LAND APPLICATION PERMIT

[ ] New

[x] Renewal

[ ] Modified

PERMIT NO. 92-151
(Reference 91-282)
SEE SPECIAL CONDITIONS

DILLINGER ROAD APPLICATION
(Name of Facility)

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

Kissack Water & Oil Service, Inc.
P.O. Box 9
Rozet, WY 82727

to land apply waste crude oil and sludges according to the procedures and conditions of the application No. 92-151. The application site is located in Section 11, 13, 14, T47N, R69W in the County of Weston in the State of Wyoming. This permit shall be effective until November 1, 1992.

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

7-1-92
Date of Issuance

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

DRM/pr:6/10/92

LAND APPLICATION SPECIAL CONDITIONS

1 of 5. Crude oil stained soils shall be applied uniformly. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist. Crude oil stained soils shall not be applied during the period from November 1 to April 10.

2 of 5. The application site slope shall not exceed eight percent (8%) for vehicular application.

3 of 5. Crude oil stained soils application shall be terminated with 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

4 of 5. Any waste crude oil and sludge application after November 1, 1992 must be repermitted.

5 of 5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, telephone number 307/672-6457, to arrange a field inspection prior to initiation of work. The District Office should be notified at least 48 hours in advance of discharges and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

PERMIT TO CONSTRUCT

[X] New Permit No. 92-152R

[ ] Renewal

[ ] Modified

High Plains Addition - Green River
(Name of Facility)

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

FMC Wyoming Corporation

P.O. Box 872

Green River, WY 82935

to construct a water supply and wastewater collection system according to the procedures and conditions of the application No. 92-152R. The facility is located in the NW¼ of Section 35, T18N, R107W 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

11-16-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

SR/jyi

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 92-153R

Elk Run Development
(Name of Facility)

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

James L. Gregory

4270 Idaho St., Suite B

Elko, NV 83801

to construct a water distribution and sewer collection system according to the procedures and conditions of the application No. 92-153R. The facility is located in SE¼ Section 32, T41N, R116W 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

7-30-92
Date of Issuance

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

JH/jhi

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 92-154R

Bower Addition
(Name of Facility)

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

George Bower

118 N 19th St.

Worland, WY 82401

to construct a water and sewer system for the Bower Addition to the City of Worland facility according to the procedures and conditions of the application No. 92-154R. The facility is located in SE¼ SE¼ Sec. 19, T47N, R92W in the County of Washakie, 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

8-14-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

JH/jyi

PERMIT TO CONSTRUCT

[X] New Permit No. 92-156RR

[ ] Renewal

[ ] Modified

Southfork Area Treated Water Main Extension
(Name of Facility)

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

City of Cody

1338 Rumsey Ave.

Cody, WY 82414

to construct 6, 8 and 10 inch water mains in the Spirit Mt. Subdivision, along the Southfork Highway and Robertson St. according to the procedures and conditions of the application No. 92-156RR. The facility is located in Lots 72 thru 77, T52N, R102W, resurvey 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

8-27-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

PERMIT TO CONSTRUCT

PERMIT NO. 92-157
See Special Conditions

X New
Renewal
Modified

DEAN ANDERSON HOG SITE NO. 3

This permit hereby authorizes the applicant:

Dean N. Anderson
2527 State Road 215
Pine Bluffs, WY 82082-9730

to construct, install or modify an animal waste disposal system according to the procedures and conditions of the application number 92-157. The facility is located in SE¼ Section 10 T16N R60W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

7-7-92
Date of Issuance

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

Conditions for Permit to Construct 92-157

1 of 4. This system is permitted under Section 5 of Chapter XI DEQ/WQD regulations as an alternate technology. Large single cell anaerobic livestock waste treatment facilities such as this one will be evaluated using the "Livestock Waste Facilities Handbook" published by the Midwest Plan Service, Iowa State University, Ames, Iowa.

2 of 4. Because the 2.25 feet of compacted earth fill does not meet to requirement of a liner equivalent to 3 feet of soil with a permeability of 10^{-7}cm/sec., this facility is permitted under the provisions of DEQ/WQD Chapter VII Section 4(d)(6) which states "A discharge which results in concentrations in excess of standards shall be permitted is post-discharge water quality can be returned to water quality standards or better quality." The information submitted is adequate to qualify as a subsurface investigation as required by Section 15 of Chapter III of the DEQ/WQD regulations.

a. In order to verify the groundwater pollution control prediction model submitted in the application, the following sampling schedule and procedure shall be followed. Two existing wells shall be used as monitoring wells, the well 550 ft south of the southeast corner of the lagoon, and the well to be used to supply water for the hog feedlot site. Each well shall be analyzed for nitrates as "N" before construction of the lagoon and during August and March of each year thereafter. The groundwater monitoring data will be evaluated at the end of the first four (4) year period to determine whether schedules can be revised.

b. The annual report will include the groundwater monitoring results and a cover sheet that is a 1" = 1000 ft map that shows the location and surface elevation of the site, all improvements and all wells within 1/2 mile of the lagoon. The groundwater monitoring results and a master report should be maintained by the owner and an updated copy mailed to DEQ/WQD within 45 days of the March sampling event annually.

c. If the protection of off site water quality cannot be verified, additional measures as necessary must be taken.

3 of 4. When use of the facility is discontinued for more than 30 days, the lagoon shall be emptied and the sludges utilized as fertilizers at application rates that do not exceed common agricultural practices. If nitrate levels exceed 10 ppm with more than 5 ppm attributable to this operation, the wells must be operated after the facility is closed. The well operation will continue until the nitrate levels return to background or 10 ppm, whichever is the larger value, for a period of 1 year.

4 of 4. This permit serves as a land application permit. The waste must be applied as recommended in the design report. The waste cannot be applied directly to growing edible crops such as dry beans.

LBH/jn
22028.ltr

cc: Mr. Duane Klamm, State Conservation Engineer
USDA- Soil Conservation Service
100 East B
Casper, Wyoming 82601

PERMIT TO CONSTRUCT

[X] New Permit No. 92-158

[ ] Renewal

[ ] Modified

Hillhouse Septic System
(Name of Facility)

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

Leon C. Hirsh

150 Glover Avenue

Norwalk, CT 06856

to install septic tanks and leaching chamber to service a seven bedroom home according to the procedures and conditions of the application No. 92-158. The facility is located in SW¼, Sec 24, T34N, R114W in the County of Sublette, 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

6-17-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.
BL/jyi

PERMIT TO CONSTRUCT

[ ] New

[ ] Renewal

[X] Modified

CORRECTED COPY
PERMIT NO. 92-159

FORMER BORDER FUEL SUPPLY FACILITIES
(Name of Facility)

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

Eighty-Eight Oil Company
P.O. Drawer 2360
Casper, WY 82602

to construct, install or modify a monitoring well and/or test hole network according to the procedures and conditions of the application No. 92-159. The facility is located statewide in the State of Wyoming. This permit shall be effective for a period of three (3) years from the date of issuance of this permit.

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

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

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

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

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

7-1-92
Date of Issuance

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

EJL/pr:07/23/92

Conditions for Monitoring Wells

1 of 16. The groundwater monitoring wells and/or test holes shall be installed in accordance with the conditions of this permit and the work plans and specifications submitted in permit to construct application number 92-159. Additional wells and test holes meeting the requirements of the application and this permit may be installed if prior approval is received from the appropriate Water Quality Division (WQD).

2 of 16. 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 of 16. 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 of 16. 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 of 16. 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. At a minimum, one upgradient and two downgradient wells shall be installed at each facility.

6 of 16. 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 that the casing diameter;

c. 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;

d. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;

e. A seal of bentonite or bentonite grout is required from the surface seal to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and

f. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.

7 of 16. 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 of 16. Within 6 months of completing drilling activities at each facility, 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 (if different than those proposed in the work plan approved by the respective district office).

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 of 16. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed.

10 of 16. All monitor wells associated with this facility shall be sampled and the wastewater analyzed for the parameters listed below:

BTEX (by EPA Method 602) and TPH (by EPA Method 418.1 or equivalent method).

The results of these analyses shall be submitted to the appropriate district office by the deadlines approved by that district office.

11 of 16. The results of any analyses (other than the analyses required under Conditions 10 and 14 of this permit) conducted on soil or water removed from these wells or testholes shall be provided to the department as soon as they are available or at deadlines set by the appropriate DEQ/WQD district office.

12 of 16. A general work plan has been approved by the NE District and attached to this permit. Work plans must be approved prior to the installation of monitoring wells or test holes in other districts of the WQD.

13 of 16. A proposed work schedule and time table shall accompany all work plans submitted for WQD approval or review.

14 of 16. All soil samples collected from testholes and monitoring wells shall be analyzed for BTEX (by EPA Method 8020) and TPH (by EPA Method 8015).

15 of 16. The selection of hand auger locations shall be based upon observed contamination and known sources.

16 OF 16. In the event that groundwater contamination is detected (either in dissolved or free product phase), the appropriate DEQ/WQD office shall be notified as soon as possible.

cc: Kevin Frederick, WQD, Cheyenne

PERMIT TO CONSTRUCT

[X] New

PERMIT NO. 92-159

[ ] Renewal

[ ] Modified

FORMER BORDER FUEL SUPPLY FACILITIES
(Name of Facility)

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

Eighty-Eight Oil Company
P.O. Drawer 2360
Casper, WY 82602

to construct, install or modify monitoring well and/or test hole network according to the procedures and conditions of the application No. 92-159. The facility is located statewide in the State of Wyoming. This permit shall be effective for a period of three (3) years from the date of issuance of this permit.

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

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

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

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

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

7-1-92
Date of Issuance

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

EJL/pr:06/25/92

Conditions for Monitoring Wells

1 of 15. The groundwater monitoring wells and/or test holes shall be installed in accordance with the conditions of this permit and the work plans and specifications submitted in permit to construct application number 92-159. Additional wells and test holes meeting the requirements of the application and this permit may be installed if prior approval is received from the appropriate Water Quality Division (WQD).

2 of 15. 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 of 15. 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 of 15. 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 of 15. 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. At a minimum, one upgradient and two downgradient wells shall be installed at each facility.

6 of 15. 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 that the casing diameter;

c. 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;

d. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;

e. A seal of bentonite or bentonite grout is required from the surface seal to a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and

f. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.

7 of 15. 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 of 15. Within 6 months of completing drilling activities at each facility, 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 (if different than those proposed in the work plan approved by the respective district office).

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 of 15. Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed.

10 of 15. All monitor wells associated with this facility shall be sampled and the wastewater analyzed for the parameters listed below:

BTEX (by EPA Method 602) and TPH (by EPA Method 418.1 or equivalent method).

The results of these analyses shall be submitted to the appropriate district office by the deadlines approved by the appropriate district office. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of receipt of this permit. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of receipt of this permit.

11 of 15. The results of any analyses conducted on soil or water removed from these wells or testholes shall be provided to the department as soon as they are available.

12 of 15. A general work plan has been approved by the NE District and attached to this permit. Work plans must be approved prior to the installation of monitoring wells or test holes in other districts of the WQD.

13 of 15. A proposed work schedule and time table shall accompany all work plans submitted for WQD approval or review.

14 of 15. All soil samples collected from testholes and monitoring wells shall be analyzed for BTEX (by EPA Method 8020) and TPH (by EPA Method 8015).

15 of 15. The selection of hand auger locations shall be based upon observed contamination and known sources.

cc: Kevin Frederick, WQD, Cheyenne

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-160
See Special Conditions

Coastal Chem, Inc. Solids Decant Cells

This permit hereby authorizes the applicant:

Coastal Chem, Inc.
P O Box 1287
Cheyenne, WY 82003

to construct, install or modify a concrete decanting pond for decanting calcium carbonate and calcium sulfate according to the procedures and conditions of the application number 92-160. The facility is located in Section 16, NW ¼, NW ¼, T13N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 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, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

6-18-92
Date of Issuance

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

Special Conditions for Permit to Construct

1 of 2 Coastal Chem, Inc. shall notify the Water Quality Division when decisions have been made concerning the disposal of the precipitated salts. If the decision is to dispose of them by landfarming, prior to disposal, Solid Waste Management permits shall be obtained. Any other disposal or use shall obtain all necessary permits prior to implementation.

2 of 2 A variance is hereby granted from requirements for migratory bird pennants and free board requirements. This variance is made possible by the very small size of the decant ponds, less than 20 feet wide and 60 feet long.

RFL/mad 21649.LTR

cc: Jake Strohman, DEQ/WQD
Louis Harmon, DEQ/WQD

HARMON

92-161

Town of Torrington - Municipal Wastewater Treatment & Collection System Improvements

6/2/92 UR 8/2/92

6-5-92 aw

PERMIT TO CONSTRUCT

PERMIT NO. 92-165

X New
Renewal
Modified

GMS SUBDIVISION WATER AND SEWER LINE EXTENSIONS

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
2406 Snyder
Cheyenne, WY 82003

to construct, install or modify water and sewer line extensions according to the procedures and conditions of the application number 92-165. The facility is located in Section 19 T14N R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (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 Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

7/15/92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

LBH/jn
22057.LTR

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 92-162

Town of Superior Water Supply Pipeline
(Name of Facility)

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

Town of Superior

Mr. Ken Boyer, Mayor

P.O. Box 40

Superior, WY 82945

to construct a water supply pipeline and pump station facility according to the procedures and conditions of the application No. 92-162. The facility is located in Sections 25,26 and 27 of Township 21 North, Range 102 West and Sections 19,20,21 and 30 of Township 21 North, Range 101 West 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

6-23-92
Date of Issuance

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

SR/sr

PERMIT TO CONSTRUCT

[X] New Permit No. 92-163

[ ] Renewal

[ ] Modified

Hunter's Ridge Subdivision - Phase II
(Name of Facility)

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

Robert L. Tarufelli

1257 Palisades Way

Rock Springs, WY 82901

to construct a sanitary sewer collection and domestic water supply piping systems according to the procedures and conditions of the application No. 92-163. The facility is located in Lot 7 Sec. 28, T19N, R105W 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

7-1-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

BL/jyi

PERMIT TO CONSTRUCT

[X] New Permit No. 92-164RR

[ ] Renewal

[ ] Modified

Whiston Summer Home
(Name of Facility)

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

R. E. And Marrian Whiston

2024 Lynwood

Casper, WY 82604

to construct a seepage pit for a shower according to the procedures and conditions of the application No. 92-164RR. The facility is located in Sec 19, T53N, R88W in the County of Big Horn, 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

9-14-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

JH/jyi

PERMIT TO CONSTRUCT

[ ] New

[ ] Renewal

[X] Modified

Permit No. 92-166R
Reference 91-385

WYO-BEN Septic System
(Name of Facility)

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

WYO-BEN

P.O. Box 155

Lovell, WY 82431

to construct a septic tank/leach bed according to the procedures and conditions of the application No. 92-166R. The facility is located in SW 1/4 NE 1/4 Section 8, T56N, R96W original survey in the County of Big Horn, 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

9-8-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

JH/anc

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-167
SPECIAL CONDITIONS

MOBIL EXPLORATION AND PRODUCING U.S. INC., STATEWIDE ANODE

This permit hereby authorizes the applicant:

Mobil Exploration and Producing U.S., Inc.
c/o T.G. Martin
12450 Greenspoint Drive
Houston, Texas 77060-1991

to construct, install or modify a deep groundbed anode system according to the procedures and conditions of the application number 92-167. The facility is located Statewide in Wyoming. This permit shall be effective for a period of five (5) years from the date of issuance of this permit.

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

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

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

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

PERMIT NO.92-167

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: UIC Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

6-10-92
Date of Issuance

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

SPECIAL CONDITIONS

1 of 13. The cathodic protection deep anode ground bed shall be installed in accordance with the conditions of this permit and plans and specifications submitted in permit to construct application number 92-167.

2 of 13. After the deep anode bed has fulfilled its useful purpose, it shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Wyoming Water Quality Rules and Regulations. Within 15 days after the well is plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.

3 of 13. 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. The coke breeze shall have a total organic carbon content of no greater than two (2) percent;

b. All aquifers encountered while drilling shall be isolated from one another using a bentonite seal of at least three (3) feet in vertical dimension;

c. The coke breeze shall be a high quality product containing a minimum of leachable metals or organic pollutants. The coke breeze shall not discharge any pollutant which will cause a groundwater standards violation;

d. Surface access to the anode shall be kept sealed and locked at all times when the anode is not actually being serviced; and

e. Each separate aquifer penetrated shall require a separate breather pipe. Each aquifer shall remain in hydrologic isolation after installation of the anode if they were isolated before installation.

4 of 13. Within 45 days after the well is installed, as-built construction plans shall be submitted to the Department of Environmental Quality, Water Quality Division, detailing that the groundwater was protected during the installation of the groundbeds.

5 of 13. If it becomes necessary to wet any anode installed under this permit, only water from an approved public water supply shall be used unless the Water Quality Division is first supplied with an analyses for approval. Waters that originate from other than an approved public water supply shall not be used unless first approved.

6 of 13. An unlimited number of similar anodes may be installed statewide under this permit. This authorization applies to Mobil Exploration and Producing U.S., Inc. and any of its subsidiaries operating in Wyoming. All anodes installed under this permit shall have similar construction specifications.

7 of 13. In addition to the shallow anode bed (surface anode or surface rail) construction information submitted with the application, a monitoring well shall be installed within fifty (50) feet of the anode bed and to a depth ten (10) feet deeper than the excavation for the shallow anode on each of the 28 wellsites named in the application.

a. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within

fifteen (15) days after a well has been plugged and abandoned, the owner shall file a plugging record with WQD;

b. 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 using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base;

c. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;

d. The screened interval shall extend at least two (2) feet above the highest expected groundwater level and at least five feet below the lowest expected groundwater level. Factory slotted casing is recommended for the perforated interval;

e. If PVC casing is used, the casing shall be installed using mechanical connectors without the use of solvents or glues to hold the casing sections together. This mechanical connection may use set screws, threads, or other types of couplings;

f. 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;

g. A top and bottom cap shall be installed to prevent sediment and surface water from entering the well;

h. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;

i. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal. Protective casing shall be cemented into a sloping concrete cap; and

j. Proper well evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

8 of 13. Each monitor well associated with this permit shall be sampled and the groundwater analyzed once at installation and again one year later for the following listed parameters:

Analysis Method	Parameter to be Analyzed
EPA 273.1	Sodium
EPA 242.1	Magnesium
EPA 215.1	Calcium
Standard Methods 403	Bicarbonate
EPA 375.2	Sulfate
EPA 350.3	Ammonia as N
EPA 353.2	Nitrate as N
EPA 325.2	Chloride
EPA 160.1	Total Dissolved Solids
EPA 150.1	pH
EPA 206.2	Arsenic
EPA 212.3	Boron
EPA 213.2	Cadmium
EPA 218.1	Chromium
EPA 220.1	Copper
EPA 236.1	Iron
EPA 239.2	Lead
EPA 245.1	Mercury
EPA 270.2	Selenium
Probe	Static Water Level

a. Based on the results of the above two analyses, the Water Quality Division may require additional monitoring if there is any appreciable change in the water quality between the first analyses and the second analyses. If the results from the first analyses shows that the aquifer monitored is class IV under Chapter VIII Wyoming Water Quality Rules and Regulations, then the department may waive the second analyses.

b. The results of these analyses shall be submitted to the Cheyenne office by the last day of the month following the end of the calendar quarter in which the analyses was completed.

c. The permittee may use equivalent methods with prior Water Quality Division approval.

9 of 12. 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 the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.

10 of 12. After the monitoring wells have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within fifteen (15) days after a well has been plugged and abandoned, the owner shall file a plugging record with WQD.

11 of 12. 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 using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.

12 of 12.
With the first required groundwater monitoring results after any monitor well is installed under this permit, as-built construction plans shall be submitted to the Department of Environmental Quality, Water Quality Division, showing the details about the construction of the monitor well. These as-built plans shall show the surface seal, locking surface cap, gravel pack, screened interval, and static water level.

/jn
21670.ltr

cc: Jake Strohman, DEQ/WQD

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-168

Frontier Refining SRU and Amine Plant Sewer Piping Plan

This permit hereby authorizes the applicant:

Frontier Oil Co.
P.O. Box 1588
Cheyenne, WY 82003

to construct, install or modify refinery storm water sewer according to the procedures and conditions of the application number 92-168. The facility is located in NW 1/4 Section 4 T13N R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

7-1-92
Date of Issuance

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

LBH/nc 21913.LTR

PERMIT TO CONSTRUCT

[X] New Permit No. 92-169

[ ] Renewal

[ ] Modified

1992 Capital Improvements Project
(Name of Facility)

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

City of Green River

50 East 2nd North

Green River, WY 82935

to install a new 6" diameter water main and 8" diameter sewer main according to the procedures and conditions of the application No. 92-169. The facility is located in NE¼ Sec. 22 and NE¼ Sec. 35, T18N, R107W 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

6-23-92
Date of Issuance

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

BL/jyi

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-170
SPECIAL CONDITIONS

PACIFICORP - DAVE JOHNSTON POWER PLANT - ANODE

This permit hereby authorizes the applicant:

Pacificorp
c/o Barry Cunningham
1591 Tank Farm Road
Glenrock, WY 82637

to construct, install or modify a deep groundbed anode system according to the procedures and conditions of the application number 92-170. The facility is located in Section 7, SWSE, T33N, R74W in Converse County in Wyoming. This permit shall be effective for a period of five (5) years from the date of issuance of this permit.

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

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

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

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

PERMIT NO. 92-170

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: Program Supervisor, UIC Section, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

6-16-92
Date of Issuance

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

SPECIAL CONDITIONS

1 of 6. The cathodic protection deep anode groundbed shall be installed in accordance with the conditions of this permit and plans and specifications submitted in permit to construct application number 92-170.

2 of 6. After the deep anode bed has fulfilled its useful purpose, it shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Wyoming Water Quality Rules and Regulations. Within 15 days after the well is plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.

3 of 6. 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. The coke breeze shall have a total organic carbon content of no greater than .2 percent;

b. All aquifers encountered while drilling shall be isolated from one another using a bentonite seal of at least three (3) feet in vertical dimension;

c. The coke breeze shall be a high quality product containing a minimum of leachable metals or organic pollutants. The coke breeze shall not discharge any pollutant which will cause a groundwater standards violation;

d. Surface access to the anode shall be kept sealed and locked at all times when the anode is not actually being serviced; and

e. Each separate aquifer penetrated shall require a separate breather pipe. Each aquifer shall remain in hydrologic isolation after installation of the anode if they were isolated before installation.

4 of 6. Within 45 days after the well is installed, as-built construction plans shall be submitted to the Department of Environmental Quality, Water Quality Division, detailing that the groundwater was protected during the installation of the groundbeds.

5 of 6. If it becomes necessary to wet any anode installed under this permit, only water from an approved public water supply shall be used unless the Water Quality Division is first supplied with an analyses for approval. Waters that originate from other than an approved public water supply shall not be used unless first approved.

6 of 6. An unlimited number of similar anodes may be installed in the same township under this permit. This authorization applies to Pacificorp and any of its subsidiaries operating in Wyoming. All anodes installed under this permit shall have similar construction specifications.

RL/nc 21685.LTR

cc: Jake Strohman, DEQ/WQD

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

PERMIT NO. 92-171

BRADLEY SEPTIC SYSTEM
(Name of Facility)

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

Mark Bradley
P.O. Box 1000
Sturgis, South Dakota 57785

to construct, install or modify a septic disposal facility according to the procedures and conditions of the application No. 92-171. The facility is located in Section 31, Township 53 North, Range 60 West, in the County of Crook 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: 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

6-17-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

SCF/pr:06/09/92

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 92-172
SEE SPECIAL CONDITIONS

WYOMING LEAN PORK LLC FARROWING SITE
(Name of Facility)

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

Wyoming Lean Pork LLC

1418 25th Street

Columbus, NE 68601

to construct a livestock wastewater collection, storage, and land application facility according to the procedures and conditions of the application No. 92-172. The facility is located in SE¼ Section 31 T26N R67W in the County of Platte, 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: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, Cheyenne, WY 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

9-21-92
Date of Issuance

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

SPECIAL CONDITIONS PERMIT TO CONSTRUCT 92-172

1 of 9. This system is permitted under Section 5 of Chapter XI DEQ/WQD regulations as an alternate technology. Large single cell anaerobic livestock waste treatment facilities such as this one will be evaluated using the "Livestock Waste Facilities Handbook" published by the Midwest Plan Service, Iowa State University, Ames, Iowa.

2 of 9. The waste water lagoon shall be lined with a minimum 6" thick layer of soil mixed with 4 pounds per square foot of bentonite as recommended by Grand Island Testing Laboratories. The bentonite liner shall be protected from erosion by installation of a erosion resistant surface of fly ash mixed with the native soil. The fly ash surfacing shall be a minimum of 6 inches thick with a content of 18 pounds of fly ash per square foot. Extreme care should be taken to avoid damaging the bentonite liner during the application of the fly ash stabilized layer. Any of the bentonite liner damaged must be removed and replaced with a premixed soil bentonite mixture.

3 of 9. While this design will probably result in a liner that meets the requirements of Chapter XI, Section 28(f)(i), this facility is being permitted under the provisions of Chapter VIII Section 4(d)(6) which states "A discharge which results in concentrations in excess of standards shall be permitted if post-discharge water quality can be returned to water quality standards or better quality."

4 of 9. The two irrigation wells in Section 31 T26N R67W and all production wells constructed as a part of this facility must be measured for drawdown, static water level after being idle for a minimum of 1 hour, and sampled for ammonia and nitrates. The idle time before the static water level should be recorded. Each well should be sampled for ammonia and nitrates. Water level measurements and water analysis shall be done in August and March before any irrigation operations begin for the season. Annual reports shall be submitted to the DEQ/WQD Groundwater Section in November of each year. The report shall reference this permit number. The report shall include a 1"=500ft map that shows the location and

surface elevation in msl of all wells and the physical location and identification of all other facilities on the site. The purpose of this testing and reporting is to demonstrate compliance with the provisions of Chapter VIII that no off site impact be allowed.

5 of 9. If nitrates exceed 10 ppm or ammonia 0.5 ppm in any sample, all the wells shall be immediately resampled. Within 60 days of an exceedence of nitrate or ammonia standards a complete report, including the resampling results, shall be submitted to the DEQ/WQD Groundwater Section. The facility shall be permitted to continue operation as long as it is demonstrated that no offsite impact to groundwater quality has occurred.

6 of 9. When use of the facility is discontinued for more than 180 days, the lagoon shall be emptied and the sludges utilized as fertilizers at application rates that do not exceed common agricultural practices. If for some reason all the liquid leaves the lagoon, the sludges shall be removed immediately. If groundwater standards for any parameter listed for Class 1 water in DEQ/WQD Chapter VIII are exceeded as a result of this operation, the production wells must be operated after closure of the facility until the aquifer is restored to Class 1 standards.

7 of 9. Land application of the liquids from the lagoon shall be permitted in Sections 31 and 32 of T26N R67W. The existing irrigation wells must be protected from back flow while the wastewater is being pumped into any irrigation system. Only two methods are acceptable; either the irrigation well must be protected by a reduced pressure back flow device, or the system designed so that connecting the effluent pump requires physically disconnecting the irrigation well or wells connected to the system. The simple irrigation check valve is not acceptable as a back flow device according to Chapter XI of DEQ/WQD regulations.

8 of 9. Land application rates shall be limited in both volume of water applied and total organic and mineral loading.Not more than 36" of water including precipitation shall be applied annually, measured from November 1 to October 31.

9 of 9. The nitrate levels in the soil shall be measured annually after crops are harvested. The total of nitrogen available in the soil after harvest plus nitrogen applied during the following growing year shall not exceed 150 lbs/acre/year. The nitrogen applied includes commercial fertilizers, agricultural wastes spread mechanically, and land application of liquids through the irrigation system. If directly edible crops such as dry beans are to be grown, compliance with Chapter XI, Section 55(c)(i) criteria must be verified by weekly testing of irrigation water quality. Records shall be maintained available for inspections by DEQ/WQD for a period of five years of the amount of effluent land applied through each pivot point and the results of soil and water tests.

LBH/jn
22981.ltr

cc: Kennedy Engineering
Lidstone and Anderson
Randy Marble, Town of Wheatland

PERMIT TO CONSTRUCT

[X] New Permit No. 92-173R

[ ] Renewal

[ ] Modified

Westridge Estates Phase III Subdivision
(Name of Facility)

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

SAS and Associates

P.O. Box 314

Rock Springs, WY 82902

to construct a sewage collection and water distribution system for a new subdivision facility according to the procedures and conditions of the application No. 92-173R. The facility is located in W½, Sec. 33, T19N, R105W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

7-7-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

BL/jyi

92-174 ROBERTS

STAR VALLEY RANCH RV PARK

DATE	ACTION	60-DAYS
06/11/92	UR	08/11/92
7/23/92	RS	
~~8-10-92 (add'l info)~~	~~UR~~ cancelled	~~10-10-92~~

LAND APPLICATION PERMIT

[X] New

[ ] Renewal

[ ] Modified

PERMIT NO. 92-175

SEE SPECIAL CONDITIONS

KUEHNE ROAD APPLICATION
(Name of Facility)

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

Kissack Water & Oil Service, Inc.
P.O. Box 9
Rozet, WY 82727

to land apply waste crude oil and sludges according to the procedures and conditions of the application No. 92-175. The application site is located in Sections 13 and 25, T51N, R70W, and Section 18, T51N, R69W in the County of Campbell in the State of Wyoming. This permit shall be effective until November 1, 1992.

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

6-23-92
Date of Issuance

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

DRM/pr:6/15/92

LAND APPLICATION SPECIAL CONDITIONS

1 of 5. Crude oil stained soils shall be applied uniformly. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist. Crude oil stained soils shall not be applied during the period from November 1 to April 10.

2 of 5. The application site slope shall not exceed eight percent (8%) for vehicular application.

3 of 5. Crude oil stained soils application shall be terminated with 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

4 of 5. Any waste crude oil and sludge application after November 1, 1992 must be repermitted.

5 of 5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, telephone number 307/672-6457, to arrange a field inspection prior to initiation of work. The District Office should be notified at least 48 hours in advance of discharges and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

PERMIT TO CONSTRUCT

[X] New

PERMIT NO. 92-176

[ ] Renewal

[ ] Modified

SALT CREEK OIL SEEP - CONTAINMENT STRUCTURE
(Name of Facility)

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

Amoco Production Company
P.O. Box 10
Midwest, Wyoming 82643

to construct, install or modify an oil seep containment facility according to the procedures and conditions of the application No. 92-176. The facility is located in NW/NW Section 25, Township 40 North, Range 79 West, in the County of Natrona 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: 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

8-14-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

SCF/pr:8/04/92

PERMIT TO CONSTRUCT

[X] New Permit No. 92-177R

[ ] Renewal

[ ] Modified

Clearview Water Meter Installation Project
(Name of Facility)

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

Clearview Improvement & Service District

P.O. Box 2634

Rock Springs, WY 82901

to install water meters and replace sections of a water supply line according to the procedures and conditions of the application No. 92-177R. The facility is located in the SE¼ of Sec. 32, T19N, R105W 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

7/17/92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

SR/jyi

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-178
SPECIAL CONDITIONS

Casper/Hyview Drive Watermain Improvements

This permit hereby authorizes the applicant:

City of Casper
200 North David
Casper, WY 82601

to construct, install or modify watermain replacement according to the procedures and conditions of the application number 92-178. The facility is located in NW 1/4 Section 17 T33N R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

7-1-92
Date of Issuance

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

SPECIAL CONDITIONS

1 of 1. The use of two valves, one on either side of the Tee to the fire hydrant, in lieu of a valve at the hydrant is approved.

LBH/bb/21923.doc

LAND APPLICATION PERMIT

[X] New

[ ] Renewal

[ ] Modified

PERMIT NO. 92-179

SEE SPECIAL CONDITIONS

OSAGE FIELD ROAD APPLICATION
(Name of Facility)

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

Graham Royalty Ltd
P.O. Box 336
Osage, Wyoming 82723

to land apply waste crude oil and sludges according to the procedures and conditions of the application No. 92-179. The application site is located in Sections 13 and 24, T46N, R64W, Section 19, T46N, R63W in the County of Weston in the State of Wyoming. This permit shall be effective until November 1, 1992.

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

7-1-92
Date of Issuance

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

DRM/pr:6/25/92

LAND APPLICATION SPECIAL CONDITIONS

1 of 5. Crude oil stained soils shall be applied uniformly. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist. Crude oil stained soils shall not be applied during the period from November 1 to April 10.

2 of 5. The application site slope shall not exceed eight percent (8%) for vehicular application.

3 of 5. Crude oil stained soils application shall be terminated with 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

4 of 5. Any waste crude oil and sludge application after November 1, 1992 must be repermitted.

5 of 5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, telephone number 307/672-6457, to arrange a field inspection prior to initiation of work. The District Office should be notified at least 48 hours in advance of discharges and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 92-180R

North Evanston Elementary School Modular Classroom Sewer
(Name of Facility)

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

Uinta County School District No. 1

ATTN John Albrecht

P.O. Box 6002

Evanston, WY 82931-6002

to construct a sanitary sewer line to a modular classroom according to the procedures and conditions of the application No. 92-180R. The facility is located in the NE¼ of the SE¼, Section 16, T15N, R120W in the County of Uinta, 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

8-14-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

SR/jyi

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: **UIC 92-181**
Reference Number: **UIC 91-332**
UIC Class: **5X26**

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),

Union Pacific Railroad
1416 Dodge Street
Omaha, Nebraska 68179
Attn: Richard L. Eades, Director of Environmental Remediation
(402) 271-4922

is authorized to operate

a diesel recovery system and groundwater remediation injection wells

located in the NW¼ NE¼, SW¼ NE¼, SE¼ NE¼ Section 22, Township 18 North, Range 107 West, of the 6th Principal Meridian; according to the procedures and conditions of application #91-332 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

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

6-22-92
Date

Director
Department of Environmental Quality
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002

6-22-92
Date

Revised June 22, 1992

A. Discharge (Injection) Zone and Area of Review

Discharge Zone

This injection well is authorized to inject into an unnamed alluvium above the Tertiary wilkins peak member of the Green River Formation which is found at this location from 0 to 30 feet below the ground surface.

Area of Review

The facility authorized by this permit is located in:

Township 18 North, Range 107 West, 6th Principal Meridian
Section 22: NW¼ NE¼, SW¼ NE¼, SE¼ NE¼

The Area of Review around this facility is legally described as:

Township 18 North, Range 107 West, 6th Principal Meridian
Section 17: S½ SE¼, SE¼ SW¼
Section 22: NE¼, E½ NW¼, N½ SE¼
Section 23: W½ NW¼, NW¼ SW¼

B. Groundwater Classification

The groundwater in the unnamed alluvium above the Tertiary wilkins peak member of the Green River Formation is classified as class III under Chapter VIII of Wyoming Water Quality Rules and Regulations (April 9, 1980). This classification was made because:

a. The groundwater in this formation meets all of the quality standards set forth in Chapter VIII for class III water;

Groundwater of class III shall not be degraded so as to make it unusable as a source of water for this purpose.

C. Authorized Operations

The permittee is authorized to inject 1,714 barrels per day, (72,000 gallons per day) of wastewater into the roundhouse area infiltration gallery and 1,714 barrels per day, (72,000 gallons per day) of wastewater into the diesel storage area infiltration gallery as described:

The wastewater is groundwater produced by an oil recovery system built for the purpose of removing free oil from the aquifer. Prior to injection, this water shall be treated to remove all traces of free oil.

The permittee is authorized to inject at no more than atmospheric pressure as measured at the wellhead.

Hazardous Waste

This permit does not allow for the injection of any hazardous waste as defined by 40 CFR 261. Injection of any substance defined as hazardous waste, whether hazardous by listing or by characteristic 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 the permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), and practice, 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:

A monitoring program is required to insure knowledge of migration and behavior of the discharge. The permittee is required to provide detailed information concerning the quality of the groundwater in the vicinity of this injection well as follows:

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (TRV*)
GR-1	Quarterly	EPA Method 610	Napthalene	.140
GR-13	Annually	EPA Method 610	Napthalene	.140
GR-14	Annually	EPA Method 610	Napthalene	.140
GR-15	Annually	EPA Method 610	Napthalene	.140
GR-16	Quarterly	EPA Method 610	Napthalene	.140
GR-18	Quarterly	EPA Method 610	Napthalene	.140
GR-20	Annually	EPA Method 610	Napthalene	.140
GR-21	Annually	EPA Method 610	Napthalene	.140
GR-23	Annually	EPA Method 610	Napthalene	.140
GR-24	Annually	EPA Method 610	Napthalene	.140
GR-28	Quarterly	EPA Method 610	Napthalene	.140
GR-34	Quarterly	EPA Method 610	Napthalene	.140
GR-36	Quarterly	EPA Method 610	Napthalene	.140
GR-46	Quarterly	EPA Method 610	Napthalene	.140
GR-47	Quarterly	EPA Method 610	Napthalene	.140
GR-50	Quarterly	EPA Method 610	Napthalene	.140
GR-1	Quarterly	EPA Method 610	2-Methylnapthalene	

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (TRV*)
GR-13	Annually	EPA Method 610	2-Methylnapthalene	
GR-14	Annually	EPA Method 610	2-Methylnapthalene	
GR-15	Annually	EPA Method 610	2-Methylnapthalene	
GR-16	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-18	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-20	Annually	EPA Method 610	2-Methylnapthalene	
GR-21	Annually	EPA Method 610	2-Methylnapthalene	
GR-23	Annually	EPA Method 610	2-Methylnapthalene	
GR-24	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-28	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-34	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-36	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-46	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-47	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-50	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-1	Quarterly	EPA Method 418.1 TPH		10
GR-13	Annually	EPA Method 418.1 TPH		10
GR-14	Annually	EPA Method 418.1 TPH		10
GR-15	Annually	EPA Method 418.1 TPH		10
GR-16	Quarterly	EPA Method 418.1 TPH		10
GR-18	Quarterly	EPA Method 418.1 TPH		10
GR-20	Annually	EPA Method 418.1 TPH		10
GR-21	Annually	EPA Method 418.1 TPH		10
GR-23	Annually	EPA Method 418.1 TPH		10
GR-24	Annually	EPA Method 418.1 TPH		10
GR-28	Quarterly	EPA Method 418.1 TPH		10
GR-34	Quarterly	EPA Method 418.1 TPH		10
GR-36	Quarterly	EPA Method 418.1 TPH		10
GR-42	Annually	EPA Method 418.1 TPH		10
GR-43	Annually	EPA Method 418.1 TPH		10

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (TRV*)
GR-44	Annually	EPA Method 418.1 TPH		10
GR-45	Annually	EPA Method 418.1 TPH		10
GR-46	Quarterly	EPA Method 418.1 TPH		10
GR-47	Quarterly	EPA Method 418.1 TPH		10
GR-50	Quarterly	EPA Method 418.1 TPH		10
GR-10	Monthly	Probe	SWL and FPT	
GR-16	Monthly	Probe	SWL and FPT	
GR-17	Monthly	Probe	SWL and FPT	
GR-18	Monthly	Probe	SWL and FPT	
GR-23	Monthly	Probe	SWL and FPT	
GR-24	Monthly	Probe	SWL and FPT	
GR-26	Monthly	Probe	SWL and FPT	
GR-27	Monthly	Probe	SWL and FPT	
GR-28	Monthly	Probe	SWL and FPT	
GR-34	Monthly	Probe	SWL and FPT	
GR-35	Monthly	Probe	SWL and FPT	
GR-36	Monthly	Probe	SWL and FPT	
GR-37	Monthly	Probe	SWL and FPT	
GR-40B	Monthly	Probe	SWL and FPT	
GR-46	Monthly	Probe	SWL and FPT	
GR-47	Monthly	Probe	SWL and FPT	
GR-48	Monthly	Probe	SWL and FPT	
GR-49	Monthly	Probe	SWL and FPT	
GR-50	Monthly	Probe	SWL and FPT	
GR-51	Monthly	Probe	SWL and FPT	
GR-52	Monthly	Probe	SWL and FPT	
GR-1	Quarterly	Probe	SWL and FPT	
GR-2	Annually	Probe	SWL and FPT	
GR-3	Quarterly	Probe	SWL and FPT	
GR-4	Annually	Probe	SWL and FPT	

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (TRV*)
GR-5	Annually	Probe	SWL and FPT	
GR-6	Annually	Probe	SWL and FPT	
GR-7	Annually	Probe	SWL and FPT	
GR-9	Quarterly	Probe	SWL and FPT	
GR-11	Annually	Probe	SWL and FPT	
GR-12	Annually	Probe	SWL and FPT	
GR-13	Annually	Probe	SWL and FPT	
GR-14	Annually	Probe	SWL and FPT	
GR-15	Annually	Probe	SWL and FPT	
GR-19	Annually	Probe	SWL and FPT	
GR-20	Annually	Probe	SWL and FPT	
GR-21	Annually	Probe	SWL and FPT	
GR-25	Annually	Probe	SWL and FPT	
GR-29	Annually	Probe	SWL and FPT	
GR-30	Annually	Probe	SWL and FPT	
GR-31	Annually	Probe	SWL and FPT	
GR-32	Annually	Probe	SWL and FPT	
GR-33	Annually	Probe	SWL and FPT	
GR-38	Annually	Probe	SWL and FPT	
GR-40B	Annually	Probe	SWL and FPT	
GR-41	Annually	Probe	SWL and FPT	

*All chemical concentrations in this permit are expressed in mg/l unless otherwise noted. pH is always expressed in standard units and conductivity is expressed in mmhos/meter or umhos/cm. TPH stands for Total Petroleum Hydrocarbons, SWL stands for Static Water Level, and FPT stands for Free Product Thickness. Chemical Analyses are not required if free product exists in the well at the time of sampling. In the later stages of cleanup, UPRR may apply to drop some of these wells from the monitoring and analytical list above based on clean results shown by past samples.

The above Target Restoration Values (TRV) shall be reached when the site is fully remediated. The permittee may apply in the future to change the TRV for Napthalene based on changes in regulations or further site investigation and assessment of human risk. No TRV for 2-Methylnapthalene has been set since there is little, if any, data on the affect of this chemical on humans or animals. The permittee may apply to discontinue specific parameters from the

monitoring list after demonstrating that those parameters have met the above TRV for three consecutive monitoring events. In the event that future regulations are promulgated that would require lower TRV's on this site, the Water Quality Division may set such lower TRV's by letter under this same permit.

The Target Restoration Value (TRV) for Free Product Thickness is zero (as measured by an oil/water interface probe with an accuracy of +/- .01 feet) in all wells. When monitoring for Free Product, the permittee shall check for both floating oil and sinking petroleum (free phased product with a specific gravity greater than water).

G. Requirements for Monitoring the Discharge

The permittee shall monitor the operation of the oil recovery system on a weekly basis. This monitoring shall include a recording showing the amount of oil recovered for each week of operation, and the amount of water injected for each week of operation.

The permittee shall monitor the quality of the injectate fluid on the following schedule. The following parameters shall be analyzed by the listed methods monthly:

PARAMETER	APPROVED METHOD NUMBER	SCHEDULE	UCL*
Napthalene	EPA Method 610	Quarterly**	.20
2-Methylnapthalene	EPA Method 610	Quarterly**	
TPH	EPA Method 418.1	Quarterly**	100
Static Water Level	Probe	Monthly*	
Free Product Thickness	Probe	Monthly*	

*All chemical concentrations in this permit are expressed in mg/l unless otherwise noted. pH is always expressed in standard units and conductivity is expressed in mmhos/meter or umhos/cm. The Static Water Level and Free Product Thickness are to be measured in each trench observation well installed in either recovery trench and in the oil recovery sump itself.

**For the first 6 months of operation, these analyses shall be done monthly. After that time, quarterly analyses may start providing that none of the UCL's in this section have been violated.

The above Upper Control Limit (UCL) is not to be exceeded in any sample. Exceedance of the this is a violation of this permit and shall require corrective action.

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 abandoned 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,

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. The permittee shall provide a quarterly report on this injection. The quarterly report shall include:

a. A tabulation showing the amount of oil recovered and the amount of water injected for each week operation for the quarter being reported;

b. A graph showing the amount of oil recovered by the system from the date when the system went into operation through the current quarter. This graph shall show the amount recovered per week and the cumulative amount of oil recovered to date;

c. A graph showing the amount of water injected by the system from the date when the system went into operation through the current quarter. This graph shall show the amount of water injected per week and the cumulative amount of water injected to date;

d. The results of all required Napthalene, 2-Methylnapthalene, and TPH analyses for the quarter being reported;

e. A graph for each required monitor well showing the levels of Napthalene, 2-Methylnapthalene, TPH, free product, and static water level from the date when the system went into operation through the current date.

f. Static water contour maps for the immediate area of each injection point showing the groundwater table for each month of the operation.

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 which 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

There are no Mechanical Integrity Requirements for this permit.

L. Abandonment

The permittee shall notify the administrator at least 80 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:

After the monitoring wells, injection galleries, and oil recovery sumps associated with this project 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 WQD.

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 permittee 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 a form approved by the director, to close, plug and abandon the discharge operation in a manner prescribed by the director.

Union Pacific Railroad has not been required to submit financial responsibility information as part of this permit.

O. Special Measures the Director Finds Necessary

The permittee shall submit a revised "Operation and Maintenance Manual" (O&M Manual) to the Water Quality Division for approval within 90 days of installation of this system. After approval of this O&M Manual, the permittee shall abide by all requirements of that manual. Failure to provide proper maintenance of the system according to the approved O&M Manual is a violation of this permit.

Permit UIC 91-332 covering the operation of the two oil recovery sumps covered by this permit is hereby canceled. All requirements covered in permit UIC 91-332 have been incorporated into this permit.

Any spent acid produced during routine stimulation and cleanout of the infiltration galleries, oil recovery sumps or other piping shall be analyzed by EPA Methods 624 (Aromatic Halogenated and Non-halogenated Hydrocarbons) for pH, Ignitability, and for Arsenic, Barium, Chromium and Lead prior to disposal. Disposal shall be done only after obtaining Water Quality Division approval for the disposal method to be used.

The permittee shall control the groundwater gradient around the points of injection and withdrawal so that contamination does not migrate off site. It is a violation of this permit to allow contamination to migrate off site. "Off site" is defined for this permit as any area outside the existing contaminate plume. If at any time the permittee becomes aware that gradients are not being controlled, this fact must be reported under section I-6 of this permit. The permittee must take such measures as are necessary to correct this situation, including the shut-down of the injection if necessary.

The permittee shall provide the exact latitude and longitude for each of the monitor wells being monitored by this permit and for the center of the injection facility. These figures shall be accurate to the nearest one second of latitude and longitude.

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.

RL/jn
21788.LTR

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-182
SPECIAL CONDITIONS

Casper Flying J Travel Plaza

This permit hereby authorizes the applicant:

Flying J Inc.
50 West 990 south
Brigham City, UT 84302

to construct, install or modify water and sewer lines, oil water separator, and parking lot runoff retention pond according to the procedures and conditions of the application number 92-182. The facility is located in SW 1/4 Section 1 T33N R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

7/15/92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

SPECIAL CONDITIONS

1 of 4. The oil water separator must be connected to the sanitary sewer as noted in Addendum No. 3. The stop and waste valve for the sprinkler system shall be installed downstream of the double check valve.

2 of 4. The water hydrants shown in the R.V. Dump Detail 7/G4.1 are unacceptable due to potential backflow situations. Post type hydrants with built in backflow prevention are made specifically for RV Dump Station use. The hydrants at the RV dump station must include backflow prevention and have hose ends designed to prevent connection to the RV potable water systems. Frost free type hydrants can not be used on this site. Any hydrant that could possibly be used to resupply a RV should have a built-in backflow prevention device.

3 of 4. The storm water retention pond must be operated with the lower drain line normally closed. Any hydrocarbon accumulation on the surface must be immediately removed mechanically or by blotting with absorbent pads.

4 of 4. An operation and maintenance manual for the storm water retention pond and the oil-water separator must be submitted before the store is opened for business. This manual must address the daily and weekly activities required. Merely copying the manufacturer's literature for the oil water separator will not suffice.

LBH/nc 22104.LTR
cc: Chris Wright, Hansen & Associates, 438 North Main, Brigham City, UT 84302

To: **FILE 92-182**

From: Ronald L. Ewald

Date: November 4, 1992

Subject: Operation & Maintenance (O&M) manuals for the Casper Flying J Travel Plaza Storm Water Retention Pond and Oil-Water Seperator

Remarks: The O&M manuals for the storm water retention pond and the oil-water seperator have been received (October 14, 1992) and reviewed by the DEQ Water Quality Division. The O&M manuals as submitted satisfy the reguirements of the "Permit To Construct" number 92-182.

This material is being place in the SE District Engineering Files in the Cheyenne office in the file named:

Flying J - Casper
Natrona County

cc: Archive file # 92-182

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration	Air Quality Division	Land Quality Division	Solid Waste Management Program	Water Quality Division
(307) 777-7937	(307) 777-7391	(307) 777-7756 FAX (307) 634-0799	(307) 777-7752	(307) 777-7781 FAX (307) 777-5973

CERTIFIED P 404 490 765

July 23, 1992

Ward Rikala
CENEX
P.O. Box 21479
Billings, MT 59104

RE: Permit to Construct Application Number 92-183
Murphy Dome Road Application

ACTION: Not Authorized

Dear Mr. Rikala:

The waste oil and water you have proposed to road apply on Kirby Creek Land and Livestock roads has failed the regulatory limits for arsenic and lead and is close to the limits for barium and chromium. Based upon the toxicity characteristic leaching procedure (TCLP) analysis, the waste tested is defined as a hazardous waste and cannot be road applied. Department of Environmental Quality, Water Quality Division (DEQ/WQD) policy states that neither oil and gas field exploration and production exempt wastes nor non exempt wastes which fail to meet any of the TCLP regulatory levels will be approved for land application.

Chapter III, Section 12, states that the DEQ/WQD administrator may deny a permit application for justifiable reasons necessary to carry out the provisions of the Environmental Quality Act. Therefore, your application to road apply waste oil is denied and your application forms returned to you. Please note that Section 12 also states, "In the case of denial of a permit by the administrator, the applicant, if he so desires, may request a hearing before the Environmental Quality Council. A request for hearing shall be made in writing within 60 days of receipt of notification of the denial to the director and shall state the grounds for the request. Any hearing shall be conducted pursuant to the regulations of the department.

Please contact Mike Young with the Department of Environmental Quality, Solid Waste Management Division at (307) 332-6924 for information regarding disposal options.

Please contact Jeff Hermansky, DEQ/WQD, Northwest District Supervisor at 250 Lincoln, Lander, WY 82520 (307)332-3144, if you have any questions regarding the permit denial.

Sincerely,

Bill Garland
Program Administrator

BG/JH/jyi
xc: Mike Young, DEQ/SWMD, Lander
Larry Robinson, DEQ/WQD, Cheyenne
IPS, Cheyenne
file (2)

RECEIVED
JUL 27 1992
WATER QUALITY DIVISION

PERMIT TO CONSTRUCT

[X] New PERMIT NO. 92-184

[ ] Renewal

[ ] Modified

SUNDANCE WEST SIDE SEWER EXTENSION
(Name of Facility)

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

Town of Sundance
213 Main Street
Sundance, Wyoming 82729

to construct, install or modify a sanitary sewer line facility according to the procedures and conditions of the application No. 92-184. The facility is located in Section 23, Township 51 North, Range 63 West, in the County of Crook 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: 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

7-10-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

SCF/pr:6/30/92

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-185

WININGER SUBDIVISION WATER AND SEWER EXTENSION

This permit hereby authorizes the applicant:

Romsa Construction Corporation
915 Shoshoni
Cheyenne, WY 82009

to construct, install, or modify a public water and sewer system extensions in the Wininger Subdivision according to the procedures and conditions of the application number 92-185. The facility is located in SW, Section 27, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

Laurence Robinson
for Administrator
Water Quality Division

Director
Department of Environmental Quality

9-14-92
Date of Issuance

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

RE/mad 23212.LTR

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO.92-186
See Special Conditions

Garlic Sales Monitor Wells

This permit hereby authorizes the applicant:

Garlic Sales & Service Company
P O Box 1910
Casper, WY 82602

to construct, install or modify a system of monitor wells according to the procedures and conditions of the application number 92-186. This system of monitor wells is located in Section 32, NE¼, NE¼, T34N, R80W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of (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: UIC Program Supervisor, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

7-1-92
Date of Issuance

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

Special Conditions for Permit to Construct 92-186

1 of 11. 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 92-186. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).

2 of 11. 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 the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.

3 of 11. 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 WQD.

4 of 11. 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 using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.

5 of 11. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells shall be installed to define the extent of the contamination.

6 of 11. 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. The borehole diameter shall be at least 4 inches larger in diameter than the casing diameter;

b. The screened interval shall extend at least 2 feet above the highest expected groundwater level and bottom at the carlise shale contact. Factory slotted casing is recommended for the perforated interval;

c. If PVC casing is used, the casing shall be installed using mechanical connectors without the use of solvents or glues to hold the casing sections together. This mechanical connection may use set screws, threads, or other types of couplings;

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 top and bottom cap shall be installed to prevent sediment and surface water from entering the well;

f. The monitoring well shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;

g. A seal of bentonite or bentonite grout is required from the surface to a foot or two above the top perforation. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal. Protective casing shall be cemented into a sloping concrete cap; and

h. All monitor wells shall be designed to contain a minimum of 3 feet of water at all times of the year.

7 of 11. DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of monitor wells and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.

8 of 11. Within 90 days of the issuance of this permit, a report of investigation shall be submitted to WQD. This report shall contain at a minimum:

a. a chronology of events leading up to the investigation;

b. A site map showing the physical features, well locations and sea level elevations;

c. The permittee shall provide the exact latitude and longitude for each of the monitor wells being constructed under this permit. These figures shall be accurate to the nearest one second of latitude and longitude.

d. Final location, construction details and logs of monitor wells;

e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;

f. Water level and product thickness measurements;

g. Sample collection procedures;

h. Sampling analytical results;

i. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations;

j. A potentiometric surface map showing the direction of groundwater movement; and

k. Interpretation of the date and conclusions including recommended remedial measures.

9 of 11. Proper well evacuation shall include removal of a minimum of 3 casing volumes prior to sampling or pumping the well dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

10 of 11. All monitor wells associated with this facility shall be sampled by the permittee and the groundwater analyzed quarterly for the following listed parameters:

a. Phenolics using EPA Method 420.2.

b. Total Petroleum Hydrocarbons using EPA Method 418.1.

c. Arsenic, Barium, Cadmium, Lead, Mercury, Silver, and Selenium, using EPA 200 series methods.

d. After the first monitoring event, the WQD may substitute a shorter list for the above parameters, depending on the results of the first monitoring event. WQD may substitute less expensive methods for the above listed methods depending on the results of the first monitoring.

e. The results of these analyses shall be submitted to the Cheyenne office by the last day of the month following the end of each quarter. The first set of results are due by the last day of August, 1992.

11 of 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.

RL/bb/21921.doc

cc: Jake Strohman, DEQ/WQD

PERMIT TO CONSTRUCT

[X] New Permit No. 92-187RR

[ ] Renewal

[ ] Modified

The Western Sugar Company, Lovell Factory
(Name of Facility)

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

The Western Sugar Company

400 Great Western Avenue

Lovell, WY 82431

to construct an aerated primary treatment and spray ponds, interior dikes in existing ponds, and chemical feed system according to the procedures and conditions of the application No. 92-187RR. The facility is located in N 1/2 NW 1/4 Sec 15, T56N, R96W in the County of Big Horn, 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

8-27-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

JH/jyi

IPS

MEMORANDUM

TO: IPS Permit to Construct File (#92-188)

FROM: Kevin Frederick

RE: Permit to Construct #92-188

DATE: January 11, 1993

Application for Permit to Construct #92-188 (Wyoming Refining Company application for "As-Built" approval for installation of recovery well Grayco 1A) has been ~~denied and~~ pb withdrawn.

SE/WRC/92-188.MEM

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration	Air Quality Division	Land Quality Division	Solid Waste Management Program	Water Quality Division
(307) 777-7937	(307) 777-7391	(307) 777-7756 FAX (307) 634-0799	(307) 777-7752	(307) 777-7781 FAX (307) 777-5973

September 15, 1992

Mr. J.L. Jackson
Environmental Manager
Wyoming Refining Company
P.O. Box 820
Newcastle, WY 82701

RE: "As-Built" Permit Application: Grayco #1A Recovery Well (WQD Ref. No. 92-188)

Dear Mr. Jackson:

This letter is in response to your request for "as-built" approval of the groundwater recovery well installed at Wyoming Refining Company's Newcastle refinery. After reviewing the submittal, and receiving additional information from you via our conversation on August 20, the Wyoming Department of Environmental Quality's Water Quality Division cannot accept the construction of this well as adequate until the following requirements are met:

1. Permit applications for recovery well systems must be signed by a Wyoming registered Professional Engineer. The design and construction plans and details must also be stamped and signed by a Wyoming registered Professional Engineer.

2. The WQD cannot allow effluent from the recovery well to be discharged into the wastewater pond unless WRC can demonstrate that:

October, 1992
CLEAN WATER MONTH

a. the treatment facility has the capacity to treat the increased organic and hydraulic loading from the recovery well, and;

b. discharge from the ponds into groundwater does not cause a violation of WQD groundwater quality standards.

WRC must submit documentation that effluent entering the ponds from the recovery well system, as well as effluent within the ponds themselves, will not lead to a violation of State groundwater standards.

3. The totalizing flowmeter for this well must be isolated such that it measures only that fluid recovered from the well. To do so totalizing flowmeters must be installed in: the discharge line from Sump (Recovery Well) #7; the discharge line from Sump (Recovery Well) #3, and the discharge line from the West Bank French Drain system at such points that individual flows from each can be measured separately. "As-built" drawings must be submitted upon completion of these installations. The above-mentioned flowmeters must be winterized such that they are operable in extreme weather conditions.

4. WRC must submit in its application a plan to monitor the operational effectiveness of this system. In this plan, WRC should consider installing and monitoring additional piezometers for depth to water and product thickness measurements on a monthly basis. A potentiometric map should be developed monthly from these measurements to illustrate the cone of depression associated with this recovery well. The plan should include recording and reporting situations requiring system downtime, including: date, start and finish of downtime, reason for downtime, actions taken, and the location, volume and disposal destination of any flowmeter or discharge line bypasses which have occurred.

5. To prevent accidental discharge to the surface, either remove, or install a lock on the 1" gate valve in the discharge line between Grayco #1A and the West Bank French Drain discharge line.

Please be reminded that construction of this facility without a Water Quality Division Permit to Construct constitutes a violation of the Environmental Quality Act and is punishable with fines not to exceed $10,000 per day of violation.

Also, please note that WRC's application for this Permit to Construct will remain open and on file for a period of six months from the date you receive this letter. Failure to comply with WQD's request for the above-mentioned additional information by that time will result in your application being considered inactive and returned to you.

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

Sincerely,

Kevin D. Frederick

Kevin D. Frederick
Supervisor
Groundwater Pollution Control Program

KDF/jn
23176.ltr

cc: Jake Strohman, WQD, Cheyenne
Bill Garland, WQD, Cheyenne
Bill Flynn, Attorney General's Office, Cheyenne
File: 92-188

PERMIT TO CONSTRUCT

[X] New Permit No. 92-189

[ ] Renewal

[ ] Modified

WTD Sewer, Meeteetse
(Name of Facility)

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

Wyoming Transportation Department
P.O. Box 461
Basin, WY 82410

to construct a 3550 feet of 8" PVC sewer with 10 manholes and connect to existing system according to the procedures and conditions of the application No. 92-189. The facility is located in S½ SE¼ and E½ SW¼ Sec. 4 and NE¼ NE¼ Sec. 9, 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

7-30-92
Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

[X] New Permit No. 92-190

[ ] Renewal

[ ] Modified

Rock Springs Public Utilities Repair
(Name of Facility)

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

City of Rock Springs

P.O. Box 698

Rock Springs, WY 82901

to replace and modify the existing wastewater collection and water distribution systems according to the procedures and conditions of the application No. 92-190. The facility is located in the SE¼ of Sec. 26 and NE¼ of Sec. 35, T19N, R105W 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

7/15/92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

SR/jyi

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 92-191R

Rock Springs Combined Utility Repair - AML Project 6A-5-1-A
(Name of Facility)

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

City of Rock Springs
212 D Street
Rock Springs, WY 82901

to replace and upgrade damaged and deteriorated waterlines and sewerlines according to the procedures and conditions of the application No. 92-191R. The facility is located in the SW¼ of Section 36, T19N, R105W and NW¼ of Section 1, T18N, R105W 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

7-30-92
Date of Issuance

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

SR/jyi

PERMIT TO CONSTRUCT

[X] New Permit No. 92-192R

[ ] Renewal

[ ] Modified

Park County Ready-Mix Wash Pits
(Name of Facility)

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

Park County Ready-Mix

P.O. Box 296

Cody, WY 82414

to construct two settling and one supply pond for aggregate wash plant according to the procedures and conditions of the application No. 92-192R. The facility is located in SW¼ Section 17 and SE¼ Section 18, T53N, R101W 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

8-14-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

JH/jyi

87

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration	Air Quality Division	Land Quality Division	Solid Waste Management Program	Water Quality Division
(307) 777-7937	(307) 777-7391	(307) 777-7756 FAX (307) 634-0799	(307) 777-7752	(307) 777-7781 FAX (307) 777-5973

August 24, 1993

Mayor Darrell L. Offe
P.O. Box 667
Guernsey, WY 82214

RE: **Preliminary Report: Groundwater Quality for the Wastewater Treatment Facility, DEQ/WQD REF. NO. 92-194**

Dear Mayor Offe:

The Department of Environmental Quality, Water Quality Division (DEQ/WQD) has reviewed the referenced report. Comments and recommendations are summarized on the enclosed Groundwater Pollution Control (GPC) Program review form. Thank you for your cooperation. If you have any questions regarding this review, please contact us at (307)777-7781

Sincerely,

Phillip Stump

Phillip Stump
Senior Analyst, GPC Program
Water Quality Division

Gary Steele

Gary Steele, P.E.
District Engineer
Water Quality Division

PS/GS/nc 33948.LTR
Enclosures: Groundwater Section Review Form
cc: File: 1993 GPC Review Forms
Kevin Frederick, Supervisor, GPC Program, WQD
GWWT-REV.LTR

GROUNDWATER SECTION REVIEW OF PROPOSALS/PLANS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Groundwater Quality Monitoring

APPLICANT: Town of Guernsey

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 92-194
√ EXISTING **__NEW** **__AS BUILT**

TITLE: "Preliminary Report: Groundwater Quality for the Wastewater Treatment Facility"

__PROPOSAL **__PLANS** **√ REPORT**

DATE ON PROPOSAL/PLANS/REPORT: April 1, 1993

IS THIS REPORT SUBMITTED PURSUANT TO 'CONDITIONS' TO ANY WQD PERMIT?

NO__ **YES √** **Permit No. 92-194**

REVIEWER, DISTRICT ENGINEER: Gary Steele

REVIEWER, GROUNDWATER SECTION: Phillip Stump

DATE OF LAST REVIEW:

DATE OF THIS REVIEW: August 24, 1993

COMMENTS: DISTRICT ENGINEER

I. SUMMARY OF EXISTING FACILITY OPERATIONS

The lagoons were originally designed as a two celled discharging aeration system. The two cells of the system apparently were lined with some type of a soil/clay mixture. The aeration system failed, and the wastewater system was converted to facultative nonaeration nondischarging lagoon system. A third cell was added which appears to be unlined.

It is apparent from the groundwater data submitted that either the liners are leaking or that the system, as currently set up, is not working, and it appears that the groundwater is being impacted.

II. **REQUESTS/REQUIREMENTS/RECOMMENDATIONS:**

In our file, correspondence from Baker & Associates indicated that a report was to be prepared that presents a study of the problems at the facility and offers possible solutions. The report should be submitted to this office for review.

COMMENTS: GROUNDWATER SECTION

I. **SUMMARY OF EXISTING CONTAMINATION**

The groundwater in the vicinity is being impacted. The high ammonia-nitrogen levels measured in Well No. 92-1, and the nitrate-nitrogen levels measured in Well No. 92-3 are of special concern.

It is difficult to determine the groundwater gradient from the static water levels measured during the initial sampling event. The static water levels measured in monitoring wells No. 92-1 and 92-3 are probably being affected by mounding from the adjacent wastewater settling basin. Since the groundwater flow direction may change with varying river stage levels, DEQ/WQD is concerned about the potential for contaminated groundwater to impact adjacent properties.

II. **REQUESTS/REQUIREMENTS/RECOMMENDATIONS:**

The preliminary report failed to address some important issues. To help characterize the potential for groundwater contamination, within 45 days of receipt of this letter, please submit to DEQ/WQD the following:

A. A map identifying all of the existing groundwater supply wells in Section 1, T26N, R66W, and all wells lying north of the river in Section 2, T26N, R66W. Well surveys are done through the State Engineers office; contact that office at (307)777-7354. Please include a legal description, total depth, depth to water, screened interval, and current use (e.g. domestic, stock, etc.) for the wells.

B. The lithologic logs from the boreholes drilled for the existing three monitoring wells.

C. A map of the facility that identifies the property boundaries of the wastewater treatment plant.

The groundwater samples must be taken and submitted on a quarterly basis and analyzed for the following parameters: static water levels, TDS, pH, temperature, nitrate as N, and ammonia as N. After one full year of quarterly

monitoring events, the monitoring schedule may be adjusted by DEQ/WQD. Please perform the next sampling during the coming month and submit the analytical results as soon as they are available to the attention of the S.E. District Supervisor, Groundwater Pollution Control program.

PS/nc 33949.LTR

cc: File: 1993 GPC Review Forms
Kevin Frederick, Supervisor, GPC Program, WQD
Gary Steele, District Engineer
Larry Robinson, Supervisor, District Engineers, WQD

GWWT-REV.FRM

PERMIT TO CONSTRUCT

PERMIT NO. 92-194
See Special Condition

X New
Renewal
Modified

GUERNSEY LAGOON MONITORING WELLS

This permit hereby authorizes the applicant:

Town of Guernsey
81 West Whalen
Guernsey, WY 82214

to construct, install or modify monitoring wells according to the procedures and conditions of the application number 92-194. The facility is located in NE¼ Section 2 T26N R66W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

7-7-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

<u>Condition for Permit to Construct 92-194</u>

1 of 1. The water quality samples taken after completion will be submitted to the Southeast District Supervisor, DEQ/WQD with a brief report by December 1, 1992. The report will include a plan view with the potentiometric surface of the groundwater shown. After review of this report, a long range monitoring plan will be established as a part of this permit.

LBH/jn
22020.LTR

cc: Baker and Associates

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION	ABANDONED MINES	AIR QUALITY	INDUSTRIAL SITING	LAND QUALITY	SOLID & HAZARDOUS WASTE	WATER QUALITY
(307) 777-7758	(307) 777-6145	(307) 777-7391	(307) 777-7368	(307) 777-7756	(307) 777-7752	(307) 777-7781
FAX 777-7682	FAX 634-0799	FAX 777-5616	FAX 777-6937	FAX 634-0799	FAX 777-5973	FAX 777-5973

February 3, 1994

Randy Williams
Little America Refining Company
P.O. Box 510
Evansville, WY 82636

Re: Permit to Construct #92-195RR
As-Built Soil-Vapor Extraction System (Brookhurst Subdivision)
LARCO Refinery, Casper, WY

Dear Mr. Williams:

The Water Quality Division (WQD) has reviewed the referenced As-built Permit to Construct application materials. Comments and requirements are summarized on the enclosed Groundwater Pollution Control (GPC) Program review form.

Please contact me directly should you have any questions.

Sincerely,

Phillip Stump
Phillip Stump
GPC Program Engineer
Water Quality Division

PS/jn - 40540.ltr

enclosures: Groundwater Section Review Form

xc: 1994 Southeast District Review Forms
Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
IPS Section, Cheyenne
Tom Aalto, U.S. EPA Region VIII, Denver

GROUNDWATER SECTION REVIEW OF PROPOSALS/PLANS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002
(307) 777-7781

PROJECT: As-built Soil-Vapor Extraction System (Brookhurst Subdivision)

APPLICANT: Little America Refining Co.
P.O. Box 510
Evansville, WY 82636
(307) 265-2800

APPLICANT'S ENGINEER: Klane F. Forsgren
Sinclair Oil Corporation
550 S. Temple
Salt Lake City, UT 84102
(801) 524-2745

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: **92-195RR**

TITLE: Application for As-built Permit to Construct Soil-Vapor Extraction System

✓ **PROPOSAL** ✓ **PLANS** _ **REPORT**

DATE ON PROPOSAL/PLANS/REPORT: October 7, 1993

IS THIS PROPOSAL SUBMITTED PURSUANT TO 'CONDITIONS' TO ANY WDEQ/WQD PERMIT?

YES_ **NO** ✓

REVIEWING GEOLOGIST: Don Fischer, Environmental Senior Analyst
Kevin Frederick, Supervisor, GPC Program

REVIEWING ENGINEERS: Phillip Stump, E.I.T., GPC Program Engineer
Jake Strohman, P.E., Groundwater Section Manager

DATE OF LAST REVIEW: March 3, 1993

DATE OF THIS REVIEW: February 3, 1994

ACTION: **NOT APPROVED 'As-Built'**

I. CONCLUSIONS OF ADEQUACY OF WORK COMPLETED TO DATE:

1. The hydrocarbon recovery rates of the SVE System have decreased considerably since the May 1993 monthly reporting period. This recovery rate reduction appears to have occurred concurrently with a gradual rise in the water table level in the Brookhurst area. Beginning in January 1993, gradual reductions in measured free product thicknesses have accompanied the static water table rise. WDEQ/WQD is concerned that the water table is rising above the zone of residually adsorbed contamination in the soils. Since the reduction in free product levels is primarily due to the rising water table and not due to the effects of the SVE System, WDEQ/WQD is very concerned that the free product may be spreading laterally, and the SVE System has become less effective. Future seasonal variations in the water table need to studied and documented to substantiate the remediation effects attributable to the SVE System.

2. WDEQ/WQD is concerned about soil and groundwater contamination which has appeared to have migrated north of Mustang Trail Road and east of Spotted Pony Road from the present Brookhurst SVE system area. Free product and dissolved phase contamination appears to have migrated outside of the SVE system's zone of influence.

3. WDEQ/WQD is concerned about the contamination in the SVE System's zone of influence in the area of the recently abandoned SVE Wells (VE-1, VE-2, VE-3, VE-4, and OS-1). Residual soil contamination and dissolved groundwater contamination is currently present in this zone.

II. REQUEST/REQUIREMENTS/RECOMMENDATIONS:

1. Clarify whether the existing SVE system can continue to be operated without causing substantial mounding of the water table and possibly influencing the migration of the KN Energy/Dow Schlumberger CERCLA plume. Provide potentiometric surface maps which illustrate static water levels in outlying monitoring wells during and after operation of the SVE system to document any mounding effects.

2. The authorization of this permit will be **contingent on the WDEQ/Air Quality Division (AQD) approval.** Prior to issuance of this as-built permit, WDEQ/WQD, Cheyenne, shall be notified in writing of WDEQ/AQD's approval to waive permitting requirements to operate the present SVE system and ARI catalytic oxidation unit. (Submittal of copies of the authorization letters from WDEQ/AQD will meet this requirement).

3. Prior to issuance of this permit, Little America Refinery shall submit an Operation & Maintenance (O & M) Manual of the Soil Vapor Extraction System to WDEQ/WQD for approval. Items to be included in the O & M Manual are outlined in Section 24 of Chapter XI, Wyoming Water Quality Rules and Regulations and additional items are as follows:

   a. specific operating information for each of the components of the system;

   b. routine scheduled maintenance and any other required maintenance;

   c. contingency plans in the event of any equipment failure;

d. contingency provisions to remedy any short-circuiting that is measured at a SVE wellhead (i.e., adjusting the flow valve at the SVE wellhead, etc.);

e. winterization provisions employed in the design of the system (i.e., piping installed below grade, etc.) to provide for year-round operation;

f. a system performance monitoring plan (i.e., sampling and monitoring frequencies, parameter lists, operating flow rates and vacuums, etc.), and;

g. the reporting schedules for submitting monitoring and sampling data.

4. The proposed monitoring plan included in the Brookhurst Well Sampling and Analysis Schedule (Table 1. of permit application) is adequate with the exception of following additional monitoring requirements:

a. During operation of the SVE system pressure/vacuum levels at each SVE wellhead shall be monitored and documented weekly.

b. During operation of the SVE system the total operating flow rate and vacuum of the system and VOC concentrations at the inlet of the ARI unit shall be measured and documented weekly. The compositions of the vapor samples shall be analyzed by gas chromatography (GC) and the constituents documented on a monthly schedule as required by the WDEQ/AQD.

c. SVE wells (VE-5, VE-6, VE-9, VE-13, VE-14, VE-15, VE-16, VE-17 and OS-2) shall continue to be monitored monthly for hydrocarbon thickness and static water levels. The monthly monitoring data shall be presented graphically on time history plots (free product thickness and static water levels vs. time) to study the effects of water table variations on free product thickness levels.

d. Is monitoring well (MW-48) suitably constructed to attain representative groundwater samples? The status of monitoring well (MW-48) shall be clarified.

5. Little America Refinery shall propose to submit an annual report summarizing and documenting all monitoring at the SVE System in Brookhurst and describing plans and schedules for future work. The report shall include an evaluation of the system's performance in meeting its original objectives. At a minimum the report shall contain the following:

a. A description of the SVE system operation and an analysis of the empirical data from the operation which includes:

(1) performance results (zone of influence, effects on free product and dissolved contaminants, water table mounding, etc.);

(2) documentation of any shut-downs or downtime (problems encountered and responses taken).

b. Empirical data shall be presented in tabular form (dissolved benzene, oil & grease, and lead concentrations, distillation curve data from hydrocarbon sampling, etc.) and in graphical form (the concentration of extracted vaporous constituents and the mass of extracted vapors vs. duration of operation), and;

c. Plan view maps of the site illustrating:

(1) the zone of influence of the SVE wells;

(2) free product thickness contour maps from the monthly monitoring events;

(3) the potentiometric surface (water table elevations) during the monthly sampling events illustrated in (2);

(4) locations of all existing SVE and monitoring wells, piezometers, and soil-vapor monitoring points, and;

(5) vapor concentrations at respective sampling locations from the monthly soil-vapor surveys.

6. The application materials illustrate five (5) SVE wells (VE-7, VE-8, VE-10, VE-11, and VE-12) without clarification of whether these wells are manifolded to the SVE System. If these SVE wells are not manifolded to the system, what purpose do they serve (i.e., groundwater monitoring) and what WDEQ/WQD permit were they installed under? Discuss optional additions or expansions to the SVE System (not including the expansion of the SVE wells at Little America's eastern property line.) If these SVE wells are manifolded to the system, submit an engineering construction schematic of the complete SVE system.

7. Provide material and design specifications for the equipment of the existing SVE system, such as the knockout pot, ARI incinerator, rotary blower, receiving tank. Provide the operating constraints and the basis for design and sizing of the treatment processing units (i.e., average and maximum air flow rates, maximum operating vacuums, etc.) and submit copies of manufacturers' specification sheets which includes performance curves for the rotary blower.

LAND APPLICATION PERMIT

PERMIT NO.: 92-196R
Ref. 92-107
SEE SPECIAL CONDITIONS

Fir Creek Ranch Land Application
(Name of Facility)

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

Mr. Roger Altman

P.O. Box 190

Moran, WY 83013

to one time land apply up to 288,000 gallons of hydrocarbon contaminated wastewater produced during the pump test of a 4" remediation system well. The application site is located in NW 1/4 SE 1/4 Section 23, T45N, R113W in the county of Teton in the State of Wyoming. This permit shall be effective for a period of one (1) month 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
Water Quality Division

Director
Dept. of Environmental Quality

7/17/92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

Conditions to Land Application Permit

Due to the indefinite contaminant levels that may be encountered during the land application of the pump test wastewater, this permit is granted under the provisions of the Water Quality Division Rules and Regulations, Chapter XI, Section 5. This section allows for permitting on a case-by-case basis using the best available technology. The data available in conjunction with an evaluation of the site and proposed treatment, indicates a reasonable probability that the system will safely dispose of the wastewater while protecting both surface and groundwater. In order to ensure surface and groundwater protection the following conditions must be met:

1. of 6 The owner is responsible for cleanup of any groundwater contamination in excess of state groundwater standards resulting from the land application.

2. of 6 The owner is responsible for cleanup of soil contamination in the application site if the levels exceed 10 ppm total petroleum hydrocarbons.

3. of 6 If on-site testing of wastewater from the well shows benzene levels greater than 0.5 ppm, the aquifer test must stop immediately.

4. of 6 Wastewater and soil field and laboratory testing must be conducted in accordance with the program outlined in the permit application. Follow up sampling and testing of the soil and groundwater at the application site must be conducted as necessary to ensure the appropriate standards are met.

5. of 6 No surface runoff is permitted from the application site.

6. of 6 A complete written summary of all the water quality and soil test data collected during the pump test is required within 30 days of completion of the test. The water quality data must be reported in both tabular and graph form showing concentration levels versus time and pump rate. The summary must include totals of BETX and TPH produced and levels removed at each phase of the treatment process.

JH/anc

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 92-197
SPECIAL CONDITIONS

BENSON RESIDENTIAL SEPTIC SYSTEM

This permit hereby authorizes the applicant:

Margaret Benson
12930 Dusty Lane
Casper, Wyoming 82604
city

to construct, install or modify a residential leaching chamber septic system according to the procedures and conditions of the application number 92-197. The facility is located in NW 1/4 Section 27 T33N R81W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

10-12-92
Date of Issuance

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

SPECIAL CONDITIONS

1 of 5. A standard soil absorption septic system is unacceptable in areas with percolation rates greater than 60 minutes per inch. However, a leaching chamber system will have both greater exposed infiltrative surface area and increased liquid storage capacity to allow for the extended infiltration time needed in tight soils. Therefore, for this site, an "Infiltrator" brand leaching chamber system is hereby allowed in lieu of a standard soil absorption system. The system shall be installed as specified in the plans submitted and also according to the following additional conditions.

2 of 5. **Specific "Infiltrator" Conditions:**

a) A minimum of twelve(12) inches of soil cover shall be placed over the tops of the chambers.
b) End plates are required at the inlet and downstream ends of the chambers.
c) The bottom of the trench or bed shall be level and scarified.
d) For gravity systems the inlet pipe shall extend through the end plate and terminate on an adequate splash plate or block.

PERMIT NO. 92-197

3 of 5. All installation activities must be coordinated with the Natrona County Health Department (NCHD) located at 1200 East 3rd, Casper, Wyoming. The NCHD can be reached by telephone at 235-9316. All inspections, as deemed necessary by the NCHD, shall be conducted and approved by the NCHD before continuing construction.

4 of 5. The NCHD will also be requesting a local permit. The applicant must obtain any local permits required.

5 of 5. **As-Built Plans** of this septic system, as well as a scaled map of the entire lot showing in detail the locations of all structures, wells, and other existing septic systems, shall be submitted to the DEQ / Water Quality Division within 45 days of completion of this project. These plans shall include accurate dimensions and distances. Copies of all NCHD inspection reports shall also be included with these plans.

RLE/jn
23667.ltr

cc: Natrona County Health Dept., Attn. John Drinnon

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 92-198
CONDITIONED

Beaver Creek District Maintenance Storage Yard
Grand Teton National Park
(Name of Facility)

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

National Park Service

12795 West Alameda Parkway

Denver, CO 80225-0287

to construct 2" PVC monitoring wells at the Beaver Creek District Maintenance Yard according to the procedures and conditions of the application No. 92-198. The facility is located in SW¼ Section 13, T43N, R116W 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, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

8-14-92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

DN/jyi

* CONDITIONS ON PAGE 3 thru 5 *

Conditions for Monitoring Wells

1. of 11 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 92-198. 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. of 11 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.of 11 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. of 11 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. of 11 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. of 11 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 that 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 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 a foot or two above the top perforation. Protective casing shall be cemented into a sloping concrete cap; and

j. All monitor wells shall be designed so that they contain a minimum of 3 feet of water at all times.

7. of 11 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. of 11 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. of 11 Proper well evacuation, sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD standard procedures.

10. of 11 All monitor wells associated with this facility shall be sampled and the wastewater analyzed as agreed upon.

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. of 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

PERMIT TO CONSTRUCT

PERMIT NO. 92-199

X New
Renewal
Modified

FRONTIER PARK WATER AND SEWER LINE EXTENSIONS

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
2406 Snyder
Cheyenne, WY 820039

to construct, install or modify water and sewer line extensions according to the procedures and conditions of the application number 92-199. The facility is located in SW¼ Section 2 T13N R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

7/15/92
Date of Issuance

This permit <u>does not</u> supersede the requirements for obtaining any permit from local agencies.

LBH/jn
22056.LTR

LAND APPLICATION PERMIT

[X] New

[ ] Renewal

[ ] Modified

PERMIT NO. 92-200

SEE SPECIAL CONDITIONS

RECORD ROAD APPLICATION
(Name of Facility)

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

Duncan Energy Company
1777 S. Harrison St., Penthouse #1
Denver, CO 80210-3925

to land apply waste crude oil and sludges according to the procedures and conditions of the application No. 92-200. The application site is located in Section 13, T50N, R71W, in the County of Campbell in the State of Wyoming. This permit shall be effective until November 1, 1992.

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

7/15/92
Date of Issuance

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

DRM/pr:7/06/92

LAND APPLICATION SPECIAL CONDITIONS

1 of 5. Crude oil stained soils shall be applied uniformly. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist. Crude oil stained soils shall not be applied during the period from November 1 to April 10.

2 of 5. The application site slope shall not exceed eight percent (8%) for vehicular application.

3 of 5. Crude oil stained soils application shall be terminated with 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

4 of 5. Any waste crude oil and sludge application after November 1, 1992 must be repermitted.

5 of 5. The permittee will contact the Department of Environmental Quality, Water Quality Division District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, telephone number 307/672-6457, to arrange a field inspection prior to initiation of work. The District Office should be notified at least 48 hours in advance of discharges and must be informed how much waste oil will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.