). The UPC should be met.
2. Steel pipe is not acceptable for service connections.

/jn

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

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

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

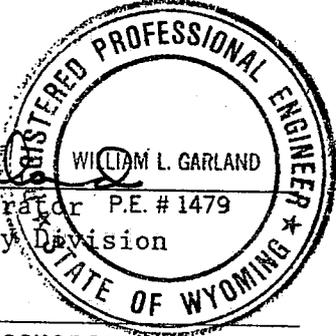
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

William L. Garland

WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
8-15-88

Date of Issuance



R. L. Wood

Director
Dept. of Environmental Quality

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



THE STATE

OF WYOMING

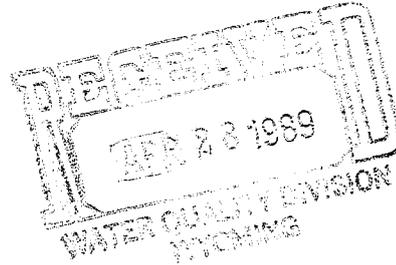


Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

April 26, 1989



Mr. W. L. Brister
Conoco, Inc.
851 Werner Court
Casper, Wyoming 82601-1311

Dear Mr. Brister:

This letter is to notify you that a time extension has been approved for your Meadow Creek Road Application permit (Water Quality Reference No. 88-290). The permit expiration shall now be September 15, 1989.

Please be aware that all other permit conditions contained in the original permit still apply.

Please contact me if there are any comments or questions.

Sincerely,

Susan Fields
NE District Supervisor
Water Quality Division

SF:jj

xc: Ed Schicktanz, Conoco
Tom Clayson, BLM, Buffalo Resource Area
Norma Coulson, DEQ/WQD, Archives File 88-290
Sheridan Plan File, 88-290

file
↓

LAND APPLICATION PERMIT

Permit No. 88-290
SEE SPECIAL CONDITIONS

MEADOW CREEK ROAD APPLICATION
(Name of Facility)

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

Conoco, Inc.

851 Werner Court

Casper, Wyoming 82601

To land apply waste oil to roads for dust control. The application site is located in Sections 2, 3, T.41N., R.78W. and Sections 26, 27, 34, 35, T.42N., R.78W., in the county of Johnson, in the State of Wyoming. This permit shall be effective for a period of six (6) months 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.

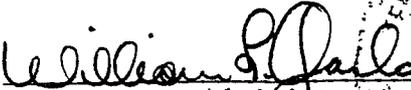
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the 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.

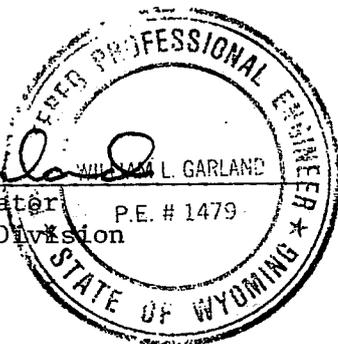
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions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

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

8-2-88

Date of Issuance

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

LAND APPLICATION STANDARD CONDITIONS

1. Waste oil shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8 percent for vehicular application.
3. Waste oil application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Susan Fields, 2161 Coffeen Avenue, Suite 501, telephone number 307/672-6457, 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 waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.
5. 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 during the period from November 1 to April 30.
6. This permit is in effect for a period of six (6) months. Any application of wastes beyond six months from the date of issuance shall be repermited.

Permit No. 88-290 (continued)

7. This permit is contingent on the applicant complying with any provisions required by BLM should waste application occur on Federal lease roads or if the waste is generated from a Federal lease.

xc: Tom Clayson
BLM, Buffalo Resource Area
189 N. Cedar
Buffalo, Wyoming 82834



THE STATE

OF WYOMING



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

July 26, 1988

Mr. Jerry James
First Interstate Bank of Riverton
P. O. Box 233
Riverton, Wyoming 82501

RE: Riverton LUST - Main Street Broderick Site
Monitor Well As-Built Authorization
WQD Reference No. 88-291

Dear Mr. James:

I have reviewed the application for a 'Permit to Construct' the monitor wells at the above referenced site. The well construction appears to meet the minimum design standards for the State of Wyoming. A 'Permit to Construct' cannot be issued since the wells have already been installed. Please retain this letter as verification that the facility has been accepted by the Wyoming Department of Environmental Quality with the following conditions:

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

ARCHIVES

Mr. Jerry James
July 26, 1988
Page Two

5. Depending on the results of subsurface contamination investigation additional site investigations or remedial measures may be required by the Water Quality Division.
6. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for benzene, ethylbenzene, toluene, and xylene according to EPA method 601/602 and Total Petroleum Hydrocarbons according to method 418.1. Sampling shall continue until other monitoring operations are allowed by the Department of Environmental Quality, Water Quality Division. When product layers exist they are to be measured and the above parameters need not be sampled for. The results of these analyses are due by the last day of the month following the end of each quarter in January, April, July and October. Samples should be collected during the first week of the last month of each quarter to ensure timely submittal. These samples are to be taken immediately and then again in September.
7. Prior to taking samples depth to water table must be measured. Report measurements along with lab analysis.

Once we have received the lab results we will make a determination as to what additional work will be required if any. We will require sampling for at least one year to allow observation during both low and high groundwater periods.

I would like to clarify a statement by Ed Finch in his letter to you dated July 20. Ed stated that DEQ suggested that you engage Core Labs and that we 'generally' use them. DEQ does not recommend Core Lab over any other qualified lab. Further, Core Lab is not the lab DEQ "generally" uses, although we have used them.

Thank you for your cooperation and if you have any questions do not hesitate to contact me.

Sincerely,



Steven P. Gerber, P.E.
Northwest District Supervisor

SG:ah

cc: Jake Strohman

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 88-295R

BURGESS JUNCTION MAINTENANCE CAMP
SUBSURFACE WASTEWATER DISPOSAL SYSTEM
(Name of Facility)

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

Wyoming Highway Department

P. O. Box 668

Sheridan, Wyoming 82801

to construct, install or modify a septic tank with distribution drain field facility according to the procedures and conditions of the application No. 88-295R. The facility is located in Section 1, T.89N., R.55W., in the County of Sheridan, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

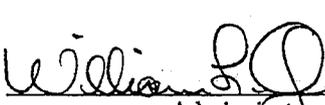
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:



Administrator
Water Quality Division P.E. # 1479





Director
Dept. of Environmental Quality

9-22-88

Date of Issuance

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

xc: Dan J. Allen
TSP
P.O. Box 1039
Sheridan, WY 82801

PERMIT TO CONSTRUCT

- [X] New
[] Renewal
[] Modified

Permit No. 88-296R

POLE CREEK MAINTENANCE CAMP

SUBSURFACE WASTEWATER DISPOSAL SYSTEM

(Name of Facility)

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

Wyoming Highway Department

P. O. Box 668

Sheridan, Wyoming 82801

to construct, install or modify a septic tank with distribution drain field facility according to the procedures and conditions of the application No. 88-296R. The facility is located in Section 14, T.84N., R.49W., in the County of Johnson, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

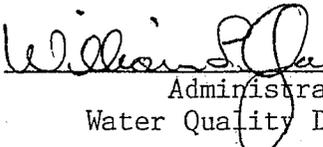
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

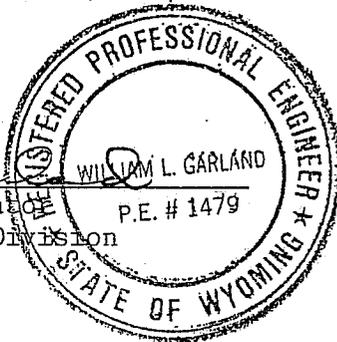
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

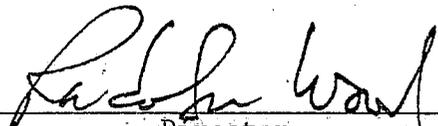
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:


Administrative
Water Quality Division




Director
Dept. of Environmental Quality

9-22-88
Date of Issuance

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

xc: Dan J. Allen
TSP
P.O. Box 1039
Sheridan, WY 82801

PERMIT TO CONSTRUCT

PERMIT NO. 88-297
See Conditions

X New
Renewal
Modified

Edness Kimball Wilkins State Park

This permit hereby authorizes the applicant:

Wyoming Recreation Commission
John Bruner
122 West 25th Street
Cheyenne, WY 82002

to construct, install or modify commercial drainfield system for effluent from reverse osmosis unit according to the procedures and conditions of the application number 88-297. The facility is located in S2, T33N, R78W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

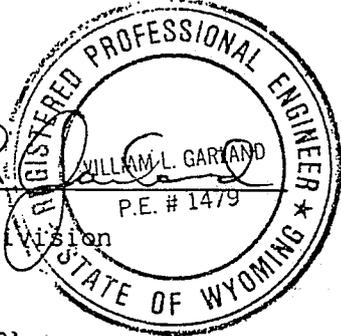
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:


William L. Garland
Administrator
Water Quality Division


Director
Department of Environmental Quality

8-9-88
Date of Issuance

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

Conditions for Permit to Construct 88-297

The permittee shall notify Ken Hoff, Natrona County Health Department, 1200 East 3rd, Casper, Wyoming 82601-2990, phone number 235-9316, of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. At least one working day (24 hours) notice is required prior to backfilling.

cc: Ken Hoff

Wescon Corporation
P O Box 1721
Great Falls, MT 59403

PERMIT TO CONSTRUCT

[X] New

Permit No. 88-298R

[] Renewal

[] Modified

Jarski Small Wasteway Treatment Facility
(Name of Facility)

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

Mike Jarski

1062 Lane 13

Lovell, WY 82431

to construct, install, or modify a septic tank, pumping chamber and elevated disposal field facility according to the procedures and conditions of the application No 88-298. The facility is located in Jarski - Long Subdivision in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of 2 years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

The permittee shall allow authorized representatives from the

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

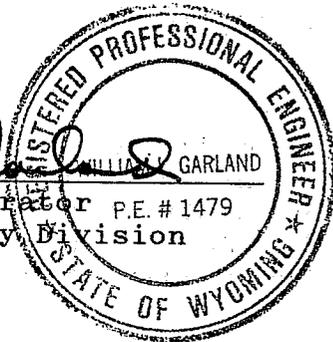
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

William J. Garland
Administrator P.E. #1479
Water Quality Division



Richard Howard
Director
Dept. of Environmental Quality

9-9-88

Date of Issuance

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

PERMIT TO CONSTRUCT

New Permit No. 88-299
 Renewal

Modified
Kemmerer Sludge Drying Beds
(Name of Facility)

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

City of Kemmerer

P.O. Box 312

Kemmerer, WY 83101

to construct, install, or modify a drying bed for the dewatering of municipal wastewater sludge facility according to the procedures and conditions of the application No. 88-299. The facility is located in Sec. 11, 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.

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

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

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

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

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

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

AUTHORIZED BY:

William L. Garland
Administrator
Water Quality Division



Ra Duke Wood
Director
Dept. of Environmental Quality

10/13/88
Date of Issuance

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