

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 13, 1989

Lawrence Price
City Engineer, City of Newcastle
10 W. Warwick
Newcastle, WY 82701

RE: City of Newcastle, Wyoming C560162, DEQ/WQD Ref. No. 89-501, Approval of Plans and Specifications

Dear Larry:

The plans and specifications for the construction of the Inlet Structure Modifications to the wastewater irrigation system have been reviewed by the State of Wyoming Department of Environmental Quality. This office hereby approves the plans and specifications and is enclosing a permit to construct. This permit does not supercede the requirements for obtaining any permit from local or state agencies.

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

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

Formal bidding is not required for this project because the cost is estimated at less than \$7,500, in accordance with state law procurement requirements. This is confirmation of our verbal authorization for proposals to be solicited. Please submit a copy of the proposals received and the selected proposal. Following approval of the selected proposal, you will be notified that the contract may be awarded.

Sincerely,

Shawn Sullivan
Engineering Specialist
Water Quality Division

SS/nc

cc: EPA, Region VIII
Grant File

87

PERMIT TO CONSTRUCT

PERMIT NO. 89-501

New
 Renewal
 Modified

City of Newcastle Inlet Structure Modifications to Wastewater Irrigation System

This permit hereby authorizes the applicant:

City of Newcastle
10 West Warwick
Newcastle, WY 82701

to construct, install or modify wastewater irrigation system inlet structure according to the procedures and conditions of the application number 89-501. The facility is located in NE $\frac{1}{4}$ S35, T45N, R62W 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: 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:

For Michael F. Hechatt, P.E.
Administrator
Water Quality Division

[Signature]
Director
Department of Environmental Quality

November 15, 1989
Date of Issuance

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

SS/nc

RF

PERMIT TO CONSTRUCT
Conditions

- New
- Renewal
- Modified

Permit No. 89-502

Former Yellowstone Bank Building Site Assessment
(Name of Facility)

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

City of Lander
c/o Ed Newell II
933 Main
Lander, WY 82520

to construct, install, or modify a series of groundwater monitor wells facility according to the procedures and conditions of the application No. 89-502. The facility is located in SE 1/4 NE 1/4 Sec 18, T33N, R99W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

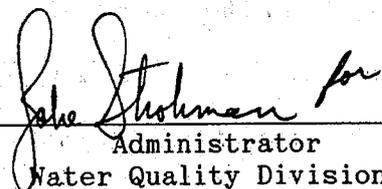
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

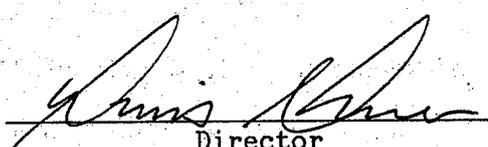
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

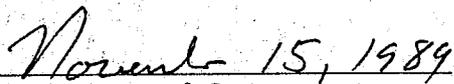
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

This permit does not supersede 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 89-502. Additional wells meeting the requirements of the application this permit may be installed if prior approval is received from the Water Quality Division (WQD). Locations of wells shown on plan sheet may be modified as necessary.
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 shall be implemented when the wells are constructed, installed and developed:
 - 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; Factory slotted casing is recommended for the perforated interval;
 - 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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. A protective casing or cover and locking cap is required;
 - 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 at least one 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. 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 issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and

- j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed for the parameters listed below:
BETX and TPH

The results of these analyses shall be submitted to the Lander office by the last day of the month following the sampling.

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

R.F.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 89-503
 Conditions on Permit

Riverton TCI Monitor Wells
 (Name of Facility)

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

Tele-Communications, Inc.

224 E. Fremont St

Riverton, WY 82501

to install monitor wells for determination of groundwater quality according to the procedures and conditions of the application No. 89-503. The facility is located in Section 27, T1N, R4E in the County of Fremont, 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 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.

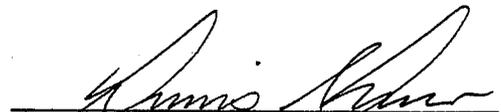
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

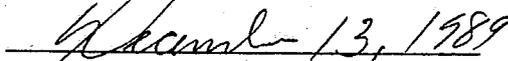
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



December 13, 1989
Date of Issuance

This permit does not supersede 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 89-503. Additional wells meeting the requirements of the application this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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.

3. 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.
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. 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.
5. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - 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; Factory slotted casing is recommended for the perforated interval;
 - 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. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - f. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.
6. 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.
7. Within 90 days of issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:

- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.
8. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
 9. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for BETX AND TPH.

If free product is found the above analysis will not be required, but the thickness of product shall be measured.

The results of these analyses shall be submitted to the Lander office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

10. 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.

SG/anc



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

210 Lincoln Street • Lander, Wyoming 82520

Air Quality Division
(307) 332-3144

Land Quality Division
(307) 332-3047

Solid Waste Management Program
(307) 332-3144

Water Quality Division
(307) 332-3144

December 13, 1989

Louisiana-Pacific Corporation
ATTN: Mr. Wilber Stewart
P.O. Box 787
Dubois, WY 82513

ARCHIVES

RE: Dubois Sawmill, Temporary Monitor Wells
89-504

Dear Mr. Stewart:

This office has completed a review of the as-built plans for the test pit monitor wells installed at the Louisiana-Pacific, Dubois sawmill. The installation meets the Water Quality Division (WQD) regulations for monitor wells and therefore, the as-built construction is authorized.

This authorization is granted with the following conditions:

- 1) Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the WQD.
- 2) 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.
3. 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.
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. 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.

Louisiana-Pacific Corporation

ATTN: Mr. Wilber Stewart

December 13, 1989

Page 2

5. 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.

A permit to construct won't be issued since the wells are already constructed. This letter will serve as authorization of their construction.

Thank you for your cooperation in supplying the information and investigating this site.

Sincerely,



Jeff Hermansky, P.E.
Water Quality Evaluator

JH/anc

xc: Jake Strohman, DEQ/WQD, Cheyenne
Gail Wilkinson, Chen-Northern, Inc., Casper
File (2)

-2

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 89-505R
Conditions on Permit

Wind River Ready Mix (Monitor Wells)
(Name of Facility)

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

Mr. Don Hahn

W.R.R.M., Inc.

P.O. Box 426

Riverton, WY 82501

to install four (4) groundwater monitor wells at the above noted facility according to the procedures and conditions of the application No. 89-505R. The facility is located in Section 34, NE SW T1N R4E in the County of Fremont, 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 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.

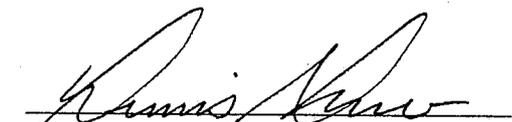
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


December 28, 1989
Date of Issuance

This permit does not supersede 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 89-505R. Additional wells meeting the requirements of the application 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 shall be implemented when the wells are constructed, installed and developed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. 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;
 - c. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.
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 issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;

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 shall be implemented when the wells are constructed, installed and developed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. 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;
 - c. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.
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 issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;

RF

PERMIT TO CONSTRUCT

PERMIT NO. 89-506R
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Yoder Well No. 12

This permit hereby authorizes the applicant:

Town of Yoder
P O Box 86
Yoder, WY 82244

to construct, install or modify test production well according to the procedures and conditions of the application number 89-506R. The facility is located in S15, T23N, R62W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of three months (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

January 11, 1990
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-506R

This permit is for the installation of one well for the purpose of performing a step test. The well therefore, is considered a test well and is not to be used as a production well until additional information concerning the design of the entire system and water quality data is submitted and approved. A permit will be issued for a production well when the system is approved.

SCF/nc

cc: Stephen O. Sandvik, P.E.
Wells Engineers, Inc.
570 W. 44th Ave., Suite 100
Denver, CO 80216

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 89-507

X New
Renewal
Modified

Horseshoe Valley Ranch, Waste Water #1

This permit hereby authorizes the applicant:

Horseshoe Valley Ranch Company
P O Box 93
Glendo, WY 82213

to construct, install or modify septic system according to the procedures and conditions of the application number 89-507. The facility is located in Section 23, T29N, R68W, SW in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of one (1) year (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

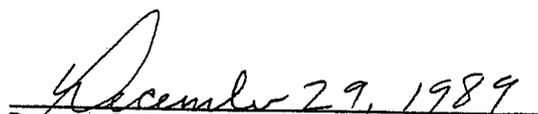
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

SCF/jt

LAND APPLICATION PERMIT

Permit No. 89-508
SEE SPECIAL CONDITIONS

BLACK HILLS PLUMBING & SUPPLY INC. LAND APPLICATION
(Name of Facility)

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

Black Hills Plumbing & Supply Inc.
1122 S. Summit
Newcastle, WY 82701

To land apply diesel contaminated soil. The application site is located in Section 3, T.44N., R.61W., in the County of Weston in the State of Wyoming.

This permit shall be effective for a period of one year from the date of issuance.

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 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:

for Laurence Robinson
Administrator
Water Quality Division

James R. ...
Director
Dept. of Environmental Quality

November 22, 1989
Date of Issuance

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

LAND APPLICATION SPECIAL CONDITIONS

1. Apply contaminated soil in a 2" to 3" thick layer.
2. Volatilize the contamination by disking or respreading the material one week subsequent to the initial application and one week subsequent to that.
3. Apply material in areas where storm runoff will not spread the contamination and at least 300' from intermittent or perennial drainages.

BJ:jj

RF

PERMIT TO CONSTRUCT

PERMIT NO. 89-509

New
Renewal
X Modified

RED BUTTES ENVIRONMENTAL LABORATORY

This permit hereby authorizes the applicant:

University of Wyoming
P. O. Box 3227
Laramie, Wyoming 82071-3227

to construct, install or modify a septic system according to the procedures and conditions of the application number 89-509. The facility is located in Section 21, NW/NE T14N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of one (1) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable 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:

Lawrence Robinson

for
Administrator
Water Quality Division

James G. ...

Director
Department of Environmental Quality

November 28, 1989

Date of Issuance

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

SCF/jn

R.F.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 89-510
 Conditions on Permit

Park County School District #16 MW-Meteetsee
 (Name of Facility)

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

Park County School District #16

P.O. Box 218

Meteetsee, WY 82433

to install monitor wells for determining groundwater quality according to the procedures and conditions of the application No. 89-510. The facility is located in Section 4, T48N, R100W in the County of Park, 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 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.

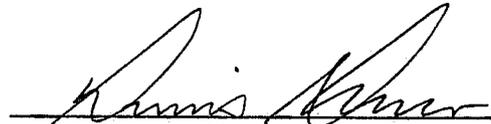
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

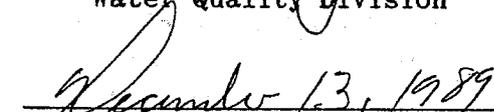
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

This permit does not supersede 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 89-510. Additional wells meeting the requirements of the application this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. 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.

3. 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.
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. 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.
5. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. 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;
 - c. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
6. 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.
7. Within 90 days of issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;

- e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.
8. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
9. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for BETX AND TPH.

If free product is found the above analysis will not be required, but the thickness of product shall be measured.

The results of these analyses shall be submitted to the Lander office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

10. 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.

SG/anc

LAND APPLICATION PERMIT

Permit No. 89-511
SEE SPECIAL CONDITIONS

NAVAL PETROLEUM RESERVE B-3-2 FACILITY, ROAD APPLICATION
(Name of Facility)

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

U.S. Department of Energy
800 Werner Court, Suite 342
Casper, Wyoming 82601

To land apply produced water and waste for dust control. The application site is located in Section 1-36, T.38 & 39N., R.78W., in the County of Natrona in the State of Wyoming. This permit shall be effective until June 1, 1990.

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.

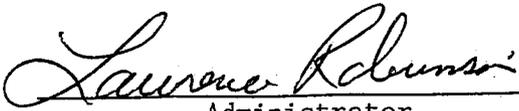
Nothing in this permit constitutes an endorsement of the disposal method described herein. This permit indicates only that standards required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way guarantee the performance of, the permittee in the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

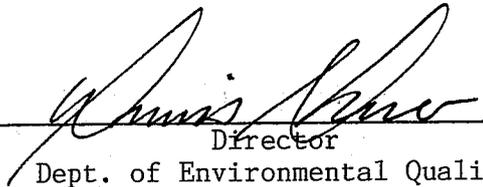
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulations.

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.

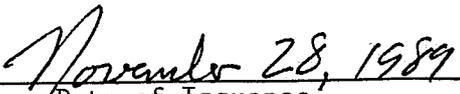
AUTHORIZED BY:



Administrator
for Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

LAND APPLICATION SPECIAL CONDITIONS

1. Produced water and wastes 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 of saturated or frozen conditions.
2. The application site slope shall not exceed eight percent for vehicular application.
3. 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 shall contact the Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming telephone number 307/672-6457, prior to initiation of work. The District Engineer shall be notified at least 48 hours in advance of discharges and must be informed of how much waste oil will be applied (number of truck loads), the specific site of application (to the nearest 1/4 section) and time of application.
5. Produced water and waste applied to a road shall be mechanically incorporated into the road bed as it is applied.
6. This permit is in effect until June 1, 1989. Any application of wastes beyond that date shall be repermited.

BJ:bj

LAND APPLICATION PERMIT

Permit No. 89-512
SEE SPECIAL CONDITIONS

JOHNSON COUNTY STORAGE AREA LAND APPLICATION
(Name of Facility)

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

Johnson County Commissioners

76 N. Main

Buffalo, Wyoming 82834

To land apply gasoline/diesel contaminated soil. The application site is located in Section 22, T.51N., R.82W., in the County of Johnson in the State of Wyoming. This permit shall be effective for a period of one year from the date of issuance.

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 provisions of this permit.

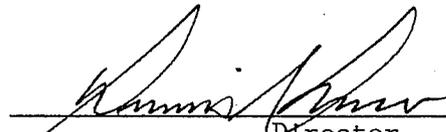
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulations.

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.

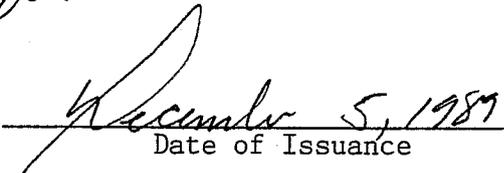
AUTHORIZED BY:



Administrator
for Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

LAND APPLICATION SPECIAL CONDITIONS

1. Prior to spreading, contaminated material should be sufficiently dry as to not have any liquid contaminant runoff.
2. After the initial spreading of the material, aid the volatilization of the contaminated material by disking or respreading the material at least three times with a minimum of two (2) weeks and a maximum of four (4) weeks between each spreading.
3. Apply the material in areas where storm runoff will not spread the contamination and at least 300' from intermittent or perennial drainages.

GPB:jj

MEMORANDUM

TO: Files -

UST Facility #3516, Trailside General Store, West Highway, Torrington [Permit #89-015]
UST Facility #1893, Laramie Heating & Sheet Metal, 602 Skyline Dr., Laramie [#89-034]
UST Facility #1853, Hartman Distributing, 1070 N. 3rd St., Laramie [Permit #89-221]
UST Facility #1228, Spring Creek Conoco, 1409 S. 3rd St., Laramie [Permit #89-231]
UST Facility #2952, Foster's Country Store #4, 1465 N. 3rd St., Laramie [Permit #89-513]

FROM: Clay Rowley, SE District Supervisor, UST/LUST Program

DATE: September 17, 1993

SUBJECT: Retraction of Notices of Violation Issued Prior to Passage of the "Water Pollution from Underground Storage Tank Corrective Action Act of 1990"

Prior to March 1990, Wyoming Department of Environmental Quality, Water Quality Division (WQD), personnel determined that petroleum hydrocarbons derived from underground storage tank systems at the facilities listed above had contaminated the soil and groundwater. State and federal regulations consider this contamination as an unauthorized discharge and letters of violation (LOV's) were issued requiring the owner/operators to take corrective action including abatement, an extent of contamination investigation, free product removal, and cleanup of the contamination.

The 1990 budget session of the Wyoming Legislature passed the "Water Pollution from Underground Storage Tank Corrective Action Act of 1990". Section 35-11-1418(a) of this act states in part that "The state attorney general shall move to dismiss any pending or ongoing suits or administrative actions which are based on the requirement the owner and operator take corrective action" In keeping with this directive the WQD retracted the letters of violation issued to the owner/operators of the facilities listed above, and the owner/operators were no longer required to take corrective action as requested provided:

The owner/operators became, and remain, eligible for use of the act's corrective action funds by paying an annual (fiscal year) site fee of \$200 until the Water Quality Division completes investigation and cleanup based on a priority ranking system of the contaminated states in Wyoming.

As long as the locations remain eligible for use of corrective action funds the state will remain responsible for corrective action based on the ranking system. The sites posing the greatest risk to the public health, safety and welfare and to the environment will be addressed first. The state will be responsible for site investigation and cleanup costs as long as eligibility is maintained.

The files listed above do not have copies of the LOV retraction letters in them, and it may be that they were never formally issued. The purpose of this memorandum is to show that the owner/operators of these facilities are no longer responsible for site investigations and cleanup as long as eligibility for use of corrective action funds at these locations is maintained.

Construction applications are withdrawn.

PB

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 89-514R

Black Butte Coal SP-LH1 Sediment Reservoir
(Name of Facility)

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

Black Butte Coal Company

P. O. Box 98

Point of Rocks, WY 82942

to construct a sediment pond designed to intercept surface runoff from pits 21 and 22 disturbance facility according to the procedures and conditions of the application No. 89-514R. The facility is located in SW 1/4, NE 1/4, Section 34, T21N, R101W 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.

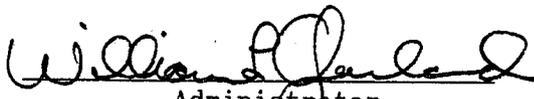
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

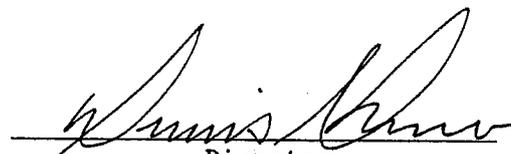
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

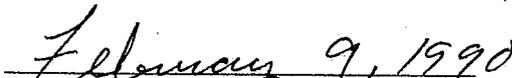
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

LAND APPLICATION PERMIT

PERMIT NO.: 89-515
SEE SPECIAL CONDITIONS

Amoco Beaver Creek Plant
(Name of Facility)

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

Amoco Production Company

P.O. Box 1400

Riverton, WY 82501

to land apply 3 cubic yards of amine stained gravel. The application site is located in Section 10, T33N, R96W in the county of Fremont in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable 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 allow 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.

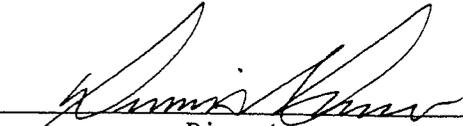
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the application site at the above location, for the purpose of compliance with the provisions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

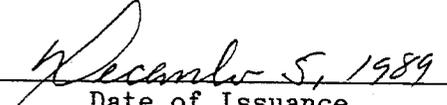
Nothing in this permit shall be construed to preclude the constitution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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 infringements of federal, state or local laws or regulations.

AUTHORIZED BY:


Administrator
for Water Quality Division


Director
Dept. of Environmental Quality


Date of Issuance

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

CONDITIONS ON PERMIT

1. Applications shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. Gravel application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainage, irrigation canals, lakes and reservoirs.
3. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Steve Gerber 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.
4. Gravel applied to a road will be mechanically incorporated into the road bed as it is applied.

SG/anc

R.F.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 89-516
 Conditions on Permit

Bridger Valley Electric Association, Inc.
 (Name of Facility)

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

Bridger Valley Electric Association

P.O. Box 399

Mountain View, WY 82939

to install groundwater monitoring wells according to the procedures and conditions of the application No. 89-516. The facility is located in NW $\frac{1}{4}$, NW $\frac{1}{4}$, Section 1, T15N, R115W in the County of Unita, 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 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.

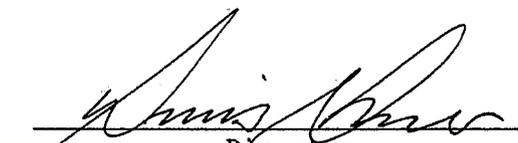
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

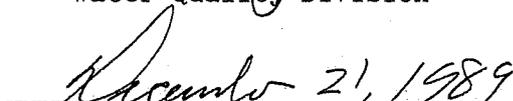
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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


Date of Issuance

This permit does not supersede 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 89-516. Additional wells meeting the requirements of the application 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 shall be implemented when the wells are constructed, installed and developed:
 - 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; Factory slotted casing is recommended for the perforated interval;
 - 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. 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. A seal of bentonite or bentonite grout is required from the surface to at least one 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. 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 issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.

Permit to Construct
Bridger Valley Electric Assoc., Inc.
89-516

10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for BETX AND TPH.

If free product is found the above analysis will not be required, but the thickness of product shall be measured.

The results of these analyses shall be submitted to the Lander office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

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.

BL/anc

PERMIT TO CONSTRUCT

PERMIT NO. 89-517
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

VICKERS STATION #2726

This permit hereby authorizes the applicant:

Total Petroleum
David Seagraves
7000 E. 47th Avenue Drive, Suite 100
Denver, CO 80216

to construct, install or modify vapor detection wells according to the procedures and conditions of the application number 89-517. The facility is located in Section 34, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of one (1) year (5 years maximum) from the date of issuance of this permit.

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

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

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

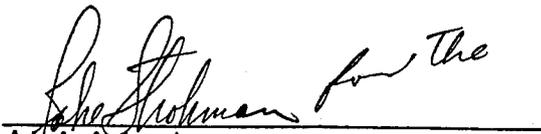
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

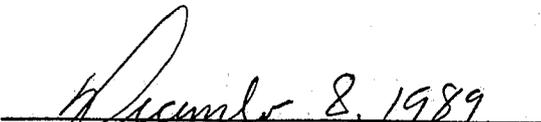
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

Special Conditions for Permit to Construct 89-517

1. The vapor detection wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 89-517. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;

- b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - d. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - e. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap.
6. Automatic vapor detection equipment specifications shall be provided to the department for review prior to installation.
 7. Keys for the locked vapor detection wells shall be kept on site at all times.
 8. Background vapor concentrations shall be monitored for a minimum of one week prior to introduction of fuel into the underground storage tanks. Background vapor concentrations shall be reported to the Department of Environmental Quality (DEQ) within 15 days of recording.
 9. If vapor concentrations are detected at any time, the DEQ/WQD shall be notified within 24 hours.
 10. The measurement of vapors by the monitoring device is not rendered inoperative by the groundwater, rainfall, or soil moisture or other unknown interferences so that a release could go undetected for more than 30 days.
 11. The level of background contamination in the excavation zone will not interfere with the method used to detect releases from the tank.
 12. The vapor monitors are designed and operated to detect any significant increase in concentration above background of the regulated substance stored.
 13. Monitoring wells are clearly marked and secured to avoid unauthorized access and tampering.

CWP/jn

ACS-719 & Board



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

210 Lincoln Street • Lander, Wyoming 82520

Air Quality Division
(307) 332-3144

Land Quality Division
(307) 332-3047

Solid Waste Management Program
(307) 332-3144

Water Quality Division
(307) 332-3144

February 28, 1990

Data Environmental Consultants
ATTN: Joby Adams
2637 Midpoint Drive, Suite F
Ft. Collins, CO 80525

ARCHIVED

RE: Lynn's Quick Stop
Powell, WY 89-518R

Dear Mr. Adams:

This office has completed its review of the as-built plans for the groundwater recovery and treatment system installed at Lynn's Quick Stop in Powell. Since the system as installed appears to meet the intent of our requirements, the facility is authorized by this letter. A "permit to construct" can't be issued since the system is already constructed.

Authorization is granted with the following special conditions:

1. Provide the Department of Environmental Quality, Water Quality Division with a report that details the drilling logs.
2. The results of any analyses conducted on soil or water removed from this recovery system during the lifetime of the facility shall be provided to the Water Quality Division as soon as they are available.
3. The permittee shall operate the recovery system continuously unless Department of Environmental Quality, Water Quality Division allows other operational plans. The division shall be notified immediately in the event that the hydrocarbon recovery system is not operational for more than 24 hours.
4. By May 1, 1990, an approved Operation and Maintenance Manual shall be provided to the division and to the operator. The O & M Manual shall contain, at a minimum, a schematic, operations guide, maintenance schedule, trouble shooting guide, discharge requirements and limitations, Department of Environmental Quality contact, provisions in the event of a spill, methods for handling and disposing of hydrocarbon product and contaminated water in a proper manner, and safety requirements.

89-518R

February 28, 1990

Page 2

5. A status report shall be provided to the division on a monthly basis. The report shall include at a minimum, volumes pumped of water and hydrocarbon product, downtime and dates, effectiveness of the recovery system, monitoring data for all monitor wells and the recovery well current pumping rate and radius of influence. The influent to any treatment system and the discharge to the sewer system will be sampled for BETX monthly. The entire system will be inspected and maintained at least monthly.
6. Maps detailing the static water levels and product thickness in the area will be submitted in the monthly report. The wells shall be sampled quarterly for benzene, ethylbenzene, toluene and xylene (BETX) and product layers. If product layers exist, samples need not be taken for beta or TPH. All reports are due within 30 days of the end of each quarter.
7. In the event the system does not operate as planned or effectively recover the gasoline product layer, provisions shall be made for correcting the deficiencies.
8. All contaminated soils, water and hydrocarbon product generated by the installation and operation of this system shall be disposed properly and as determined by the Department to be appropriate.

Thank you for your cooperation regarding this authorization. I look forward to working with you and Mr. Elwood in seeing the cleanup of this site through completion.

Sincerely,



Jeff Hermansky, P. E.
Water Quality Evaluator

JH/jyi

xc: Lynn Elwood
Jake Strohmman, DEQ/WQD, Cheyenne
file (2)

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 89-519
Conditions on Permit

South Lincoln County Road and Bridge Shop
(Name of Facility)

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

Andy Kasehagen, Lincoln County Planner

P.O. Box 468

Kemmerer, WY 83101

to install a series of test boring and monitor wells for subsurface investigation according to the procedures and conditions of the application No. 89-519. The facility is located in SW $\frac{1}{4}$, SW $\frac{1}{2}$ Section 24 T21N R116W in the County of Lincoln, 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 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.

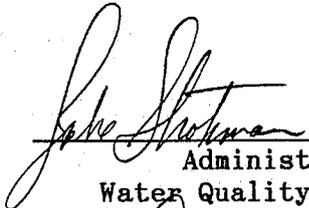
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

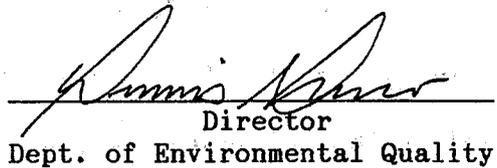
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

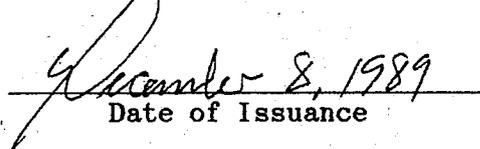
AUTHORIZED BY:

 *for the*

Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

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 89-519. Additional wells meeting the requirements of the application 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 shall be implemented when the wells are constructed, installed and developed:
 - 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; Factory slotted casing is recommended for the perforated interval;
 - 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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - h. A seal of bentonite or bentonite grout is required from the surface to at least one foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - i. 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 issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.

10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for BETX AND TPH.

The results of these analyses shall be submitted to the Lander office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

If free product is found the above analysis will not be required, but the thickness of product shall be measured.

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.



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

March 16, 1990

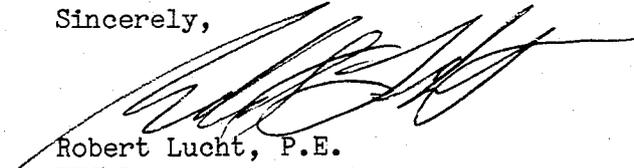
Reed Smith
Amoco Production Company
P.O. Box 829
Evanston, Wyoming 82930

RE: Amoco Whitney Canyon Injection Wells
Permit UIC 89-520, class I
Uinta County, Wyoming

Dear Mr. Smith:

The enclosed permit completely replaces the existing permits 82-198, 84-340, and 84-491 which cover these two injection wells. As of the date on this permit, reporting requirements, analytical procedures and mechanical integrity tests are all governed by the new permit. The public comment period ended yesterday on these wells, this department received no comments from either the Oil and Gas Conservation Commission, the State Engineer, EPA Region VIII or any member of the public on these wells.

Sincerely,



Robert Lucht, P.E.
UIC Program Supervisor

RL/mad

cc: Jake Strohmman

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

() New

(X) Modified

Permit Number:

89-520

REF: 82-198

84-340

84-491

UIC CLASS 1-I

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

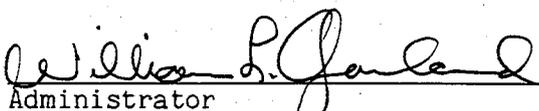
Amoco Production Company
P. O. Box 829
Evanston, Wyoming 82930

is authorized to operate

the Whitney Canyon Gas Plant, Disposal Wells #1 and #2 located respectively in the NW1/4 SE1/4 Section 18, T17N, R119W and in the SE1/4 NE1/4 Section 20, T17N, R119W, both in Uinta County for the subsurface disposal of industrial wastes

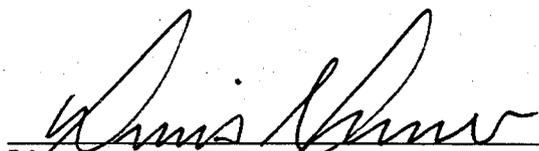
according to procedures and conditions of the application 89-520 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.



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

March 19, 1990
Date



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

March 19, 1990
Date

A. Discharge (Injection) Zone and Area of Review

Injection is authorized into the Nugget Formation through perforations at 6,178 through 6,570 feet in Well #1 and through perforations at 11,926 through 12,728 in Well #2. Injection into any other interval is prohibited, unless following a request by the permittee, written approval is granted by the Administrator authorizing injection through additional perforations within the Nugget Formation.

The Area of Review has been calculated by the Department and includes all lands within the following legal description:

TABLE 1: AREA OF REVIEW INCLUDING BOTH WELLS

Township 17 North, Range 119 West, 6th P.M.

Section 17: W1/2SW1/4, SW1/4NW1/4
Section 18: SE1/4, S1/2NE1/4
Section 20: NE1/4, N1/2SE1/4
Section 21: W1/2NW1/4

The above Area of Review is a fixed Area of Review under Chapter IX of the Water Quality Division Rules and Regulations. Calculations of the radius of fill up and the area of endangering influence both show radii smaller than the minimum required 1/4 mile.

B. Groundwater Classification

The water in the Nugget Formation is class VI water under Chapter VIII of the Water Quality Division Rules and Regulations because:

1. It contains in excess of 29,000 mg/l in Total Dissolved Solids.
2. It is located at such a depth as to make its development economically and technically impractical as a water source.
3. The Nugget Formation is likely to contain hydrogen sulfide gas at levels high enough to make its use impossible.
4. The Nugget Formation has been used for disposal of industrial waste since 1982.

C. Authorized Operations

The permittee is authorized to inject into either of the two wells covered under this permit industrial wastes consisting of waste from the raw water treatment plant, boiler blowdown, condensate wash water, Diethanolamine (DEA) and Triethylene Glycol (TEG) solutions, and produced water from oil and gas production. The Standard Industrial Classification code for this waste is SIC 13. Waste water from the Whitney Canyon Groundwater Remediation System and produced water and plant wastewater from the Painter Canyon NGL/NRU plant are also authorized for injection.

The total amount of all classes of waste which may be disposed of is 2880 barrels per day in Well #1 and 6400 barrels per day in Well #2 and a total of 6400 barrels per day in both wells together. There is no limit on the individual streams which make up the total of 6400 barrels per day, so long as that total is not exceeded.

The wastewater stream will include:

1. Raw water treatment waste from regeneration of softeners and dealkalizers containing over 3000 pounds per day of sodium chloride;
2. Boiler blowdown with a TDS of approximately 1500;
3. Condensate wash water;
4. Diethanolamine (DEA) is used to sweeten the gas stream incoming to the plant. DEA will become a part of the injection stream at a rate of approximately 10 gallons per day.
5. Triethylene Glycol (TEG) is used for gas dehydration and some will carry over into the injection stream. Approximately 1 gallon per day of TEG will be injected.
6. Produced water from the Whitney Canyon Field.
7. Both produced water and plant wastewater from the Painter Canyon NGL/NRU plant.
8. Waste water from the Whitney Canyon groundwater restoration system.
9. The permittee is authorized to dispose of other industrial wastes in either or both of these wells provided that these wastes are not hazardous waste under the RCRA definition contained in 40 CFR 261. Prior to disposal of other wastes not named in this permit, the permittee shall run the proper analyses to establish that such waste is not characteristic hazardous waste and shall submit those analyses to the Water Quality Division for approval of the disposal. Disposal shall not take place until approval has been granted by the Water Quality Division. Disposal of any hazardous waste in either or both of these wells is a violation of this permit and shall be reported as required by section I.6 of this permit.
10. Nothing in the above paragraphs is intended to preclude the operator from doing controlled acidizing jobs as may be required on these wells from time to time. The permittee need not obtain advance approval to conduct an acidizing job under this paragraph, but shall report these jobs on the first quarterly report following the job.

Analyses of the discharge water over the past years of operation has been reported as follows:

TABLE 2: REPORTED QUALITY OF THE EFFLUENT

PARAMETER	QUARTERLY AVERAGE VALUE IN mg/l		AVERAGE OF ALL SAMPLES
	LOWEST REPORTED	HIGHEST REPORTED	
Silver (Ag)	<.001	1.000	.019
Arsenic (As)	<.001	1.536	.093
Boron (B)	<.150	44.000	9.273
Barium (Ba)	<.100	4.210	.381
Calcium (Ca)	84.000	492.000	356.000
Cadmium (Cd)	<.001	.056	.004
Chloride (Cl)	263.000	14,950.000	5,422.403
Chromium (Cr)	<.001	.120	.025
Copper (Cu)	<.010	.140	.045
Diethanolamine (DEA)	<.010	130.500	23.871
Fluoride (F)	1.010	8.450	2.030
Iron (Fe)	.240	58.500	2.716
Hydrogen Sulfide (H2S)	.150	3,240.000	368.476
Manganese (Mn)	.070	1.450	.285
Sodium (Na)	41.500	10,708.000	3,241.460
Ammonia as N	<.010	380.000	40.592
Nickel (Ni)	<.010	.700	.037
Nitrate as N	<.100	13.000	.753
Nitrite as N	<.010	.670	.240
Hydroxide (OH)	<.010	336.000	7.121
Lead (Pb)	<.001	.650	.033
Selenium (Se)	<.001	.021	<.001
Sulfate (SO4)	<10.000	2,760.000	417.016
TDS	284.000	35,000.000	11, 95.338
Triethylene Glycol (TEG)	.350	2,327.000	98.538

The above table is for information only and does not set any limitation on the quality of the effluent to be injected. Table 3, found in Section G of this permit sets limitations on the quality of the effluent.

The maximum injection pressure in Well #1 is limited to 1,900 psi as measured at the wellhead. The maximum injection pressure in Well #2 is limited to 3,800 psi as measured at the wellhead. Exceedance of either of these pressures is a violation of this permit and shall be reported as required in section I.6 of this permit.

The permittee shall apply a pressure of approximately 400 psig to the annulus between the tubing and the long string casing of both wells and hold this pressure continuously during the life of this permit. The annulus shall be equipped with either high/low pressure kill switches or alarms that will signal the operator if the annulus pressure increases above a set point or decreases below a set point. The set points shall be approved initially by the Water Quality Division and may be changed under this permit with prior Water Quality Division approval.

If at any time, the maximum injection pressure or volume is exceeded or any of the parameters listed on Table 3 below are exceeded, the permittee shall report this occurrence in conformity to section I.6 of this permit. Exceedance of any of these controls is a violation of this permit.

D. Proper Operation and Maintenance

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

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

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

E. Entry and Inspection

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

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

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.

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

The Amoco Whitney Canyon Gas Plant Water Wells #1 (State Engineer Permit U.W. 51252), in the NE1/4 NE1/4 of Section 18, T17N, R119W; and #2 (State Engineer Permit U.W. 51253), in the SE1/4 NE1/4 of Section 18, T17N, R119W shall be sampled twice a year for the following list of parameters:

Arsenic	Boron
Diethanolamine (DEA)	pH
Triethylene Glycol	

The results of the above analyses shall be reported on the quarterly report covering the period when the analyses were taken.

G. Requirements for Monitoring the Discharge

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

The injection volume shall be monitored continuously and recorded on chart recorders such that the volume being injected in each well may be determined. The total injection volume shall be reported for each month of operation on each quarterly report along with accumulated volume injected since the start of injection.

The injection pressure shall be monitored continuously and recorded on a chart recorder located on each wellhead. The annulus pressure shall also be monitored continuously and recorded on a chart recorder located on each wellhead.

The injection stream shall be sampled at least once a quarter and analyzed for the following list of parameters:

Arsenic	Boron
Diethanolamine (DEA)	pH
Triethylene Glycol	Hydrogen Sulfide

The permittee is limited to certain levels of chemicals in the injection stream. The following table shows a list of the maximum concentrations allowable in the injection stream. Exceedance of any of these parameters is a violation of this permit and shall be reported as required in section I.6 of this permit.

TABLE 3: QUALITY LIMITATIONS ON THE EFFLUENT

PARAMETER	MAXIMUM ALLOWABLE CONCENTRATION AS A QUARTERLY AVERAGE
Arsenic	5.0 mg/l
Boron	75.0 mg/l
Diethanolamine (DEA)	200.0 mg/l
pH	GREATER THAN 2.0 s.u
pH	LESS THAN 11.0 s.u
Triethylene Glycol	200.0 mg/l

The Water Quality Division may require quarterly sampling for Benzene, Ethylbenzene, Toluene and Xylenes during the life of this permit.

The permittee has been analyzing samples on a monthly basis and averaging these results on a quarterly report. The permittee is free to continue this sampling protocol or the permittee may elect to sample on a monthly basis and composite the samples for analysis once a quarter. In either case, an approved sampling and analytical procedure must be adhered to and holding times shall be met for the procedure being used.

The permittee shall propose the exact methods to be used to analyze there parameter by EPA method number or other equivalent specification number. The Water Quality Division shall review and approve these methods for analyses prior to monitoring the discharge. Once approved, the method of analyses shall not be changed without prior approval by the Water Quality Division.

REPORTING

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

1. The maximum and minimum daily injection pressure (not an average pressure but an instantaneous pressure) and the maximum and minimum daily injection volume for each month in during the quarter, and the dates these maximums and minimums were reached. The accumulated total volume injected for each month and the accumulated total volume injected to date.
2. The maximum and minimum daily annulus pressure for each month in the quarter.
3. A complete listing of industrial wastes disposed of that originated at any other location whether owned by Amoco or not.

4. Any non-compliance, MIT, or significant event during the quarter. If quarterly reports show a record of being submitted late, the Administrator may substitute more stringent monthly reporting requirements.
5. The average maximum injection pressure for each month of the quarter calculated by averaging the maximum pressures for each day.

The annual report required under section I-11 of this permit shall consist of the following:

1. The fourth quarterly report along with the summary of the year's operation. The annual report shall include totals for all volumes injected for the year.
2. The chemical parameters listed under Sections F and G of this permit for monitoring shall be graphed over time. These graphs shall cover the previous 5 years of operation or all available data if the parameter has not been analyzed for 5 years or the well has not been in service for 5 years.
3. The injection pressure and volume shall be graphed over time. These graphs shall show the monthly average maximum pressures, maximum pressures, and total monthly volumes. These graphs shall cover the previous 5 years of operation or all available data if the parameter has not been monitored for 5 years or the well has not been in service for 5 years.

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. Annual reports shall be submitted to the administrator within 30 days following the anniversary date of the permit.
11. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

J. Permit Actions

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

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

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

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

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

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

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

K. Mechanical Integrity

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

At a minimum of once every five (5) years and more frequently if required by the Water Quality Division, the permittee shall demonstrate the continued sound and unimpaired condition of all components of the injection well. An injection well has mechanical integrity if there is no significant leak in the casing, tubing and packer; and if there is no significant movement of injected fluids through vertical channels adjacent to the well bore.

The absence of leaks will be determined by holding 2,500 psig on the annulus for 15 minutes.

At a minimum of once every five (5) years and more frequently if required by the Water Quality Division, the permittee shall prove the absence of fluid movement through vertical channels. The absence of fluid movement through vertical channels shall be determined by running a radioactive tracer log and a temperature log. These two logs together are often referred to as an injection profile. The permittee shall use these methods to determine the absence of fluid movement or an alternative method with prior approval of the Water Quality Division.

The latest mechanical integrity tests were run on Well #1 on December 18, 1986. The latest mechanical integrity tests were run on Well #2 on April 25, 1985. The next required tests are due on or before April 25, 1990 for well #2.

Well #1 is completed to the following specifications:

PBTD: 6,717

CASING: 9-5/8" 36# K-55 ST&C set at 1,517 feet
7" 23# L-80, SS-95, K-55 set at 6,717 feet

TUBING: 3-1/2" 9.2# L-80 set at 6,120 feet on a Permanent Baker Model FB-1 wireline set at 6,110 feet by explosive charge.

CEMENTING: Top of cement at 3,800 feet on the 7"

Well #2 is completed to the following specifications:

TD: 16,434

PBTD: 13,055

CASING: 30" conductor pipe set at 101 feet
13-3/8" 72# S-80 ST&C set at 2,507 feet
9-5/8" 47 and 53.5# SS-95, LT&C set at 6,873 feet
9-5/8" 62.8 # S-95 & S-105 LT&C and Butt 6,873 feet to 10,195 feet
7" liner 32# SS-95 LT&C 9,753 to 13,755 feet
5" liner 18# L-80 FL-4S 13,055 to 16,434 feet

TUBING: 3-1/2" set on permanent packer at 11,800 feet

Resetting any packer more than 100 feet from the above locations in the well is a violation of this permit unless written approval is obtained from the Water Quality Division prior to such workover.

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:

1. The open perforations will be squeezed through a cement retainer or packer. Squeeze cement volume shall not be less than the casing volume between the cement retainer and the bottom perforation plus 50 sacks.
2. A minimum of 5 sacks of cement will be placed on top of the cement retainer or packer.

3. 20 sack cement plugs will be set approximately every 1000 to 1500 foot up the hole with one of these plugs being set over each casing shoe and liner top and one at the surface.
4. The production casing will be cut off and all surface annuli will be sealed with cement.
5. P & A marker will be set and the location reclaimed.

In no case shall the abandonment procedure used be less than that required by the Wyoming Oil and Gas Conservation Commission for abandoned gas wells in the Whitney Canyon Field at the time of abandonment.

M. Duties of the Permittee

It is a duty of the permittee to:

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

N. Financial Responsibility

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

Amoco Production Company (USA) has submitted the required proof of financial responsibility in the form of three years annual reports for the corporations showing that it has sufficient resources to plug and abandon this well.

O. Special Measures the Director Finds Necessary:

At a minimum of once a year or more frequently if required by the Administrator, the permittee shall shut each well in for a long enough period of time to observe a valid pressure fall off curve. This test shall be considered complete when the injection pressure recorder shows that the pressure curve has become asymptotic to a horizontal line or has reached atmospheric pressure whichever occurs first. It is not the intent of this section to require a down hole pressure measurement device, but the Administrator may require this type of device if there is any abnormal

pressure volume relationship recorded during the year.

No industrial waste from any other site shall be stored for more than 30 days at the Whitney Canyon Plant pending acceptance for injection into this system.

The permittee shall erect a sign in the building housing the injection plant and inside each well house notifying employees of certain key permit requirements. This sign shall have the following wording:

"THESE INJECTION WELLS ARE COVERED BY AN UNDERGROUND INJECTION CONTROL PERMIT ISSUED BY THE WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY, WATER QUALITY DIVISION. INJECTION PRESSURE MAY NOT EXCEED 1,900 PSI IN WELL #1 OR 3,800 PSI IN WELL #2. INJECTION VOLUME MAY NOT EXCEED 2,880 BARRELS PER DAY IN WELL #1 OR 6,400 BARRELS PER DAY IN BOTH WELLS TOGETHER. THE ANNULUS PRESSURE SHALL NOT EXCEED 1000 PSI IN EITHER WELL AND SHALL BE MAINTAINED AT A LEVEL OF AT LEAST 100 PSI IN BOTH WELLS. IF ANY OF THESE CONDITIONS EXIST NOTIFY THE PLANT MANAGER IMMEDIATELY. THESE ARE REPORTABLE EVENTS AND SHOULD ALSO BE REPORTED TO DEQ/WQD AT 777-7095."

The wording on the sign shall be a minimum of 1" high and the sign itself shall be constructed in a professional manner on steel or fiberglass sheet. This sign shall be maintained in good condition at all times.

By issuance of this permit, the Water Quality Division is canceling permits 84-340 and 84-491. This permit takes the place of these two previous permits.

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.

/jt

R.F.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

PERMIT NO. 89-521
SEE SPECIAL CONDITIONS

WYOMING STATE HIGHWAY DEPARTMENT
(Name of Facility)

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

Wyoming Highway Department
P. O. Box 1708
Cheyenne, Wyoming 82002-9019

to construct, install or modify hydrocarbon vapor detection well system according to the procedures and conditions of the application No. 89-521. The facility is located statewide, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or 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, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

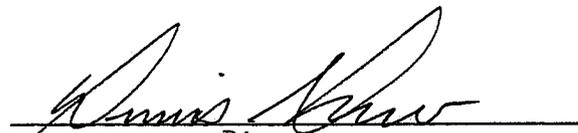
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

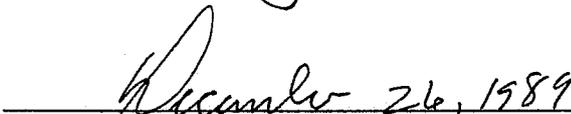
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

SPECIAL CONDITIONS

1. The vapor detection wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit To Construct Application Number 89-521. 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 62(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 (fifteen) days after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.
4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the Division. The wells shall be clearly numbered.
5. In addition to the well construction information submitted with the permit application, the following items relating to well construction must be addressed when the wells are installed:
 - a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;
 - b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;
 - c. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - d. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;
 - e. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap;
 - f. A detailed map of the locations of all wells in reference to the tanks, lines and other UST related facilities.
 - g. Schedule 40 PVC pipe shall be installed with required factory slotting intervals of 0.020", opposed to 0.008 " as proposed.
 - h. Installation include 1/4"-3/8" vent hole at top of unslotted PVC pipe, just below adapter.
6. Automatic vapor detection equipment specifications shall be provided to the Department for review prior to installation.
7. Keys for the locked vapor detection wells shall be kept on site at all times.
8. Background vapor concentrations shall be monitored for a minimum of one week prior to introduction of fuel into the underground storage tanks. Within 15 days of this recording, background vapor concentrations, detailed location map (see Condition #5(f) above), and a statement certifying the installation of these wells shall be reported to the Department of Environmental Quality (DEQ).

9. If vapor concentrations are detected at any time, the DEQ/WQD shall be notified within 24 hours of detection and documentation provided within 15 days.
10. The vapor detection wells shall be placed no more than 40 feet apart along all lines.
11. Perforations in the vapor wells located within the line trenches shall extend upward to the level of the lines.
12. The materials used as backfill are sufficiently porous (e.g., gravel, sand, crushed rock) to readily allow diffusion of vapors from releases into the excavation area.
13. The stored regulated substance, or a tracer compound placed in the tank system, is sufficiently volatile (e.g., gasoline) to result in a vapor level that is detectable by the monitoring devices located in the excavation zone in the event of a release from the tank.
14. The measurement of vapors by the monitoring device is not rendered inoperative by the groundwater, rainfall, or soil moisture or other known interferences so that a release could go undetected for more than 30 days.
15. The level of background contamination in the excavation zone will not interfere with the method used to detect releases from the tank.
16. The vapor monitors are designed and operated to detect any significant increase in concentration above background of the regulated substance stored in the tank system, a component or components of that substance, or a tracer compound placed in the tank system.
17. In the UST excavation zone, the site is assessed to ensure compliance with the requirements in paragraphs 12 through 15 of this section and to establish the number and positioning of monitoring wells that will detect releases within the excavation zone from any portion of the tank that routinely contains product.
18. Monitoring wells are clearly marked and secured to avoid unauthorized access and tampering.

ELJ:jj

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 89-522RRR
Conditions on Permit

Trails End Ranch WWTP
(Name of Facility)

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

Wild West Associates

P.O. Box 20311

Jackson, WY 83001

to construct gravity collection lines, lift stations, and leachfields for wastewater collection and treatment and install monitor wells for determining groundwater quality according to the procedures and conditions of the application No. 89-522RRR.

The facility is located in Section 15, T39N, R117W in the County of Teton, 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 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.

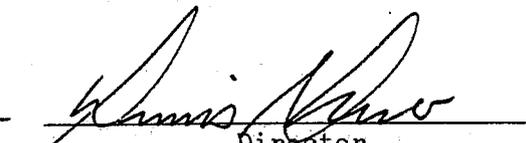
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

April 25, 1990

Date of Issuance

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

Conditions

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 89-522RRR. Additional wells meeting the requirements of the application this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.
3. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days

after a well has been plugged and abandoned, the owner shall file a plugging record with the WQD.

4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.
5. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:
 - 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; Factory slotted casing is recommended for the perforated interval;
 - 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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - h. 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
6. 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.
7. Within 90 days of issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:

- a. A site map showing physical features, well locations and elevations;
 - b. Final location, construction details and logs of all monitoring wells;
 - c. Water level measurements;
 - d. Sample collection procedures;
 - e. Sampling analytical results;
 - f. A potentiometric surface map showing the direction of groundwater movement; and
8. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
 9. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for fecal coliform and all parameters in Table I of Chapter XIII Water Quality Rules and Regulations except for radiological parameters. A second sampling of upgradient wells is required 6 months after initial sampling. These sampling events are necessary to establish background groundwater quality.

The results of these analyses shall be submitted to the Lander office in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.
 10. 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.
 11. Prior to backfilling, leachfield piping must be tested and inspected by the Teton County Sanitarian and/or a DEQ employee. Provide a minimum of 48 hours notification.

SG/anc

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 89-523R

Jim Bridger Power Plant
(Name of Facility)

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

Pacific Power & Light Co.

920 SW 6th Avenue

Portland, OR 97204

to modify a north lake of the existing evaporation pond from cooling tower blowdown to Five Gas Desulfurization Liquor Disposal facility according to the procedures and conditions of the application No. 89-523R. The facility is located in Sec 25, 26, 36, T20N, R101W 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 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.

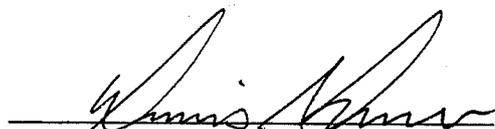
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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



Date of Issuance

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

R.F.

PERMIT TO CONSTRUCT
Conditions

- New
- Renewal
- Modified

Permit No. 89-524

Wilcox-McGuire Sewer Lagoons
(Name of Facility)

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

Elwin McGrew

799 Antelope Drive

Rock Springs, WY 82901

to construct, install, or modify a series of test borings and monitor wells for subsurface investigation facility according to the procedures and conditions of the application No. 89-524. The facility is located in SE 1/4, SE 1/4, Section 8, T19N, R105W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

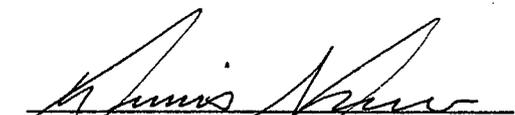
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

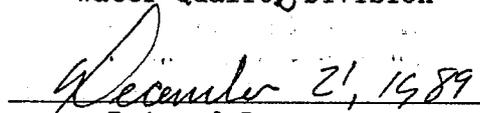
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

This permit does not supersede 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 89-524. Additional wells meeting the requirements of the application 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 shall be implemented when the wells are constructed, installed and developed:
 - 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; Factory slotted casing is recommended for the perforated interval;
 - 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. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;
 - g. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
 - h. A seal of bentonite or bentonite grout is required from the surface to at least two feet above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and
 - i. 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 issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.

9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the parameters listed below:
Ammonia, Nitrate (NO₃ + NO₂ as N), Nitrite, pH, Fecal Coliform

The results of these analyses shall be submitted to the Lander office by the last day of the month following the end of each quarter.
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

R.F.

PERMIT TO CONSTRUCT

[] New

Permit No. 89-525R

[] Renewal

[X] Modified

Hair It Is Septic System
(Name of Facility)

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

Phyllis & James Robbins

P.O. Box 49

Farson, WY 82932

to construct a small domestic septic system and 4" idiameter collection line according to the procedures and conditions of the application No. 89-525R.

The facility is located in SE 1/4, NW 1/4, Section 36, T25N, R106W in the County of Sweetwater, 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 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.

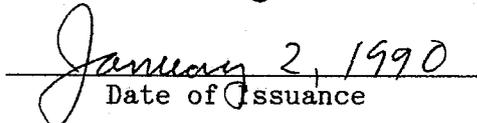
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 89-526
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Former Chevron Service Station
1059 North 3rd Street
Laramie, Wyoming

This permit hereby authorizes the applicant:

Chevron USA, Inc.
P O Box 220
Seattle, WA 98111

to construct, install or modify product recovery system according to the procedures and conditions of the application number 89-526. The facility is located in Section 28, T16N, R73W, SW $\frac{1}{4}$ in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

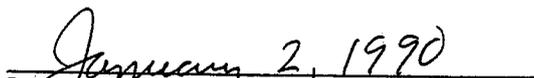
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

Special Conditions for Permit 89-526

1. 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. Monitoring wells shall be installed within the effective radius of the recovery system to confirm all free product from this site is being recovered by the recovery system. The monitoring wells shall be located to the north, south, and east of the recovery well. The wells shall be constructed according to Permit No. 89-136. If free product is located in the additional wells, an extent of contamination investigation shall be conducted to determine the extent of the free product plume, and additional product recovery system(s) will be required to recover the free product which cannot be shown to be affected by the present recovery system.
2. The recovery rate of approximately 260 gpd shall be maintained, effecting a three feet drawdown of the groundwater table.
3. The Water Quality Division shall be notified when the recovery system has been put into operation.
4. The Water Quality Division shall be given monthly reports of the following:
 - a. Recovery rate
 - b. Quantity of product recovered to date
 - c. Analysis for TPH and BTEX on recovered groundwater discharged to the sanitary sewer

- d. Analysis for TPH and BTEX on groundwater in wells sampled bi-monthly (to be given in every other report)
 - e. Equipment maintenance
 - f. LEL monitoring automatic shutoff events
5. The product recovery system shall be operated continuously. The Water Quality Division shall be notified immediately upon discovery of shutdown of the recovery system for more than 12 hours.

DJM/jt

xc: Harold Hollingsworth, Chen-Northern, Inc., 96 South Zuni, Denver, CO 80223

8

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 89-527

Amoco Whitney Canyon Septic System
(Name of Facility)

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

Amoco Production Company

P. O. Box 829

Evanston, WY 82930

to construct, install, or modify a new leach field for domestic waste facility according to the procedures and conditions of the application No. 86-475. The facility is located in SE 1/4, Sec 17, T17N, R119W in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

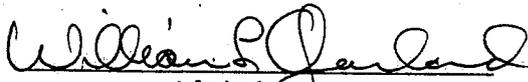
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

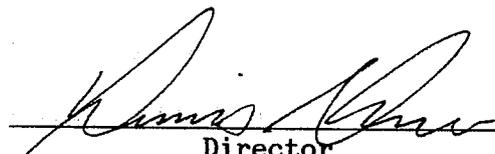
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

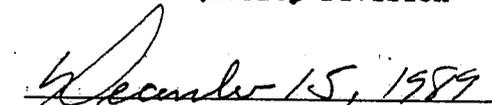
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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


Date of Issuance

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

PERMIT TO CONSTRUCT

PERMIT NO. 89-528

New
Renewal
X Modified

GLENROCK WASTEWATER SYSTEM IMPROVEMENTS

This permit hereby authorizes the applicant:

Town of Glenrock
P O Box 417
Glenrock, Wyoming 82636

to construct, install or modify the wastewater treatment facility by installing sewage grinders at lift stations according to the procedures and conditions of the application number 89-528. The facility is located in Township 34N, Range 75W, Section 33, Township 33N, Range 75W, Section 4, Township 33N, Range 75W, Section 3 in the county of Converse, 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: Southeast 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.

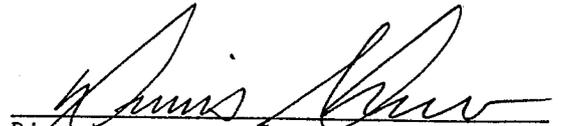
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

January 26, 1990
Date of Issuance

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

SCF/jn

cc: Barry Venn, CEP
355 N. Lincoln Street
Casper, WY 82601

PERMIT TO CONSTRUCT

PERMIT NO. 89-529
SEE SPECIAL CONDITIONS

- New
- Renewal
- Modified

Mountain Cement No. 1

This permit hereby authorizes the applicant:

Mountain Cement Company
P O Box 339
Laramie, WY 82070

to construct, install or modify septic system according to the procedures and conditions of the application number 89-529. The facility is located in Section 17, SE, T15N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of one (1) year (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

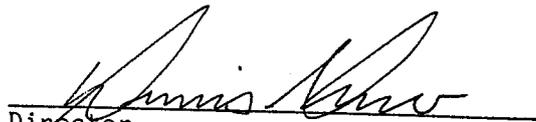
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

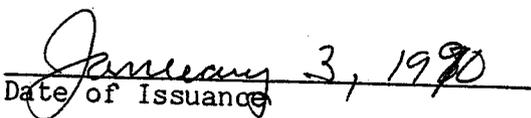
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

SPECIAL CONDITIONS FOR PERMIT 89-529

1. If a clean out is not available, the manhole must be brought to the surface.

SCF/jt

xc: Robert Joel Coffey, Coffey Engineering & Surveying, Inc., 2110 Garfield,
Laramie, WY 82070

R.F.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

PERMIT NO. 89-530
SEE CONDITIONS

DOWNTOWN TIRE
(Name of Facility)

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

Fauth & Summers, Inc.

P. O. Box 90

Sheridan, Wyoming 82801

to construct, install or modify a borehole network according to the procedures and conditions of the application No. 89-530. The facility is located in Section 27, T.56N., R.84W., in the County of Sheridan, in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or 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, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

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

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

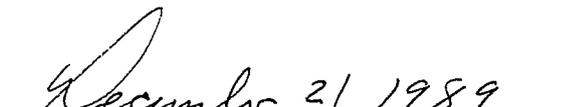
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

CONDITIONS FOR MONITORING WELLS

1. The test holes shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 89-530. Additional holes meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
2. After the test holes 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 hole has been plugged and abandoned, the owner shall file a plugging record with the WQD.

3. 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.
4. The results of any analyses conducted on soil or water removed from these boreholes shall be provided to the Department as soon as they are available.

EJ:jj

xc: Jake Strohman, DEQ/WQD, Cheyenne

RF.

PERMIT TO CONSTRUCT

PERMIT NO. 89-531
SEE SPECIAL CONDITIONS

New
 Renewal
 Modified

SAM TANKSLEY TRUCKING - MONITOR WELLS

This permit hereby authorizes the applicant:

Sam Tanksley Trucking, Inc.
P O Box 1120
Cape Girardeau, MI 63702

to construct, install or modify Monitor Well Facility according to the procedures and conditions of the application number 89-531. The facility is located in Township 21N, Range 87W, Section 15, NW/NW in the county of Carbon, 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: Southeast 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.

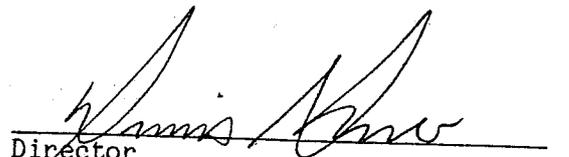
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

May 17, 1990

Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-531

1. DEQ/WQD personnel shall be given at least 24 hours notice prior to the installation of the monitor wells and sample collection. Additional wells installed at the site must have prior approval from the DEQ/WQD.
2. 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. All wells must have a unique number.
3. Within 60 days of issuance of this permit, a report on the subsurface investigation must be submitted to the DEQ/WQD. The report must include the following items:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. A potentiometric surface map showing the direction of groundwater movement;
 - d. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - e. A description of the subsurface geologic conditions;

Conditions to Permit 89-531 (continued)

- f. Construction details and logs of all monitor wells;
 - g. Sample collection procedures, QA/QC information and analytical methods;
 - h. Static water level, product thickness and analytical results; and
 - i. Interpretation of data and conclusions including recommended remedial actions.
4. After the monitoring wells have fulfilled their useful purpose, and upon approval by DEQ/WQD, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Wyoming Water Quality Rules and Regulations. A plugging record must be filed with the DEQ/WQD within 15 days of abandonment.

SCF/jt

xc: Tom Pilch, Chen-Northern, P O Box 2599, Casper, WY 82602

89-532

Sullivan
-HACKETT

Collins Heights Off-Site Sewer Improvements

12/11/89	UR	2/11/89
4/19/90	RS	
5/8/90	AW	

This permit was issued by Hallett
under home rule - WOD reviewed plans
only - for Hallett



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

April 19, 1990

Tom Barker
Centennial Engineering and Research, Inc.
805 Four J Road
Gillette, WY 82716

RE: Federal Sewage Works Grant C560258-94; Review of Collins Heights Plans and Specifications, WY 89-532

Dear Tom:

As we discussed by phone on April 19, 1990, I have completed my review of the Collins Heights Plans and Specifications. These comments are reiterated below for the record.

Specifications: On-Site and Off-Site

1. The bid advertisement should have the required statement that the bidders are required to comply with the President's Executive Order No.'s 11246 as amended, 11458 and 11625.
2. The bid form should include the agreement to comply with 40 CFR Part 8 and 41 CFR parts 60-1 and 60-4. A copy of these statements are enclosed.
3. Treatment of wastewater is required during construction including reconnection of service lines if disconnected for any extended period.
4. The latest wage determination, WY 90-1, should be inserted in the specifications.
5. The minority and female workforce goals should be inserted on page 19 and Attachment A. The workforce goals are: Minority 7.5% Female 6.9%.
6. On page 41 or 42 depending on the set of specifications, the Interim Guidelines section of EPA required documents should be labeled Section N. Currently, there are two sections labeled Section M.

Off-Site Plans:

1. An air release should be provided in the force main near station 20+50. Water Quality Rules require an air release at the high point whenever the pipe elevation falls below the invert elevation.

2. A vent should be installed at manhole #1 (Sheet 3). The force main should be extended through the manhole into the gravity line.
3. On sheet 2 at the break of the line the continuation shows different elevations than the original line on the profile.
4. On sheet 5, an arrow is drawn to show reconnection of 4" service line to 12" sewer and this line is pointing to the water line instead of the sewer.
5. A dry well high water alarm is required. Also, page 145 of specifications refers to a telemetry cabinet on the plans but this is not presented.

On-Site Plans:

1. The section of 8" line from manhole T-1 to manhole CR-2 will not be eligible as interceptor.

General Eligibility:

1. The 6" force main may only be eligible as a 4" force main unless the existing flows justify this sizing. This is similar for the 12" gravity line. A smaller line may be eligible depending on the existing flows.
2. The lift station will only be eligible based on the existing flow that will be connected at completion. The exact percentage of eligibility will be determined after bid opening.

Hopefully, these comments will be of assistance in your completion of the plans. Additional comments may be forthcoming from Occupational Health and Safety and also from Fire Prevention and Electrical Safety. Please submit two copies of the final plans and specifications when they are completed. If you have any questions or comments, please feel free to contact me at 777-7097.

Sincerely,



Shawn Sullivan
Engineering Specialist
Water Quality Division

SS/jn

Enclosures

cc: Grant File

Elsewhere in the Region, goals are set by OFCCP Area Offices based on Standard Metropolitan Statistical data and Economic Area data. Contact the local OFCCP Area Office for the minority percentage to be placed in your "Notice of Requirement". Denver Area Office address is listed below.

All crafts - Female Goals

All areas in the Nation have a progressive goal:

After April 1, 1980, it is 6.8%

(c) For Assistance, contact DOL/OFCCP:

From Region Office,

DOL/OFCCP, Denver Regional Office
1412 Federal Office Building
1961 Stout Street
Denver, Colorado 80294 (303/337-5011)

From Denver Area Office,

DOL/OFCCP, Denver Area Office
Building 67, Room 880
Denver Federal Center
Denver, Colorado 80225 (303)/234-2154)

From Salt Lake City Office,

Administration Building
1745 West 1700 South, Room 2033
Salt Lake City, Utah 84104
(801/524-4470)

(3) Each bid form should include a statement in the bid form itself above the place for the bidder's signature as follows:

~~THE UNDERSIGNED BIDDER HEREBY EXPRESSLY ACKNOWLEDGES HIS UNDERSTANDING OF AND HIS AGREEMENT TO COMPLY DURING THE PERFORMANCE OF ANY WORK UNDER ANY CONTRACT RESULTING FROM THIS BID WITH ALL EQUAL OPPORTUNITY OBLIGATIONS AS SET FORTH IN 40 CFR PART 8 and 41 CFR PARTS 60-1 AND 60-4.~~

(4) To include in the specifications the following attachments to this instruction sheet:

(A) NONDISCRIMINATION IN EMPLOYMENT (Instruction for Bidders)

(1) NOTICE OF REQUIREMENTS

(2) EQUAL OPPORTUNITY CLAUSE AND EEO CONSTRUCTION CONTRACT SPECIFICATIONS

ENVIRONMENTAL PROTECTION AGENCY, REGION VIII
INSTRUCTIONS REGARDING FEDERAL REQUIREMENTS
TO BE INCLUDED IN CONSTRUCTION SPECIFICATIONS
FOR GRANTS AWARDED AFTER MAY 12, 1982

Applicants receiving Federal financial assistance for a project either by a grant, contract, loan, insurance, or guarantee thereof are responsible for taking the following specific action on all contracts in which the Federal Government is participating:

- (1) To include in the bid advertisement a statement that bidders are required to comply with 40 CFR 33.240 and Executive Order 12138. The following language should be used:

~~BIDDERS ON THIS WORK WILL BE REQUIRED TO COMPLY WITH TITLE 40 CFR 33.240 AND EXECUTIVE ORDER 12138. THE REQUIREMENTS FOR BIDDERS AND CONTRACTORS, UNDER THIS REGULATION, AND EXECUTIVE ORDER CONCERNS UTILIZATION OF MINORITY BUSINESS ENTERPRISES (MBE), WOMEN'S BUSINESS ENTERPRISES (WBE), SMALL BUSINESSES (SB), AND LABOR SURPLUS AREA BUSINESSES (LSAB) AND ARE EXPLAINED IN THE SPECIFICATIONS.~~

- (2) To include in the advertisement for bids a statement that bidders are required to comply with the President's Executive Order No's. 11246 as amended, 11458 and 11625. The following language should be used:

(a) ~~BIDDERS ON THIS WORK WILL BE REQUIRED TO COMPLY WITH THE PRESIDENT'S EXECUTIVE ORDER NO'S. 11246, AS AMENDED, 11458, 11518 AND 11625. THE REQUIREMENTS FOR BIDDERS AND CONTRACTORS UNDER THESE ORDERS ARE EXPLAINED IN THE SPECIFICATIONS.~~

(b) THE FOLLOWING GOALS AND TIMETABLES FOR MINORITY AND FEMALE UTILIZATION SHALL BE INCLUDED IN ALL FEDERAL AND FEDERALLY ASSISTED CONSTRUCTION CONTRACTS AND SUBCONTRACTS IN EXCESS OF \$10,000. THE GOALS ARE APPLICABLE TO THE CONTRACTOR'S AGGREGATE ON-SITE CONSTRUCTION WORKFORCE, NOT MERELY THAT PART OF THE WORKFORCE THAT IS PERFORMING WORK ON A FEDERAL OR FEDERALLY ASSISTED CONTRACT OR SUBCONTRACT. THE APPROPRIATE GOAL WILL BE INSERTED IN THE BLANK IN (d) OF "NOTICE OF REQUIREMENTS," CONTAINED IN ATTACHMENT A.

GOALS - As excerpted from the April 7, 1978, Federal Register.

All crafts - Minority Goals

State of Colorado: 14% plus, Minority participation per craft.

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

(X) New

Permit Number:

() Modified

UIC 89-533

UIC CLASS 5x13

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

Rock Springs Drill and Grout Project
Department of Environmental Quality, Land Quality Division
Herschler Building 3rd Floor
122 West 25th Street
Cheyenne, WY 82002
ATTN: Stan Barnard 777-7062

is authorized to operate

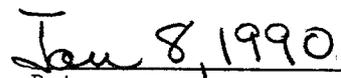
a mine void grouting project

according to procedures and conditions of the application 89-533 and requirements and other conditions of this permit.

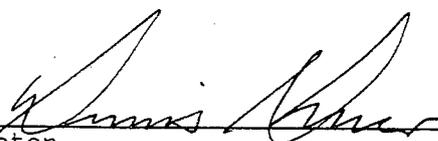
This permit shall become effective on date of issuance.



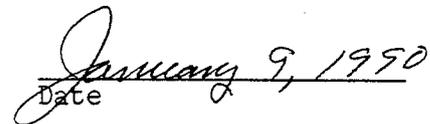
Administrator
Water Quality Division
Herschler Building, 122 W. 25th
Cheyenne, WY 82002
Phone: (307) 777-7781



Date



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



Date

A. Discharge (Injection) Zone and Area of Review

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

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

Section 1: N1/2
Section 2: N1/2

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

Section 25: All
Section 26: All
Section 35: All
Section 36: All

The area of review for this permit application extends 1/4 mile beyond all sides of the project area and is defined by the following legal description:

Township 18 North, Range 104 West, Sixth P.M.

Section 6: W1/2

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

Section 1: All
Section 2: All
Section 3: E1/2

Township 19 North, Range 104 West, Sixth P.M.

Section 19: SW1/4
Section 30: W1/2
Section 31: W1/2

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

Section 22: SE1/4
Section 23: S1/2
Section 24: S1/2
Section 25: All
Section 26: All
Section 27: E1/2
Section 34: E1/2
Section 35: All
Section 36: All

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

B. Groundwater Classification

Information supplied by the applicant indicates that the #7 coal seam is dry.

C. Authorized Operations

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

Food grade propylene glycol may be added to the grout if necessary. Rhodamine dye may be injected along with the grout or separately as required to determine migration pathways between water withdrawal wells and injection wells. Celbex 653 and Mico 88 Sulfonated Naphthalene may be used as additives to the grout. Other additives may be used with prior approval by the Water Quality Division.

As many as 12,000 wells may be constructed under this permit.

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

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

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

At the conclusion of each phase of this operation a final report shall be required. At a minimum, the number of wells drilled, the volume of material injected into each one, the mix design used for each well, and the abandonment procedure followed for each well shall be reported.

D. Proper Operation and Maintenance

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

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

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

E. Entry and Inspection

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

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

F. Environmental Monitoring Program for Groundwaters of the State

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

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

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

G. Requirements for Monitoring the Discharge

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

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

H. Test Procedures

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

I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.
2. The permittee shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.
3. The permittee shall give advance notice to the administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
4. Monitoring results shall be reported at intervals specified in Section C and/or Section G of this permit.

5. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.
6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.
 - b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable groundwaters of the state.

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

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

- c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the administrator.
11. Annual reports shall be submitted to the administrator within 30 days following the anniversary date of the permit.
12. A comprehensive report for an aborted or curtailed operation authorized by this permit shall be submitted to the administrator within 30 days of complete termination of the injection (discharge) or associated activity, in lieu of an annual report.

J. Permit Actions

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

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

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

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

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

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

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

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

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

K. Mechanical Integrity

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

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

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

L. Abandonment

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

All wells shall be abandoned by filling the hole with cuttings to a depth of no more than 15 feet. Above this, a 10 foot plug of concrete shall be emplaced as shown on the application documents. The top of the hole shall be plugged to match the surroundings. Alternate abandonment procedures may be used with the prior approval of the Water Quality Division.

M. Duties of the Permittee

It is a duty of the permittee to:

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

N. Financial Responsibility

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

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

O. Special Measures the Director Finds Necessary:

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

P. Special Permit Conditions:

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

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

Q. Signatories Requirement

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

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

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

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

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

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

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

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

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

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

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

S. Permit Transfer

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

T. Responsibilities

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

U. Property Rights

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

V. Severability

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

/jn

xc: Stan Barnard, LQD

PERMIT TO CONSTRUCT

New

Permit No. 89-534

Renewal

Modified

K-Mart #7107
(Name of Facility)

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

K-Mart Corporation

2450 Foothill Blvd

Rock Springs, WY 82901

to install a series of soil test borings and groundwater monitor wells for subsurface investigation of the K-Mart facility according to the procedures and conditions of the application No. 89-534. The facility is located in SW NE Section 22, T19N, R105W; 2450 Foothill Blvd., Rock Springs, Wyoming in the County of Sweetwater, 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 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

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.

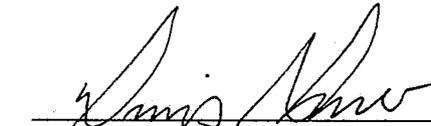
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

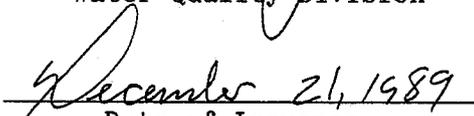
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

This permit does not supersede 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 89-534. Additional wells meeting the requirements of the application 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

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 shall be implemented when the wells are constructed, installed and developed:
 - 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; Factory slotted casing is recommended for the perforated interval;
 - 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 at least one 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. 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 issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.

9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for TPH.

The results of these analyses shall be submitted to the Lander office by the last day of the month following the end of each quarter. If free product is found, the above analysis will not be required, but the thickness of product shall be measured.

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.

PERMIT TO CONSTRUCT
CONDITIONS

- New
 Renewal
 Modified

Permit No. 89-535R

Spring Creek Ranch - Elk Dance Estates, Phase II
(Name of Facility)

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

Spring Creek Resort

P. O. Box 3154

Jackson, WY 83001

to construct water and sewer line extensions according to the procedures and conditions of the application No. 89-535R. The facility is located in NE 1/4 Sec 21, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

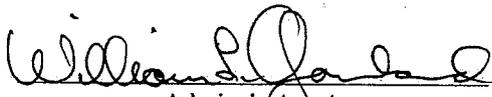
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

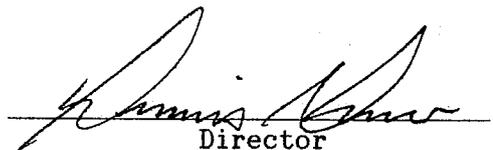
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

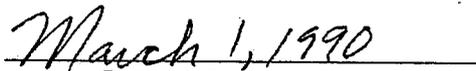
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Dept. of Environmental Quality


Date of Issuance

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

CONDITIONS

1. All service connections must be provided with a backflow preventor.
2. A master plan must be submitted by September 1, 1990. This master plan must show the entire area, all existing construction and proposed locations of future lines.

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 89-536
SEE SPECIAL CONDITIONS
Ref. # 84-229 & 83-426

New
Renewal
X Modified

Jirdon Livestock Company

This permit hereby authorizes the applicant:

Jirdon Livestock Company
ATTN: Butch Anderson
Route 3, Box 55
Torrington, WY 82240

to construct, install or modify commercial wastewater collection and groundwater monitoring program according to the procedures and conditions of the application number 89-536. The facility is located in Section 19, T24N, R60W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

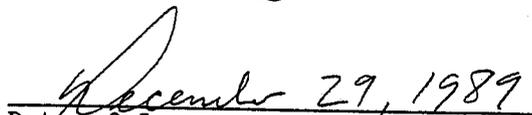
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Department of Environmental Quality


Date of Issuance

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

Special Conditions for Permit 89-536

1. Effectively immediately, the applicant will institute the groundwater monitoring issued under this permit and delete those requirements contained in Permit to Construct #84-229, issued May 15, 1985.
2. The applicant shall monitor the wells listed below annually during the month of June. The applicant shall sample and analyze designated wells for the following parameters: static water level, nitrate-nitrogen (NO₃-N), total dissolved solids, and pH. In addition, during the sampling event in 1990, the water samples shall be analyzed for orthophosphate. If the levels obtained are acceptable, this parameter will not need to be analyzed for again. The groundwater analysis reports shall be submitted to the Water Quality Division in the following month. The Water Quality Division shall be notified 14 days prior to each sampling event so that Water Quality Division personnel may be on-site if deemed necessary. The wells to monitored are:

1-M, 2-M, 4-M, 5-M, 7-M through 14-M, 16-M, 18-D, 20-I, 22-D, 27-D, C-1
3. The groundwater quality monitoring program will be amended as necessary, depending upon monitoring data results.
4. Proper well evacuation, sample collection, preservation, transportation, and chemical analytical procedures shall be completed in accordance with Water Quality Division standard procedures.

DJM/jt



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

January 11, 1990

Gary Zobel, Vice President
Culverts and Industrial Supply Co.
Box 1300
Mills, WY 82644

RE: Mitigation of Soil and Groundwater Hydrocarbon Contamination at Culverts and Industrial Supply Co. at 7242 West Yellowstone
Permit to Construct Application Number ~~89-537~~

Dear Mr. Zobel:

The Department of Environmental Quality/Water Quality Division (DEQ/WQD) has reviewed the December 15, 1989 Supplemental Report for the above referenced site. The Report shows free product in monitoring well MW-1 only, and high levels of dissolved product constituents in monitoring wells MW-5, MW-6, and MW-7. The depth to groundwater was given as 6 to 7 feet below ground surface. It has been proposed in this report, and also during the December 13, 1989 meeting with you and Tom Pilch of DEQ/Solid Waste Management (SWM), that a method involving the excavation of soils combined with removal of the free product be used to mitigate this site. The soils would be excavated to groundwater, exposing the free product on the water surface. The free product would be vacuumed from off the water surface, and any remaining product would be removed by mixing soil with the groundwater. The contaminated soil will then be disposed of on-site in a SWM approved pit.

From the information presently available to the WQD, the proposed mitigation should be acceptable. Before any mitigation is conducted at this site, a plan must be submitted to the WQD for approval. The plan needs to show the steps which will be taken in carrying out the proposed mitigation, and what factors will be considered when determining how much soil and groundwater will be removed. The initial area of soil and groundwater removal must be indicated, and the type of backfill must also be given. The method proposed to remove the free product from the water surface must be shown, and the disposal site must be given. After the excavating has been completed and the excavation has been backfilled, additional groundwater monitoring wells will have to be constructed in the excavated area so groundwater samples can be collected to determine the effectiveness of this mitigation technique.

Approval of the plan by the WQD will be dependent on CISCO receiving approval from SWM for the soil disposal site. The plan for the soil disposal site should be submitted to SWM if it has not already been done.

A permit from WQD will not be required for the proposed mitigation technique. Therefore, your permit application (Number 89-537) is being returned to you. However, the mitigation plan must be approved by WQD before any of the proposed action is taken. WQD should be notified two weeks before the excavating is to begin so a representative of this office can be present if deemed necessary.

We appreciate your continued cooperation and willingness to correct this pollution problem. Please call if you have any questions.

Sincerely,



David Montague
Groundwater Engineering Evaluator
Water Quality Division

DM/jn

xc: Jake Strohman, DEQ/WQD



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

RECEIVED

JAN 28 1991



Department of Environmental Quality

210 Lincoln Street • Lander, Wyoming 82520

Air Quality Division
(307) 332-3144

Land Quality Division
(307) 332-3047

Solid Waste Management Program
(307) 332-3144

Water Quality Division
(307) 332-3144

January 25, 1991

Crank Companies, Inc.
ATTN: Mr. Dale Crank
Box 631
Kemmerer, WY 83101

RE: Wamsutter Highway Shop
Shop Drain Improvements
WQD Reference No. 89-538

Dear Mr. Crank:

This department has completed its review of the plans and specifications for the above referenced project. All of the plans and specifications meet the standards and conditions of Statewide Permit to Construct No. 89-538 issued on January 5, 1990.

This letter shall serve as authorization to construct these improvements. Please retain a copy of this letter as verification of approval to construct these improvements under the Statewide Permit.

Sincerely,

Bill Locke, P.E.
Southwest District Engineer

BL/jyi

cc: Statewide Plan File 89-538
Archives 89-538

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 89-538
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

Modifications to floor sumps at Wyoming Highway Department Shops

This permit hereby authorizes the applicant:

Wyoming Highway Department
P. O. Box 1708
Cheyenne, WY 82002-9019

to construct, install or modify a floor sumps facility according to the procedures and conditions of the application number 89-538. These facilities are located state wide in the State of Wyoming. This permit shall be effective for a period of five years (5 years maximum) from the date of issuance of this permit.

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

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

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

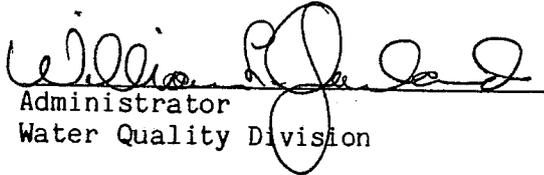
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

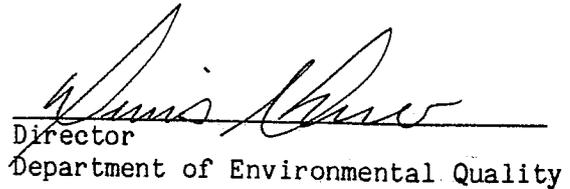
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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

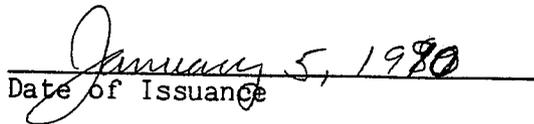
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Department of Environmental Quality


Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT 89-538

1. As the individual sumps are modified the as-built drawings shall be submitted to the appropriate DEQ/WQD district. Those sumps that can not be constructed to meet the retention times as specified in Section 39 of Chapter XI of the DEQ/WQD regulations shall be individually permitted.
2. The as-built drawings shall be accompanied by a letter from the receiving waste treatment system accepting the discharge for the sump. Under no conditions will a floor sump be allowed to drain to an underground drain field.
3. The existing sump proposed for revision at the Rawlins shop is accepted as designed even though the retention times are low. The nature of the operation is such the actual loading is expected to be lower than the basis of design.

LBH/mad

cc: DEQ/WQD District Engineers

PERMIT TO CONSTRUCT

New

Permit No. 89-539

Renewal

Modified

Old Edson Express Warehouse
(Name of Facility)

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

Western Water Consultants

611 Skyline Road

Laramie, WY 82071

to install a ground water monitoring wells at the Old Edson Express Warehouse facility according to the procedures and conditions of the application No. 89-539. The facility is located at the corner of Bent and Monroe Streets in Powell in the County of Park, in the State of Wyoming. This permit shall be effective for a period of one year from the date of issuance of this permit.

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

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or 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.

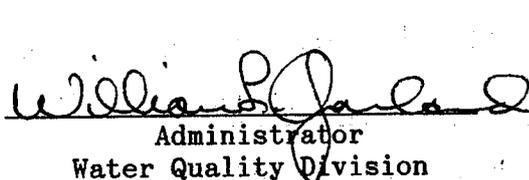
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

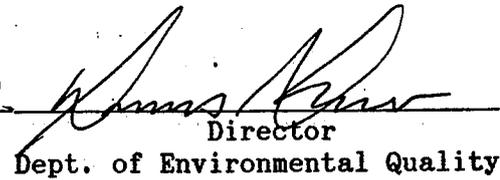
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

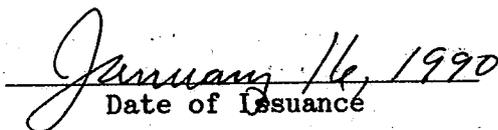
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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


Date of Issuance

This permit does not supersede 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 89-539. Additional wells meeting the requirements of the application 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 shall be implemented when the wells are constructed, installed and developed:
 - 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; Factory slotted casing is recommended for the perforated interval;
 - 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. 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. A seal of bentonite or bentonite grout is required from the surface to at least one 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. 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 issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and

- j. Interpretation of data and conclusions including recommended remedial measures.
 9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
 10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for BETX AND TPH.
-

If free product is found, the above analysis will not be required, but the thickness of product shall be measured.

The results of these analyses shall be submitted to the Lander office in the report due in 90 days. Depending on the results of these analyses, additional sampling and analysis may be required by the Water Quality Division. A sampling schedule will be developed at that time.

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

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 89-540
SEE SPECIAL CONDITION

X New
Renewal
Modified

ROLLING HILLS, WELL #1

This permit hereby authorizes the applicant:

Town of Rolling Hills
Coal Company Route, Box U-2
Glenrock, Wyoming 82637

to construct, install or modify a Chlorinator for well #1 according to the procedures and conditions of the application number 89-540. The facility is located in Township 34N, Range 75W, Section 28, NE/NE in the county of Converse, in the State of Wyoming. This permit shall be effective for a period of one (1) year (5 years maximum) from the date of issuance of this permit.

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

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

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

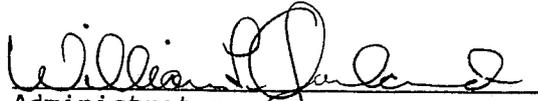
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

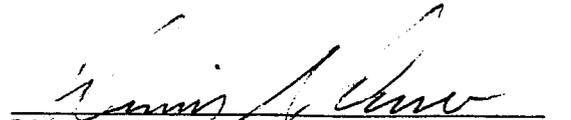
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

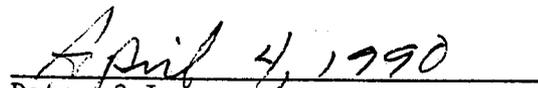
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

CONDITION FOR PERMIT TO CONSTRUCT 89-540

The operation and maintenance manual must be submitted to an approved by the Water Quality Division prior to operation of the chlorine unit.

SCF/jn

PERMIT TO CONSTRUCT

PERMIT NO. 89-541
C560253-01

New
 Renewal
 Modified

Casper BPU - Concrete Sewer Rehabilitation

This permit hereby authorizes the applicant:

Board of Public Utilities
200 North David
Casper, WY 82601

to construct, install or modify concrete sewer rehabilitation project according to the procedures and conditions of the application number 89-541. The facility is located in Section 2 and 3, T35N, R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

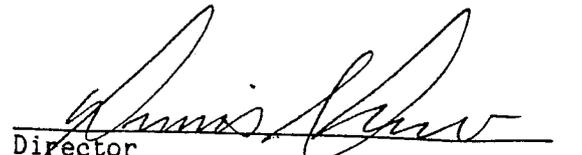
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

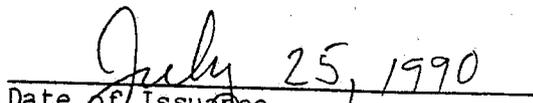
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Department of Environmental Quality


Date of Issuance

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

LL/nc

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 89-542
SEE CONDITIONS

WRIGHT JUNIOR/SENIOR HIGH SCHOOL
(Name of Facility)

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

Campbell County School District

1000 W. 8th Street

Gillette, Wyoming 82716

to construct, install or modify a monitoring well and borehole network according to the procedures and conditions of the application No. 89-542 and inclusive of these modifications. The facility is located in Section 27, T.44N., R.72W., in the County of Campbell, 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.

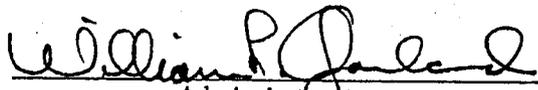
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

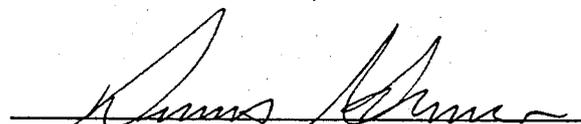
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

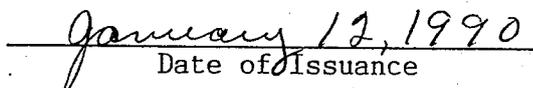
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

CONDITIONS FOR MONITORING WELLS

1. The groundwater monitoring wells and boreholes shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 89-547. Additional wells and boreholes 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 and boreholes 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 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 shall be implemented when the wells are constructed, installed and developed:
 - 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. Factory slotted casing is recommended for the perforated interval;
 - 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. 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. 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 three 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 onsite if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the parameters listed below:

EPA Methods 601 and 418.1 (BETX & TPH).

The results of these analyses shall be submitted to the Sheridan office 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 January.

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.

EJ:jj

xc: Joseph S. McElroy, Special Resource Management, Inc.
P. O. Box 4168, Butte, Montana 59702
Jake Strohman, DEQ/WQD, Cheyenne



Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

April 25, 1990

RECEIVED
APR 27 1990

Mr. Joe McElroy
Special Resource Management, Inc.
P. O. Box 4168
Butte, Montana 59702

WATER QUALITY DIVISION
WYOMING

RE: Wright Jr/Sr High School Facility Investigations;
Other UST Investigations for Campbell County School District;
WQD Permit Application No. 89-543

Dear Joe:

The Department of Environmental Quality, Water Quality Division (DEQ/WQD) has received and reviewed the information submitted regarding the above mentioned activities. The following comments are offered:

1. According to 40 CFR 280.33(a), "Repairs to UST systems must be properly conducted in accordance with a code of practice developed by a nationally recognized association of an independent testing laboratory." Note: The following codes and standards may be used to comply with paragraph (a) of this section: National Fire Protection Association Standard 30, "Flammable and Combustible Liquids Code"; American Petroleum Institute Publication 2200, "Repairing Crude Oil, Liquefied Petroleum Gas, and Product Pipelines"; American Petroleum Institute Publication 1631, "Recommended Practice for the Interior Lining of Existing Steel Underground Storage Tanks"; and National Leak Prevention, Minimum 10 Year Like Extension of Existing Steel Underground Tanks by Lining Without the Addition of Cathodic Protection". During a recent telephone conversation, you indicated that the National Fire Protection Standards were used in repairing the piping at Campbell County School District (CCSD) facilities. This satisfies the WQD concerns regarding this matter.
2. Thank you for your response to the comments made concerning the investigative report submitted for the Wright Jr/Sr High School facility. Please submit the additional sewage line information requested in the WQD February 20, 1990 letter at your earliest convenience.
3. The information necessary (requested in WQD letter sent January 11, 1990) to authorize construction of the soil vapor extraction system installed at the Wright facility has been satisfactorily submitted to the WQD. However, due to recent legislation, WQD Permit No. 89-543 will not be issued. The signed permit applications are being returned at this time. The plans and specifications of this system have been retained for WQD reference at this site. A copy of newly enacted legislation is enclosed for your reference.

Mr. Joe McElroy
April 25, 1990
Page Two

The WQD will be contacting you for further assistance at this site, as applicable. Thank you for your prompt response to these concerns. Your continued cooperation in resolving these issues will be appreciated. If you have additional questions or comments, please do not hesitate to contact me at (307) 672-6457.

Sincerely,



Edith L. Johnson
Groundwater Engineering Evaluator
Water Quality Division

ELJ:jj

xc: Jake Strohman, DEQ/WQD, Cheyenne



Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

January 11, 1990
DEPARTMENT OF ENVIRONMENTAL QUALITY
WYOMING

Joseph S. McElroy
Special Resources Management
P.O. Box 4168
Butte, MT 59702

RE: WQD Permit Application 89-543
Campbell County School District #1
Wright, Campbell County, Wyoming

Dear Joe:

The Department of Environmental Quality, Water Quality Division has received and reviewed the above mentioned permit application package. From review of the information submitted to date, this Division requests the following information and/or conditions be included as part of the application package under review for WQD Permit No. 89-543:

1. The results of any analyses conducted on soil or water removed from this recovery system during the lifetime of the facility shall be provided to the Water Quality Division as soon as they are available.
2. The issuance of this permit does not relieve the permittee from obligations to complete an Extent of Contamination study and any future remedial actions which may be required.
3. The permittee shall notify the Division of the name, phone number and address of the onsite operator of the recovery system.
4. The permittee shall operate the recovery system continuously unless DEQ/WQD allows other operational plans. The Division shall be notified immediately in the event that the hydrocarbon recovery system is not operational for more than 24 hours.
5. An approved Operation and Maintenance Manual shall be provided to the Division and to all operators for the operation of the hydrocarbon recovery system. The O & M Manual shall contain, at a minimum, a schematic, operations guide, maintenance schedule, troubleshooting guide, discharge requirements and limitations (as they apply), DEQ/WQD contact, provisions in the event of a spill, methods for handling and disposing of hydrocarbon product and contaminated water in a proper manner (as this applies to the system), and safety requirements.

Joseph S. McElroy
January 11, 1990
Page Two

6. The hydrocarbon recovery system shall be "winterized" to prevent freeze-up and breakdown.
7. A status report shall be provided to the Division on a quarterly basis with reports due by the last day of January, April, July, and October. The report shall include at a minimum, volumes pumped of water and hydrocarbon product, downtime and dates, effectiveness of the recovery system, monitoring data for all monitoring wells. Monitoring wells shall be sampled as per requirements mandated in Permit No. 88-542. All reports are due within 30 days of the end of each quarter.
8. In the event the system does not operate as planned, provisions shall be made for correcting the deficiencies. In any event, the hydrocarbon product and related dissolved constituents shall be recovered/cleaned up in a timely and diligent manner until released by DEQ/WQD.
9. The domestic wells in the area, if any, shall be sampled for BETX if accessible and any product layers and static water level measured.
10. The NPDES section of the DEQ shall be contacted and all letters of approval or permits required be obtained prior to release of wastewater from this system or monitoring wells to storm sewers and any surface discharge.

Upon submittal of this information, this Department will issue a modified permit for the hydrocarbon recovery/remediation system installed at the Wright Jr/Sr High School site. Your cooperation in promptly resolving this issue will be appreciated. If you have additional questions or comments, please do not hesitate to contact me at (307) 672-6457.

Sincerely,

 FOR

Edith L. Johnson
Groundwater Engineering Evaluator
Water Quality Division

xc: Jake Strohman, DEQ/WQD, Cheyenne
Patti Burns, DEQ/WQD, Cheyenne
Campbell County School District #1; 1000 W. 8th Street;
Gillette, WY 82716



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR



RECEIVED

Department of Environmental Quality

210 Lincoln Street • Lander, Wyoming 82520

Air Quality Division
(307) 332-3144

Land Quality Division
(307) 332-3047

Solid Waste Management Program
(307) 332-3100

Water Quality Division
(307) 332-3144

December 27, 1989

Christmann Oil Company, Inc.
ATTN: Mr. Don Christmann
Box 66
Pinedale, WY 82941

RE: Outlaw Phillips 66 Truckstop - Recovery Trench
Permit to Construct 89-544

Dear Mr. Christmann:

This department has completed its review of the plans and specifications for the above referenced facility. These plans and specifications appear to be in compliance with the State of Wyoming minimum design standards. The system is therefore approved as-built.

A "Permit to Construct" cannot be issued owing to the fact that the system has already been constructed. However, please retain a copy of this letter in your files as verification that the improvements have been accepted by this department. Should you have any questions or comments, please don't hesitate to call me.

Sincerely,

Bill Locke, P.E.
Southwest District Engineer

BL/anc

✓cc: IPS, DEQ/WQD, Cheyenne

PERMIT TO CONSTRUCT

New

Permit No. 89-545R

Renewal

Modified

Boodleman Small Wastewater Treatment Facility
(Name of Facility)

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

Charles Boodleman

Rt. 63, Box 63

Lander, WY 82520

to construct, install, or modify a septic tank, pump station and elevated leach field facility according to the procedures and conditions of the application No. 89-545R. The facility is located in NW 1/4 NE 1/4 Sec. 25, T33N, R100W in the County of Fremont, 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 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.

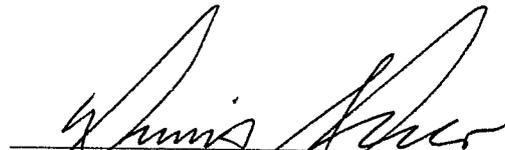
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

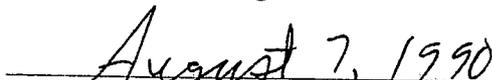
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

SG/jyi

RF.

PERMIT TO CONSTRUCT

New

Permit No. 89-546RRR

Renewal

Modified

General Chemical Cells D & E Modification
(Name of Facility)

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

General Chemical Corp.

P. O. Box 551

Green River, WY 82935

to modify cells D & E of the tailings facility by raising the dikes and increasing the storage capacity facility according to the procedures and conditions of the application No. 89-546RRR. The facility is located in NE 1/4, SE 1/4, Sec 31, 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 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



Date of Issuance

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

PERMIT NO. 89-547
SEE CONDITIONS

JOHNSON COUNTY ROAD & BRIDGE DEPARTMENT
(Name of Facility)

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

Johnson County Road & Bridge

76 N. Main

Buffalo, Wyoming 82834

to construct, install or modify a monitoring well and borehole network according to the procedures and conditions of the application No. 89-547 and inclusive of these modifications. The facility is located in Section 35, T.51N., R.82W., 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, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.

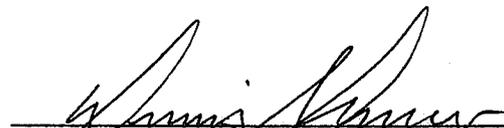
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

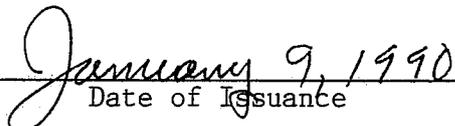
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality



Date of Issuance

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

CONDITIONS FOR MONITORING WELLS

1. The groundwater monitoring wells and boreholes shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 89-547. Additional wells and boreholes 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 and boreholes 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 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 shall be implemented when the wells are constructed, installed and developed:
 - 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. Factory slotted casing is recommended for the perforated interval;
 - 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. 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. 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 three 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 onsite if deemed necessary.
8. Within 90 days of the issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. Final location, construction details and logs of all monitoring wells;
 - d. Geohydrolic maps and/or cross sections that clearly describe the subsurface distribution of geological materials and groundwater occurrence;
 - e. Water level and product thickness measurements;
 - f. Sample collection procedures;
 - g. Sampling analytical results;
 - h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - i. A potentiometric surface map showing the direction of groundwater movement; and
 - j. Interpretation of data and conclusions including recommended remedial measures.
9. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.
10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the parameters listed below:

EPA Methods 601 and 418.1 (BETX & TPH).

The results of these analyses shall be submitted to the Sheridan office 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 January.

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.

EJ:jj

xc: J. D. Pelesky Construction Co., Inc.
P. O. Box 1084, Sheridan, Wyoming 82801
Jake Strohman, DEQ/WQD, Cheyenne

R7



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

January 3, 1990

Deerwood Ranch LTD
599 State Highway 11
Laramie, WY 82070

RE: Permit to Construct Application Number 89-548, S26, T15N, R78W, Albany County

Dear Mr. Cole:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (#89-548) concerning the septic systems on the Deerwood Ranch built in 1982 and 1986. The Water Quality Division has determined that the septic systems meet the minimum state standards for isolation distances to wells, property lines, seasonal high groundwater, etc. Based on more than three years of actual operating experience, the systems appear to be adequately sized for current conditions. 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 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/LBH/nc

cc: Albany County Planning Office

PERMIT TO CONSTRUCT

PERMIT NO. 89-549
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Cheyenne Repair Shop

This permit hereby authorizes the applicant:

Wyoming State Highway Department
P O Box 1708
Cheyenne, WY 82002

to construct, install or modify groundwater monitoring well according to the procedures and conditions of the application number 89-549. The facility is located in S24, T14N, R67W, NWSW1/4 in the county of Laramie, 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.

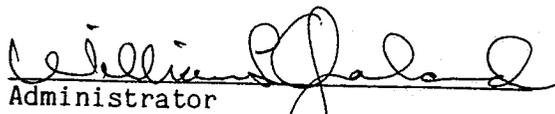
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

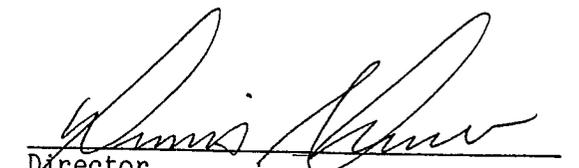
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District Engineer,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

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

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

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Department of Environmental Quality

February 2, 1990
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-549

1. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study. Results of the initial site investigation will be reviewed by the Department of Environmental Quality, Water Quality Division (DEQ/WQD) to determine whether or not further investigatory work or remedial actions be required at the site.
2. DEQ/WQD personnel shall be given at least 24 hours notice prior to sample collection. Additional wells installed at the site must have prior approval from DEQ/WQD.
3. Within 30 days of issuance of this permit, a report on the subsurface investigation must be submitted to DEQ/WQD. The report must include the following items:
 - a. Sample collection procedures, QA/QC information and analytical methods;
 - b. Static water level, product thickness and analytical results; and
 - c. Interpretation of data and conclusions including recommended remedial actions.
4. After the monitoring wells have fulfilled their useful purpose, and upon approval by DEQ/WQD, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Wyoming Water Quality Rules and Regulations. A plugging record must be filed with the DEQ/WQD within 15 days of abandonment.

DM/nc

cc: Jake Strohman, DEQ/WQD



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

March 2, 1990

Belle Fourch Pipeline Company
P. O. Drawer 2360
Casper, Wyoming 82602

RE: Deep Bed Anode Permit to Construct 89-550

Dear Sir:

The deep bed anodes installed under the above permit require that a surface seal be placed to insure that surface waters do not run down the hole. When the permit was drafted, it was not anticipated that the coke breeze would stop more than 30 feet from the surface and no provision was allowed for filling the interval from the top of the coke breeze to the bottom of the surface seal with cuttings. In your case, the coke breeze anode is installed with the top more than 100 feet below the surface. In this situation, it is acceptable to install a 20 foot thick bentonite and cement seal on the surface and fill the hole with cuttings between the coke breeze and the base of this seal.

Thank you for your cooperation. I am sorry for the inconvenience caused by this oversight.

Sincerely,

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

RL/jn

xc: Jake Strohman, DEQ/WQD
Construction File 89-550 ✓

R.F.

PERMIT TO CONSTRUCT

PERMIT NO. 89-550
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

Belle Fourche Pipeline Groundbed

This permit hereby authorizes the applicant:

Belle Fourche Pipeline Company
P O Drawer 2360
Casper, WY 82602

to construct, install or modify cathodic protection groundbeds according to the procedures and conditions of the application number 89-550. The facility is located in Statewide in the county of Statewide, in the State of Wyoming. This permit shall be effective for a period of five years (5 years maximum) from the date of issuance of this permit.

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

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

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

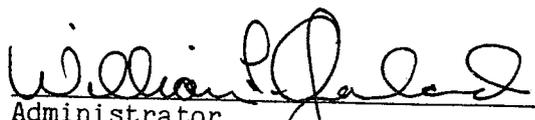
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

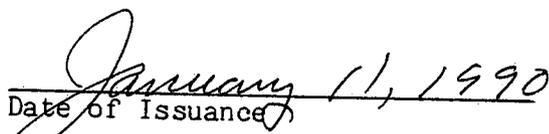
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Department of Environmental Quality


Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #89-550

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 89-550.
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. 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 each 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.
5. An unlimited number of similar anodes may be installed during the term of this permit. All installations shall have similar construction specifications.



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7756

Solid Waste Management Program
(307) 777-7752

Water Quality Division
(307) 777-7781

January 11, 1990

The Honorable Michael Mayville
Mayor, Town of Greybull
P O Box 271
Greybull, WY 82414

RE: Town of Greybull, Wyoming C560257-94, DEQ/WQD Ref. No. 89-551, Approval of Plans and Specifications

Dear Mayor Mayville:

The plans and specifications for the construction of Sanitary Sewer Improvements for the referenced project have been reviewed by the State of Wyoming Department of Environmental Quality. This office hereby approves the plans and specifications and is enclosing a permit to construct. This permit includes a waiver of the Wyoming DEQ/WQD Chapter XI regulation requiring creek crossing by sewers be within 10' of perpendicular to the creek. The proposed crossing is approximately 20' from perpendicular to the creek. These are revised plans and specifications with the previous permit being no. 89-191. This permit does not supercede the requirements for obtaining any permit from local or state agencies.

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

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

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

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

1. Contracts may not be awarded until authorization has been given by the Department of Environmental Quality.
2. Prior DEQ approval is required for rejection of bids on any contract on this project.
3. Current wage rates must be in the specifications prior to bid opening.
4. Bidders must submit with their bid a signed statement as to whether they have previously performed work subject to the President's Executive Order Number 11246.
5. Contact EPA if any questions arise concerning MBE/WBE utilization on this project.

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

Sincerely,



William L. Garland
Administrator
Water Quality Division

WLG/SS/jn

Enclosures

cc: EPA, Region VIII
Dale Crank, Crank Companies, Inc.
Grant File

PERMIT TO CONSTRUCT

PERMIT NO. 89-551

X New
Renewal
Modified

Town of Greybull Sanitary Sewer Improvements

This permit hereby authorizes the applicant:

Town of Greybull
24 South 5th Street
Greybull, WY 82426

to construct, install or modify sanitary sewer improvements according to the procedures and conditions of the application number 89-551. The facility is located in S8 & S5, T52N, R93W in the county of Big Horn, 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.

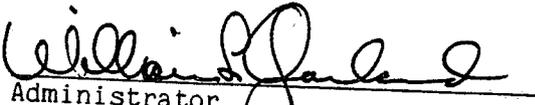
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

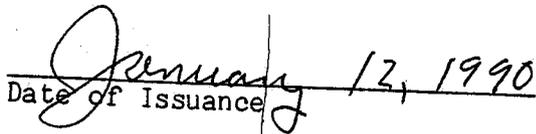
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

SS/jn

EF

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 89-552R

Trails End Ranch Water System
(Name of Facility)

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

Wild West Associates, ATTN Matthew Davis

P.O. Box 20311

Jackson, WY 83001

to construct and install 2-water supply wells, 2 10,000 gallon water storage tanks, chlorination system, and distribution piping facility according to the procedures and conditions of the application No. 89-552R. The facility is located in NE 1/4 and NW 1/4 Section 15, T39N, R117W in the County of Teton, 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 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.

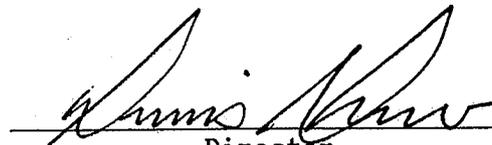
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

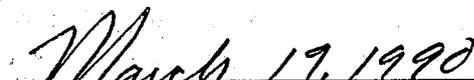
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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


Date of Issuance

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

Conditions on Permit

Within 60 days after the wells are drilled and tested, the well logs, pump selected, pump curve, gravel pack sizing, and casing slot sizing data must be shipped to this office.

PERMIT TO CONSTRUCT

PERMIT NO. 89-553
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Natrona County Road & Bridge Facility

This permit hereby authorizes the applicant:

Leak Search Inc.
104 S. Wolcott, Suite 724
Casper, WY 82602

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-553. The facility is located in Section 12, T33N, R80W, NE1/4 in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of one (1) year (5 years maximum) from the date of issuance of this permit.

The issuance of this permit provides that the Department of Environmental Quality has evaluated and determined that the application meets minimum applicable 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: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

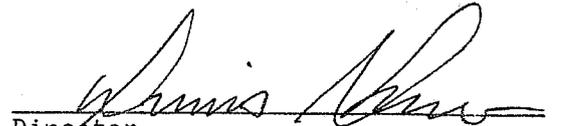
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

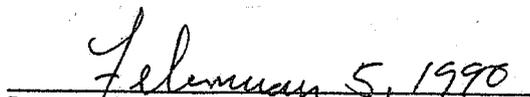
AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality



Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT # 89-553

1. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study. Results of the initial site investigation will be reviewed by the Department of Environmental Quality, Water Quality Division (DEQ/WQD) to determine whether or not further investigatory work or remedial actions be required at the site.
2. The results from the soil vapor survey and the proposed location of the monitoring wells shall be provided to DEQ/WQD as soon as they are available, prior to installation of the monitoring wells. Prior approval shall be obtained from DEQ/WQD for the location of the monitoring wells before they are installed. At least three monitoring wells shall be installed at the tank excavation site in question to determine local groundwater gradient and extent of groundwater contamination.
3. All monitoring wells associated with this facility shall be sampled and the wastewater analyzed for BTEX (EPA method 602) and TPH (EPA method 418.1).
4. DEQ/WQD personnel shall be given at least 24 hours notice prior to the installation of the monitor wells and sample collection. Additional wells installed at the site must have prior approval from DEQ/WQD.
5. 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 DEQ/WQD. All wells must have a unique number.

Conditions to Permit 89-553 (continued)

6. Within 60 days of issuance of this permit, a report on the subsurface investigation must be submitted to DEQ/WQD. The report must include the following items:
 - a. A chronology of events leading up to the investigation;
 - b. A site map showing physical features, well locations and elevations;
 - c. A potentiometric surface map showing the direction of groundwater movement;
 - d. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;
 - e. A description of the subsurface geologic conditions;
 - f. Construction details and logs of all monitor wells;
 - g. Sample collection procedures, QA/QC information and analytical methods;
 - h. Static water level, product thickness and analytical results; and
 - i. Interpretation of data and conclusions including recommended remedial actions.
7. After the monitoring wells have fulfilled their useful purpose, and upon approval by DEQ/WQD, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Wyoming Water Quality Rules and Regulations. A plugging record must be filed with the DEQ/WQD within 15 days of abandonment.

DM/jt

xc: Jake Strohman, DEQ/WQD

RF

PERMIT TO CONSTRUCT

PERMIT NO. 89-554
SEE SPECIAL CONDITIONS

- X New
- Renewal
- Modified

Mini Mart Store #123/Groundwater Monitoring System

This permit hereby authorizes the applicant:

Terry Oldfield/Mini Mart, Inc.
P O Box 3259
Casper, WY 82602

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application number 89-554. The facility is located in S34, T16N, R73W, SWSE $\frac{1}{4}$ in the county of Albany, 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: 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.