

PERMIT 93-001
IS
MISSING FROM THE FILES

PERMIT TO CONSTRUCT

New

Permit No. 93-002R

Renewal

Modified

Ryan Park Precambrian Rock Well (RPPC-1)
(Name of Facility)

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

Wyoming Water Development Commission

Herschler Bldg. 4th Floor West Wing

Cheyenne, WY 82002

to construct a groundwater source well according to the procedures and conditions of the application No. 93-002R. The facility is located in NW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 29, T16N, R81W in the County of Carbon, 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.

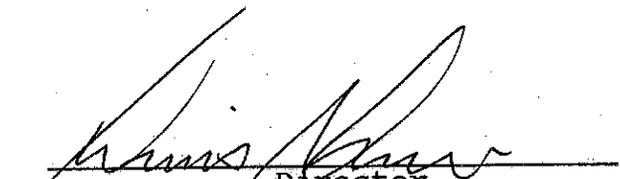
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

1-27-93
Date of Issuance

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

RT/jyi

PERMIT TO CONSTRUCT

- [X] New
[] Renewal
[] Modified

Permit No. 93-003R

Ryan Park North Park Formation Well (RPNT-1)
(Name of Facility)

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

Wyoming Water Development Commission

Herschler Bldg. 4th Floor West Wing

Cheyenne, WY 82002

to construct a groundwater source well according to the procedures and conditions of the application No. 93-003R. The facility is located in SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 28, T16N, R81W in the County of Carbon, 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.

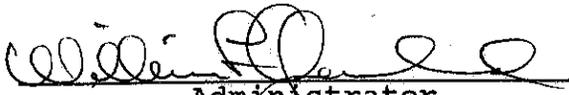
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

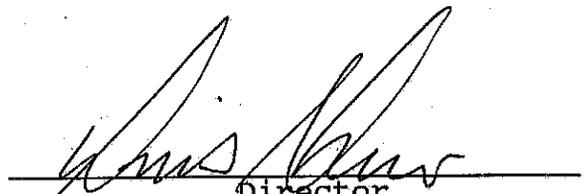
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

1-27-93
Date of Issuance

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

RT/jyi



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

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

Solid Waste Management Program
(307) 777-7752

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

March 25, 1993

Mr. James L. Mathis
Plant Superintendent
Texaco Refinery
P.O. Box 307
Evansville, WY 82636

RE: Permit to Construct #93-004: Extent of Contamination
Investigation (MW-68)

Dear Mr. Mathis:

Attached, please find WQD Permit #93-004 authorizing Texaco to proceed with the extent of contamination investigation according to the Extent of Contamination Workplan submitted January 5, 1993 and the terms and conditions attached to the permit. Please review these terms and conditions thoroughly since they do, in some instances, require that certain measures be take in addition to those which were proposed in the workplan.

Please feel free to contact me at 777-7781 if you have any questions.

Thank you for your efforts in working toward addressing the contaminant problem.

Sincerely,

Don Fischer
Environmental Senior Analyst
Water Quality Division

DF/bb/31388.1tr

Attachment

cc: Bob Dundas, SHWD, Casper
Tom Aalto, US EPA, Denver

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-004
SPECIAL CONDITIONS

This permit hereby authorizes the applicant:

Texaco Refinery
P. O. Box 307
Evansville, WY 82636

to construct, install or modify soil boreholes according to the procedures and conditions of the application number 93-004. The facility is located in Section 31 (NE of SW), T34N, R78W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of one (1) years (5 years maximum) from the date of issuance of this permit.

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

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

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

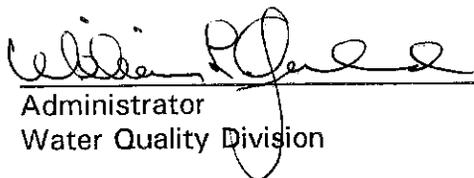
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

3-24-93

Date of Issuance

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

SPECIAL CONDITIONS FOR PERMIT TO CONSTRUCT 93-004

- 1 of 20 The soil boreholes shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 93-004. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 20 DEQ/WQD personnel shall be given at least two weeks notice prior to the installation of boreholes/monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
- 3 of 20 Other boreholes up-gradient of M-68 and north or south of BH-1 should be considered if no contamination is encountered in BH-1.
- 4 of 20 If product is encountered in any up-gradient borehole, subsequent boreholes shall be drilled up-gradient from the contaminated borehole until the source of the contamination is located.

PERMIT NO. 93-004

- 5 of 20 According to correspondence from WYCO Pipeline Company, what appeared to be fuel oil was discovered in three boreholes surrounding the contaminated well. Please submit data on the location of the boreholes in which contamination was found.
- 6 of 20 Please submit all monitoring and sampling information since September 1992 for the monitoring wells adjacent to monitor well M-68.
- 7 of 20 All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
- 8 of 20 Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.
- 9 of 20 Temporary wells/boreholes will be capped, covered, and the annular space temporarily sealed to prevent the entry of any material into the well and annular space of the borehole.
- 10 of 20 Temporary wells will be left to stand a minimum of 72 hours before monitoring for free product or collecting samples.
- 11 of 20 Proper well/piezometer evacuation shall include removal of a minimum of 3 casing volumes prior to sampling or pumping the well/piezometer dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with Texaco's RFI Workplan standard procedures.
- 12 of 20 Water which is collected during monitoring well/piezometer development or sampling must be disposed of properly. The Applicant must contact the City for authorization to dispose into the local storm sewer, sanitary sewer, wastewater treatment plant, or other facility.
- 13 of 20 In the absence of free product, groundwater from all boreholes/monitor wells/piezometers installed under this permit shall be sampled and analyzed one time for the following listed parameters according to the EPA Method stated:
- a. BETX: EPA 602/8020
 - b. TPH: EPA 8015 for gasoline and diesel;
- Cuttings from each borehole shall be screened with an HNU or OVA at 1 foot intervals. One split spoon sample shall be taken from the "capillary fringe" interval between the water table and 2 feet above the water table. These samples, including each cutting sample exhibiting ≥ 50 units (HNU/OVA) shall be analyzed one time for the following listed parameters according to the EPA Method stated:
- a. BETX: EPA 8260
 - b. TPH: EPA 8015 for gasoline and diesel;

14 of 20

Within 24 hours of completion of monitoring and sampling, the temporary monitoring wells shall be properly plugged and abandoned, or converted to permanent wells.

15 of 20

The following items relating to well/piezometer construction shall be implemented if the wells/piezometers are converted to permanent use:

- 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 at least five feet below the lowest expected groundwater level. Factory screen or slotted casing is recommended for the perforated interval;
- c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
- d. To minimize the entrance of fine grained material into the well/piezometer, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to one foot above the screened interval;
- e. A two foot (2') thickness of bentonite or bentonite grout is required from the top of the filter pack to one foot below surface to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal. The annular space above the bentonite seal to within one foot (1') of the surface will be sealed with Portland cement or a sand-cement grout. A protective casing shall be cemented into place when the upper foot of the annular space is completed with cement forming a concrete apron sloping away from the well/piezometer;
- f. Filter pack, annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;
- g. A top and bottom cap of the same material as the well/piezometer casing shall be installed to prevent sediment and surface water from entering the well/piezometer;
- h. The monitoring well/piezometer shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;
- i. All monitor wells/piezometers shall be designed to contain a minimum of 3 feet of water at all times of the year.

PERMIT NO. 93-004

16 of 20 For permanent monitoring wells, well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers 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.

17 of 20 Within 120 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, borehole/monitoring well/piezometer locations, and mean sea level elevations of the top of casing/measuring point;
- c. The permittee shall provide the exact latitude and longitude for each of the monitor wells/piezometers being constructed under this permit. These figures shall be accurate to the nearest one second of latitude and longitude.
- d. Final location, temporary and/or permanent construction details and lithologic logs of all boreholes/monitor wells/piezometers;
- 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 LNAPL (free product), soil and dissolved groundwater contamination and concentrations;
- j. A potentiometric surface map showing the direction and gradient of groundwater flow; and
- k. Interpretation of the data and conclusions of the investigation, including additional recommended investigation and remedial measures, and a schedule for implementation of these measures.

A copy of this report should also be submitted to Texaco's EPA RFI Project Officer. Amendments should be made as necessary to the Texaco's RFI Workplan.

- 18 of 20 A hydrocarbon recovery system was installed in ground water monitoring well M-68. If Texaco wishes to continue operations at this well for recovery purposes, Texaco must obtain the proper permit from DEQ/WQD to change from a monitoring well to a recovery well, and obtain authorization from the State Engineer's Office. The application for this permit must include a construction detail of the recovery well, material specifications, and an Operations and Maintenance Manual.
- 19 of 20 The applicant is responsible for obtaining any Permits required by the State Engineers Office (777-7354).
- 20 of 20 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/piezometers shall be installed to define the nature and extent of the contamination.

KF/jn - 31339.ltr

cc: Jake Strohman, WQD/Cheyenne
 Kevin Frederick, WQD/Cheyenne
 Tom Aalto, USEPA, Denver



BURLINGTON NORTHERN RAILROAD

ENGINEERING DEPARTMENT

373 Inverness Drive South
Englewood, CO 80112
Telephone (303) 220-3550

June 14, 1993

Mr. Gary Steele
Wyoming Department of Environmental Quality
Water Quality Division
Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

RECEIVED

JUN 16 1993

WATER QUALITY DIVISION
WYOMING

Dear Mr. Steele:

Thank you for meeting with me on June 11th to discuss Burlington Northern Railroad's application to construct an evaporative lagoon at it's Guernsey Wyoming Locomotive Servicing Facility. The Water Quality Division reference number is 93-005R. The meeting was very productive and provided BNRR with direction for this project.

At this time, BNRR requests the application be withdrawn so that we may reassess the necessary design requirements for this project. Our intent is to expand the scope of work, taking into consideration WDEQ's requirements, and submit a new application later this year.

If you have any additional comments or need to contact me, my phone number is (303) 220-3544. Again, thank you for your time.

Sincerely,

Michael J. Perrodin
Manager Environmental Engineering

cc: B. T. Noonan
M. L. Burda
P. L. Adelman

R. E. Werner
J. W. Meldrum
R. J. Boileau

D. S. Backer - HDR

2963K/mjp

93-005

1. Min slope of sewer will lower lift station by 0.12'
2. Lagoon should have two cells w/ bypass piping
3. 10"x8" reducer on bypass - maintain continuous flow line.
4. Pond does need leak detection systems.
5. O & M Manual needed
6. Concerned about 8" into MH 25 + 6" out, can 6" handle flow to Guernsey sys. or is 6" scheduled to be replaced w/ 8" in future
7. Guernsey sys should be able to handle full capacity of overflow line

**REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION**

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Burlington Northern Railroad, Guernsey Evaporation Lagoons

ENGINEER: HDR Engineering, 303 East 17th Avenue, Suite 300, Denver, CO 80203

APPLICANT: Burlington Northern Railroad
Chester A. Culley
373 Inverness Drive South
Englewood, Colorado 80112

WATER QUALITY DIVISION REFERENCE NUMBER: 93-005R

REVIEWING ENGINEER: Robert F. Lucht, P.E. & P.G.

DATE OF REVIEW: 04/06/1993

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. HDR has not addressed the primary comment made concerning the outlet structure on this pond. Precisely how will BNRR provide for emptying this lagoon without the multilevel drawoff feature. Please show that this system could be shut down for a time sufficient to empty the lagoon and make any required repairs without causing a problem. Please show how the lagoon can be emptied without damage to the liner. An Operation and Maintenance Manual will be required within 90 days of the completion of construction to detail operations such as the need to empty the pond.

2. HDR has stated that the lagoon system will be completely bypassed and water will be sent directly to the Town of Guernsey sewer system whenever the single cell system is in need of repair. In order of this department to waive the requirement that the lagoon system contain two cells several aspects of the operation of this system need to be adequately addressed:

a) How much time will be required to empty the pond and affect a repair? Some estimate needs to be submitted to show, under worst case conditions, how much time will be required to make such repairs and how much water will be discharged to the town sewer system while these repairs are made.

b) Water quality discharged to the Town of Guernsey Wastewater system during repairs. It has been stated that the water feeding the lagoon system will meet the Town of Guernsey's limitation of 50 mg/l Total Petroleum Hydrocarbons. Since nothing has been added to the oil water separator during this modification, what information is there to show that past discharges have met this requirement. At the time of the last inspection, it was obvious that free oil has been present in the past, not only in the present lagoons but also in the discharge to the town sewer. On what basis can BNRR make the claim that the discharge limitations will be met, other than reliance on the design specifications of the system. The present system is being replaced, in part because design specifications are not always met in practice.

c) Flow rate during bypass of the pond. The Town of Guernsey has limited your discharge to "34,560 gallons per 30 day month". (Letter from C.M. Green, Town Superintendent, December 10, 1992) Please submit information that shows that BNRR can also meet this limitation in the event that the lagoon system must be bypassed. All that has been submitted to date for flows are calculations of the capacity of various portions of the system. These calculations do not address the required capacity of the system as a whole.

3. The pipe run from MH-21 to MH-22 is shown as 10" gravity sewer pipe with a grade of .25%. Section 9(c)(i)(C) of Chapter XI requires that 10" gravity sewer pipe be laid to no less than .28% grade. This department believes that this section of Chapter XI is the applicable section of Water Quality Rules and Regulations and that it applies to any sewer line. This pipe grade must be changed before this department can issue this permit.

4. A note on Page 2 of 8 states that one joint of 10" pipe will be installed on each side of the manholes on the 8" line discharging from the lagoons. This is also shown on page 7 of 8. This is not allowed. There can be no change in pipe size, direction or grade between manholes according to Chapter XI, Section 9(d)(i). This department believes that this section of Chapter XI is the applicable section of Water Quality Rules and Regulations and that it applies to any sewer line. This pipe size must be changed before this department can issue this permit.

5. Section 9(c)(i)(E) states that sewer lines shall not decrease in size in the direction of flow. In this case, the pipe runs between MH-23 and MH-25 must be the same size or larger than the pipe runs between MH-21 and MH-22. The total net evaporation loss from this lagoon is less than 250,000 gallons per year or 662 gallons per day. This loss due to evaporation is not sufficient to affect the pipe sizes in any way. This department believes that this section of Chapter XI is the applicable section of Water Quality Rules and Regulations and that it applies to any sewer line. This pipe size must be changed before this department can issue this permit. If the run of pipe from MH-25 to the town

system is ever replaced, it must also be replaced with 10" pipe to conform to the regulations.

6. HDR has not adequately responded to comment 13 on the original review of this application. Exactly how much additional wastewater volume is expected in this new lagoon over what has been delivered to the old lagoons in the past? Since the surface area of the new lagoon is slightly smaller than the combined surface area of the existing lagoons, HDR must show that the what the total inflow to this system will be and project how much water will be discharged to the town sewer. It should be obvious that a synthetic liner in a new lagoon will completely eliminate seepage from the lagoon. This will have the effect of adding water to the system. Calculations should be submitted to show how much water is to be treated through this system, how much will evaporate, and how much will be discharged to the Town of Guernsey. Section 3D of the Design Report shows a summary of the theoretical design basis but does not provide any of the design calculations. This agency cannot evaluate a system like this without seeing the calculations which went into the design.

7. Throughout its response to the comments on the original review of this system, HDR has maintained that the wastewater being treated will be free of solids and relatively free of oil and grease. The facts evident in the field do not support these conclusions. In the past, this system has accumulated so much sediment that the sediment trap at the bottom of the hill south of the existing lagoons has become completely filled with sediment. Part of the reason for replacing the existing lagoons is that they have partially filled in with sediment. The existing lagoons exhibit oil staining around the perimeter of the water surface, indicating that free oil has been passed through the oil water separator in the past. All of these facts argue against many of the representations made by HDR in the response to this department's first review of this permit.

8. How will BNRR monitor the new lagoon to detect and repair leaks in the liner system? A monitoring plan should be included in the Operation and Maintenance Manual.

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Burlington Northern Railroad, Guernsey Evaporation Lagoons
ENGINEER: HDR Engineering, 303 East 17th Avenue, Suite 300, Denver, CO 80203
APPLICANT: Burlington Northern Railroad
Chester A. Culley
373 Inverness Drive South
Englewood, Colorado 80112

WATER QUALITY DIVISION REFERENCE NUMBER: 93-005R

REVIEWING ENGINEER: Robert F. Lucht, P.E. & P.G.

DATE OF REVIEW: 04/06/1993

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. HDR has not addressed the primary comment made concerning the outlet structure on this pond. Precisely how will BNRR provide for emptying this lagoon without the multilevel drawoff feature. Please show that this system could be shut down for a time sufficient to empty the lagoon and make any required repairs without causing a problem. Please show how the lagoon can be emptied without damage to the liner. An Operation and Maintenance Manual will be required within 90 days of the completion of construction to detail operations such as the need to empty the pond.
2. HDR has stated that the lagoon system will be completely bypassed and water will be sent directly to the Town of Guernsey sewer system whenever the single cell system is in need of repair. In order for this department to waive the requirement that the lagoon system contain two cells several aspects of the operation of this system need to be adequately addressed:
 - a) How much time will be required to empty the pond and affect a repair? A realistic estimate needs to be submitted to show, under worst case conditions, how much time will be required to make such repairs and how much water will be discharged to the town sewer system while these repairs are made.

- b) Concerning water quality discharged to the Town of Guernsey Wastewater system during repairs: It has been stated that the water feeding the lagoon system will meet the Town of Guernsey's limitation of 50 mg/l Total Petroleum Hydrocarbons. Since nothing has been added to the oil water separator during this modification, what information is there to show that past discharges have met this requirement. At the time of the last inspection, it was obvious that free oil has been present in the past, not only in the present lagoons but also in the discharge to the town sewer. On what basis can BNRR make the claim that the discharge limitations will be met, other than reliance on the design specifications of the system. The present system is being replaced, in part because design specifications are not always met in practice.
 - c) Concerning the flow rate during bypass of the pond: The Town of Guernsey has limited your discharge to "34,560 gallons per 30 day month". (Letter from C.M. Green, Town Superintendent, December 10, 1992) Please submit information that shows that BNRR can also meet this limitation in the event that the lagoon system must be bypassed. All that has been submitted to date for flows are calculations of the capacity of various portions of the system. These calculations do not address the required capacity of the system as a whole.
3. The pipe run from MH-21 to MH-22 is shown as 10" gravity sewer pipe with a grade of .25%. Section 9(c)(i)(C) of Chapter XI requires that 10" gravity sewer pipe be laid to no less than .28% grade. This department believes that this section of Chapter XI is the applicable section of Water Quality Rules and Regulations and that it applies to any sewer line. This pipe grade must be changed before this department can issue this permit.
4. A note on Page 2 of 8 states that one joint of 10" pipe will be installed on each side of the manholes on the 8" line discharging from the lagoons. This is also shown on page 7 of 8. This is not allowed. There can be no change in pipe size, direction or grade between manholes according to Chapter XI, Section 9(d)(i). This department believes that this section of Chapter XI is the applicable section of Water Quality Rules and Regulations and that it applies to any sewer line. This pipe size must be changed before this department can issue this permit. In addition, this department has checked the measurement characteristics of various Palmer-Bowlus Flumes. It appears that a 10" flume will only register .0258 feet of water during the peak flow of +/- 33,000 gallons per day. (Isco Open Channel Flow Measurement Handbook, Second Edition, 1988, Isco, Inc.) Please demonstrate that the flume selected will measure the required flows accurately, both during maximum discharge and during normal operating conditions. What will be the effect of sand and silt in the discharge on the measurement device during periods when the lagoon has been temporarily bypassed.

5. Section 9(c)(i)(E) states that sewer lines shall not decrease in size in the direction of flow. In this case, the pipe runs between MH-23 and MH-25 must be the same size or larger than the pipe runs between MH-21 and MH-22. The total net evaporation loss from this lagoon is less than 250,000 gallons per year or 662 gallons per day. This loss due to evaporation is not sufficient to affect the pipe sizes in any way. This department believes that this section of Chapter XI is the applicable section of Water Quality Rules and Regulations and that it applies to any sewer line. This pipe size must be changed before this department can issue this permit. If the run of pipe from MH-25 to the town system is ever replaced, it must also be replaced with 10" pipe to conform to the regulations.
6. HDR has not adequately responded to comment 13 on the original review of this application. Exactly how much additional wastewater volume is expected in this new lagoon over what has been delivered to the old lagoons in the past? Since the surface area of the new lagoon is slightly smaller than the combined surface area of the existing lagoons, HDR must show that the what the total inflow to this system will be and project how much water will be discharged to the town sewer. It should be obvious that a synthetic liner in a new lagoon will completely eliminate seepage from the lagoon. This will have the effect of adding water to the system. Calculations should be submitted to show how much water is to be treated through this system, how much will evaporate, and how much will be discharged to the Town of Guernsey. Section 3-D of the Design Report shows a summary of the theoretical design basis but does not provide any of the design calculations. Chapter XI, Section 6(b)(ii) specifically requires "Current and projected average, maximum day and peak flows for the design of the project, per capita design flows, extraneous flows, and industrial and/or commercial waste flows."
7. In section C-2 of the Design Report, the statement is made that the Smith and Loveless wet well pumps will operate under 14.6 feet of suction lift. Since the design of the lift station should provide a flooded suction for these pumps at all times, there is actually no suction lift. The actual condition is simple 17.4 feet of total lift. At this elevation, this pump would be very marginal if the lift was actually on the suction side of the pump.
8. Throughout its response to the comments on the original review of this system, HDR has maintained that the wastewater being treated will be free of solids and relatively free of oil and grease. The facts evident in the field do not support these conclusions. In the past, this system has accumulated so much sediment that the sediment trap at the bottom of the hill south of the existing lagoons has become completely filled with sediment. Part of the reason for replacing the existing lagoons is that they have partially filled in with sediment. The existing lagoons exhibit oil staining around the perimeter of the water surface, indicating that free oil has been passed through the oil water separator in the past. All of these facts argue against many of the representations made by HDR in the response to this department's first review of this permit.

9. The wastewater treated through this system may easily contain hazardous constituents. Please submit data which shows the content of the wastewater for all constituents measured by EPA Methods 604, 624, 610, and for Arsenic, Barium, Cadmium, Chromium, Copper, Lead, Mercury, Selenium, and Zinc. This information is necessary to ensure full compliance with all state and federal regulatory programs.

10. How will BNRR monitor the new lagoon to detect and repair leaks in the liner system? A monitoring plan should be included in the Operation and Maintenance Manual.

/jn - 31667.ltr

THE STATE



OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

Land Quality Division
(307) 777-7766
FAX (307) 634-0799

Solid Waste Management Program
(307) 777-7762

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

February 3, 1993

Mr. Rob Gronewold
Frontier Refining, Inc.
P.O. Box 1588
Cheyenne, Wyoming 82003-1588

Re: Permit application for sewer modification, Application No. 93-006.

Dear Mr. Gronewold:

Enclosed are three copies of the permit application submitted for a modification of the wastewater collection system at Frontier Refinery. Review of the application indicates that a construction permit is not required under the Environmental Quality Act. The application materials are being returned in accordance with Section 7 (f), Chapter III, Wyoming Water Quality Rules and Regulations.

The determination that no permit is required is based upon the finding that the proposed modification is a service connection from a fire water pump house and that the only waste is firewater which may be spilled to the floor drain. This office does not issue construction permits for service connections. It is not clear from the materials submitted whether the sewer line being connected to is the municipal sewer or the Frontier Refining wastewater collection system. If you intend to connect to the municipal system it will be necessary to receive permission from the city of Cheyenne. Any discharge to the refinery collection and treatment system will be regulated under the existing NPDES permit.

This letter constitutes final action on the construction permit application.

Sincerely,

A handwritten signature in cursive script, appearing to read "William L. Garland".

William L. Garland
Administrator
Water Quality Division

WLG/LRR/bb/30517.1tr

Enclosures

cc: John Wagner, NPDES Program

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-007
Special Conditions

Water Treatment Plant Filter Bed Control System
(Name of Facility)

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

Joint Powers Water Board

50 North 2nd Street

Green River, WY 82935

to replace the water treatment plant control system and valves according to the procedures and conditions of the application No. 93-007. The facility is located in NE¼ Section 22, 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.

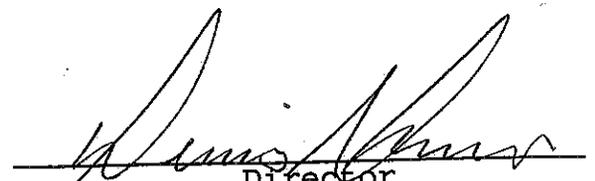
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

2-10-93

Date of Issuance

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

SPECIAL CONDITIONS

1. The intent of this permit is to authorize the replacement of the existing control system and valves and is necessary to improve the short term operation of the existing plant and aid the plants ability to provide high quality water. This permit

Permit to Construct

Page 3

should not be considered as an endorsement or commitment to expansion of the water treatment plant on the existing site. As indicated in letters of November 4, 1992 and December 31, 1992, the existing site does not meet the requirements of Section 8(b), Chapter III, Wyoming Water Quality Rules and Regulations regarding locating such a facility where a source of pollution may affect the quality of the water supply or the treatment system. The Department's denial of a permit application to expand the existing plant was based upon the potential threat to the public health and safety. This permit should not be construed as acceptance of any violation of the Water Quality Rules and Regulations, nor as a waiver of any of these standards.

RT/jyi

THE STATE



OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

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

Solid Waste Management Program
(307) 777-7752

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

May 3, 1993

Jim Mathis
Plant Superintendent
Texaco Refining and Marketing, Inc.
P.O. Box 307
Evansville, WY 82636

Dear Mr. Mathis:

Enclosed please find Permit to Construct # 93-008 for the interceptor trench and CSP Coke Pond pump for the Texaco Refinery. Please be sure to review the special conditions attached to the permit. If you have any questions, please call me at (307) 777-7781.

Sincerely,

A handwritten signature in cursive script that reads "Don Fischer".

Don Fischer
Environmental Senior Analyst
Water Quality Division

DF/jn - 32152.ltr

enclosure

RF

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 93-008
(See Attached Special Conditions)

TEXACO CASPER REFINERY RECOVERY TRENCH ADDITION
(Name of Facility)

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

Texaco Refining & Marketing, Inc.
P. O. Box 307
Evansville, WY 82636

to construct, install or modify an interceptor trench and CSP Coke Pond pump according to the procedures and conditions of the application No. 93-008. The facility is located in Sections 1,6 Township 33 North, Range 78 West, in the County of Natrona in the State of Wyoming. This permit shall be effective for a period of six (6) months from the date of issuance of this permit.

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

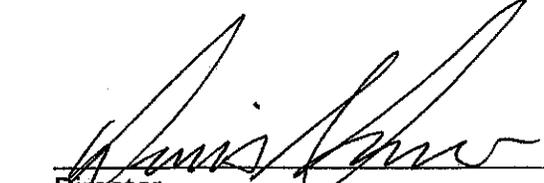
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

5-10-93

Date of Issuance

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

CONDITIONS FOR PERMIT TO CONSTRUCT #93-008

- 1 of 3. An operation and maintenance manual which describes in detail the operation of the interceptor trench and PCS Coke Pond pump shall be submitted to the Water Quality Division (WQD) for approval within thirty (30) days of operation of this system. Included in the manual shall be specific operating information for each of the components of the system, routine scheduled maintenance, reporting, and contingency plans in the event of equipment failure.
- 2 of 3. A sampling and analysis plan (SAP) shall be submitted to the WQD for approval before operation of the system. The SAP shall provide all sampling and analyses proposed to monitor the effectiveness of the interceptor trench and PCS Coke Pond pump including: proposed sample locations, parameters, and collection frequency, proposed sampling and analytical methods, sampling equipment, and data reporting.
- 3 of 3. The system shall be operated until approval to terminate operations is provided by the Water Quality Division.

SCF/DF/jn - 32150.ltr

GROUNDWATER SECTION REVIEW OF PROPOSALS/PLANS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Texaco Casper Refinery Recovery Trench Addition

APPLICANT: Texaco Refining and Marketing, Inc.
P. O. Box 307
Evansville, WY 82636

RECEIVED

MAR 15 1993

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 93-008

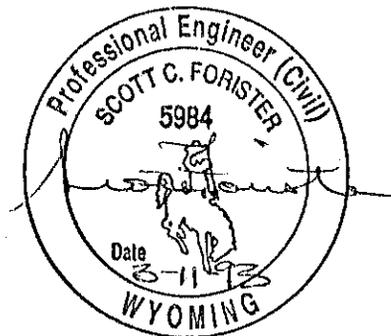
 PROPOSAL X PLANS REPORT (Check each that applies)

DATE ON PROPOSAL/PLANS/REPORT: January, 1993

REVIEWING GEOLOGIST/ENGINEER: Scott C. Forister, P.E.

DATE OF THIS REVIEW: March 11, 1993

ACTION: NOT AUTHORIZED FOR CONSTRUCTION



COMMENTS:

1. The size of the perforations must be stated in the specifications. Also, how will the size of the openings be determined?
2. The submittal does not present any current information about the contaminate plume characteristics. Without this information, it is not possible to justify the length or location of the proposed trench. The department understands that a considerable amount of subsurface investigation has been conducted in the vicinity. Any relevant information should be included or referenced in the submittal.
3. A Sampling and Analysis Plan (SAP) which will monitor the effectiveness of the proposed trench must be submitted for approval prior to start-up. The SAP must include sample locations, sampling and analysis proposed methodologies, equipment, personnel, decontamination procedures, disposal of wastes, etc.
4. An Operation and Maintenance manual must be submitted and approved prior to start-up.
5. What is the fate of the wastewater once it enters the service water return ditch. Please explain the function and components of the service water return ditch.

cc: Kevin Frederick, DEQ/WQD
Don Fischer, DEQ/WQD
IPS Section, Cheyenne
Tom Aalto, EPA

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-009
SPECIAL CONDITIONS

University of Wyoming Married Student Housing

This permit hereby authorizes the applicant:

University of Wyoming, Facilities Planning
Merica Hall, Suite 211
Laramie, Wyoming 82071

to construct, install or modify reconstruction water and sewer systems according to the procedures and conditions of the application number 93-009. The facility is located in T16N R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

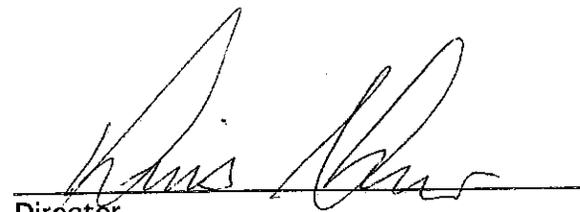
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

2-8-93

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 3. Sheet 2.03B. The vertical separation of the 6" water lines crossing at approximately stations 7+20 and 9+30 appear to be less than the required 18" and will require casing in accordance with Notes 1. and 2.
- 2 of 3. Sheet 2.04D. The proposed 6" water line 3-12 to 3-13 shall be cased at the crossing of the 6" sanitary sewer.
- 3 of 3. Residential water service connections shall be provided with a check valve at the meter or in the service line.

LRR/bb/30481.ltr

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

(X) New
() Modified

Permit Number 93-010
Subclass Number: 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),

Cordero Mining Company
P. O. Box 1449
Gillette, WY 82717-1449
Attn: Bill Beaver
(307) 682-8005

is authorized to operate

The Cordero Mine Diesel Seep *in-situ* Bioremediation System

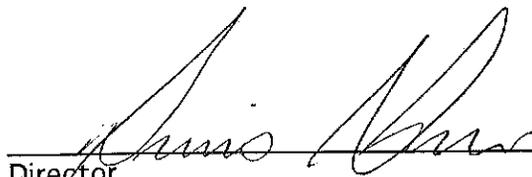
In the NW $\frac{1}{4}$ NW $\frac{1}{4}$, Section 25, and SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 24, Township 47 North, Range 71 West, of the 6th Principal Meridian; according to the procedures and conditions of application #93-010 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.



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

Feb 5, 1993
Date



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

February 8, 1993
Date

PERMIT 93-010

A. Discharge Zone and Area of Review

Discharge Zone:

This injection well is authorized to inject into an artificial fill formation which is found at this location from 0 to 60 feet below the ground surface.

Area of Review:

The facility authorized by this permit is located in:

Township 47 North, Range 71 West, 6th Principal Meridian
Section 24: SW $\frac{1}{4}$ SW $\frac{1}{4}$, Section 25: NW $\frac{1}{4}$ NW $\frac{1}{4}$

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

Township 47 North, Range 71 West, 6th Principal Meridian
Section 24: SW $\frac{1}{4}$, Section 25: NW $\frac{1}{4}$

B. Groundwater Classification

The groundwater in the artificial fill formation is tentatively classified as class I, II, or III under Chapter VIII of Wyoming Water Quality Rules and Regulations (April 9, 1980). This classification was made because:

- a. Analyses have not yet been provided. The groundwater in this formation is assumed to meet all of the quality standards set forth in Chapter VIII for class I, II, or III water; and
- b. The groundwater in this formation will be finally classified after the analyses required by section F-4 of this permit is received.

Groundwater of class I, II, or III shall not be degraded so as to make it unusable as a source of water for this purpose. When analyses are available, this groundwater will be classified by ambient quality.

C. Authorized Operations

The permittee is authorized to inject 685 barrels per day, (28,800 gallons per day) of water as described: Water pumped from the seep containment structure at the Cordero Mine in Campbell County augmented with active hydrocarbon degrading microbes. Up to 15 pounds per week of microbes may be added to this stream. Up to 10 mg/l of Nitrate as N; .5 mg/l of Ammonia as N; or 250 mg/l of Sulfate may be added to this stream if desired. Dissolved oxygen may be added in any amount if desired.

PERMIT 93-010

The permittee is authorized to inject at a pressure of no more than atmospheric 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:

At a minimum, the groundwater in the receiving formation shall be sampled prior to the injection of any fluid under this permit. This sample shall be analyzed for the following parameters at a minimum:

Potassium	Sodium	Calcium
Magnesium	Sulfate	Chloride
Carbonate	Bicarbonate	Total Dissolved Solids
pH	Conductivity	Specific Gravity

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:

PERMIT 93-010

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	TARGET RESTORATION VALUE (TRV)*
MD-24-1 MD-24-2 MD-24-3 MD-25-1 MD-25-2	Quarterly	EPA Method 601	Benzene	.005
MD-24-1 MD-24-2 MD-24-3 MD-25-1 MD-25-2	Quarterly	EPA Method 418.1	TPH	10
MD-24-1 MD-24-2 MD-24-3 MD-25-1 MD-25-2	Quarterly	EPA Method 610	Naphthalene	.140
MD-24-1 MD-24-2 MD-24-3 MD-25-1 MD-25-2	Quarterly	EPA Method 610	2-Methylnaphthalene	.140
MD-24-1 MD-24-2 MD-24-3 MD-25-1 MD-25-2	Monthly	Probe	Static Water Level	
MD-24-1 MD-24-2 MD-24-3 MD-25-1 MD-25-2	Monthly	Probe	Free Product Thickness	0

* 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. Chemical Analyses are not required if free product exists in the well at the time of sampling. In the later stages of cleanup, the permittee may apply to drop some of the wells from the monitoring and analytical list based on clean results shown by past samples.

PERMIT 93-010

The above Target Restoration Value (TRV) shall be reached when the site is fully remediated. 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 addition to the above, analyses shall be conducted for any chemical parameter added to the injection stream as allowed by Section C of this permit.

After several months of operation and submittal of detailed groundwater gradient maps, the Water Quality Division may require that additional monitor wells be drilled and that they be added to the above list.

G. Requirements for Monitoring the Discharge

The permittee shall monitor the operation of the oil recovery system on a continuous basis.

The permittee shall monitor the quality of the injectate fluid on the following schedule:

PARAMETER	APPROVED METHOD NUMBER	SCHEDULE	TRV*
Benzene	EPA Method 601	Monthly	10
TPH	EPA Method 418.1	Monthly	100
Naphthalene	EPA Method 610	Monthly	.140
2-Methylnaphthalene	EPA Method 610	Monthly	.140

* 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.

In addition to the above, analyses shall be conducted for any chemical parameter added to the injection stream as allowed by Section C of this permit.

H. Test Procedures

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

I. Records and Reports

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

PERMIT 93-010

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
11. The permittee shall provide a quarterly report on this injection. The quarterly report shall include:
 - a. A tabulation showing the amount of water injected for each day of operation for the quarter being reported;
 - b. 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 day and the cumulative amount of water injected to date;
 - c. The results of all required analyses for the quarter being reported;
 - d. A graph for each required monitor well showing the levels of Benzene, Total Petroleum Hydrocarbons, Naphthalene, 2-Methylnaphthalene, free product, and static water level from the date when the system went into operation through the current date.
 - e. Static water elevation contour maps for the immediate are of the injection point showing the groundwater table for each month of the operation.
 - f. Records showing the amount and kind of microbes added to the system, and any other additive added to the system.
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.

PERMIT 93-010

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

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;

PERMIT 93-010

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

N. Financial Responsibility

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

O. Special Measures the Director Finds Necessary

The permittee shall submit an "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.

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

The permittee shall control the groundwater gradient around the points of injection and withdrawal so that contamination does not migrate beyond the presently contaminated area. It is a violation of this permit to allow contamination to migrate off site. 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 and must take such measures as are necessary to correct the situation, including the shut-down of the injection if necessary.

If, after 18 months of operation of this system, no appreciable cleanup of the aquifer is evident, the Water Quality Division may require more comprehensive cleanup measures. These may include but are not limited to the installation of water suppression pumps, free product removal pumps, or other measures as the Administrator may require.

PERMIT 93-010

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."

PERMIT 93-010

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 of 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.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Terry Bison Ranch - RV Park, Hostil & Grill, and Store

ENGINEER: Peter J. Hutchison
Intermountain Professional Services, Inc.
1816 Central Avenue
Cheyenne, Wyoming 82001

APPLICANT: Ron Thiel
138 Iron Mountain Road
Cheyenne, Wyoming 82007

WATER QUALITY REFERENCE NUMBER: 93-011

REVIEWING ENGINEER: Ronald L. Ewald *RLE*

DATE OF REVIEW: February 5, 1993

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

RV PARK AREA SEWERAGE SYSTEMS

- 1 of 20. Profile drawings of each of the individual septic systems and collection lines need to be provided to show depths, slopes, materials, and other pertinent details.
- 2 of 20. A cleanout should be provided at the beginning of each collection line, and any bends.
- 3 of 20. Details of the collection line trench and bedding are not provided.
- 4 of 20. The make, model, and manufacturer of the septic tanks needs to be provided; or the actual specifications of the tanks should be included in the plans. Provide sufficient detail or other information to demonstrate compliance with Chapter XI, Section 39.
- 5 of 20. The configuration of the dual septic tanks needs to be better defined; including flow paths, and the size and arrangement of interior compartments. Provide information to show compliance with Chapter XI, Section 39(a)(iii).

- 6 of 20. The Distribution-Box (D-Box) shown at the head of the leach field is not installed in a way which will provide uniform distribution of the wastewater as required in Chapter XI, Section 41(a)(vii).
- 7 of 20. A better description of the leach field; including size, shape, infiltrative area, pipe layout, type and configuration of materials, and horizontal and vertical details; should be submitted to demonstrate compliance with Chapter XI, Sections 38 and 41.
- 8 of 20. An alternate or replacement leach field area needs to be identified for each septic system.
- 9 of 20. Details of the RV Dump Station design and construction need to be provided, including details of the backflow prevention system.

BUILDING SEPTIC SYSTEMS: STORE SYSTEM, AND HOSTIL/GRILL SYSTEM

- 10 of 20. Because the leach fields for the hostile/grill and the store have unusual shapes a more detailed description of the leach field is necessary. This should include size, shape, infiltrative area, depths, pipe layout and provisions to ensure reasonably uniform distribution of the effluent, type and configuration of the materials in the leach bed, and other horizontal and vertical dimensions as necessary to adequately describe the leach beds.
- 11 of 20. Again, the locations for future replacement leach fields need to be identified on the plans.

GENERAL SEWER SYSTEM COMMENTS

- 12 of 20. The design information and calculations were submitted on forms specifically designed for single family residential septic systems. The use of these forms for the presentation of the design information for these multi-unit and commercial facilities has led to an application package which is very poor. The design information for these types of systems should be presented in an Engineering Design Report (EDR) and an accompanying set of plans and specifications as described in sections 6 and 7 of Chapter XI of the Water Quality Rules and Regulations (WQR&R).
- 13 of 20. Percolation Tests - The location of each percolation test location needs to be indicated on the plans and the data for each location included in the application. Parts of the application refer to percolation data in previous applications. These applications were withdrawn and therefore all data must be included directly in this application. Also, at least 3 percolation tests need to be done in each separate leach field area.

GROUNDWATER CONCERNS

14 of 20. Because there are many individual leach fields located in close proximity to each other, the total hydraulic load on the development area is greater than 2000 gallons per day which will require that groundwater protection concerns be addressed in the application. These concerns and requirements are found in Chapter III, Section 15 of the WQR&R. At a minimum, the following will need to be provided:

- a. Depths to groundwater across the site and flow directions.
- b. Background (ambient) water quality information, enough to establish the class of groundwater according to Chapter VIII, Section 5 and Table I.
- c. Chemical and biological characterizations of the wastes going into each septic system.
- d. General geological information; including mineralogy, thickness, hydraulic conductivity, and texture (porosity) of the overlying materials.
- e. And finally, a presentation by the engineer analyzing what this information means relative to potential groundwater impacts.

Meeting these requirements may or may not require the installation of groundwater monitoring wells. If it is determined by either the engineer or the DEQ Water Quality Division that such wells are needed, then "Permits To Construct" will need to be obtained for any monitoring wells installed.

PUBLIC WATER SUPPLY SYSTEM

15 of 20. A public water supply system is shown on the plans but no design information is included in the application. Again, an Engineering Design Report and accompanying plans and specifications must be submitted for this public water supply system. Sections 6 and 7 of Chapter XII of the WQR&R describe in detail what should be submitted for a public water supply system. Information which is required (but not limited to) includes:

- a. As-built information on the wells and cisterns involved.
- b. Pump tests on the wells.
- c. Water quality information for the well water.
- d. Other information as specified in Chapter XII, Sections 6 and 7.

16 of 20. All buildings, trailer spaces, or other service taps which are connected to this system will have to be included as part of the permitted system. If additional lines and components are added to the system later to service new areas, separate "Permits To Construct" will have to be applied for and obtained if this part of the system is not included in the plans which are approved by an initial permit.

- 17 of 20. Identify the nature of the water use at each building or service area and determine what type of backflow prevention, if any, is needed according to Chapter XII, Section 14(i). Provide details of each backflow prevention device to be installed.

CAMPGROUND WATER AND SEWER REQUIREMENTS

- 18 of 20. Separate additional water and sewer requirements specifically for campgrounds are found in PART F of Chapter XI of the WQR&R. This section includes requirements for such items as:
- a. Design and construction of service connections to individual trailer spaces.
 - b. Sanitary sewer riser requirements.
 - c. Peak water demands and storage requirements.
 - d. Other specific technical requirements for campground water and sewer systems as described in PART F.

Sufficient information needs to be submitted to demonstrate compliance with this section.

GENERAL COMMENTS AND REQUESTS

- 19 of 20. All plans, specifications, and Engineering Design Reports need to be stamped and signed by a registered Wyoming Professional Engineer (P.E.). The first set of submittals were not properly stamped.
- 20 of 20. In general, the original application package was incomplete and very poorly presented. The EDR which should have been included was left out. Also, throughout the paperwork submitted, the listed owner of the project was inconsistent. Therefore, when resubmitting the revised plans, the new submittal must be a complete and whole package and be able to "Stand Alone"! To accomplish this the following should be done:
- a. Redo the application package in a proper format appropriate for the type of project. Engineering Design Reports instead of residential septic system work sheets should be used.
 - b. Be sure that the listed ownership of the project is consistent throughout the application. Perhaps a brief outline of the corporate personnel structure could be included showing which employees are acting in what capacity and who is authorized to speak on behalf of the owner.
 - c. Include all percolation test locations and data. And finally,
 - d. Be sure that all plans, specs, and Engineering Design Reports are stamped and signed by a P.E. as required.

Review WQD #93-011
Terry Bison Ranch
February 5, 1993
Page 5

ADDITIONAL COMMENTS

- A. NOV Status Report - The applicant, Ron Thiel, needs to submit a written response to the NOV, Docket No. 2437-92, issued in December of 1992 concerning construction of wastewater facilities at this site without a permit. Specifically, the three actions identified in the cover letter attached to the NOV need to be addressed. Especially important is item #2, which requests a letter of intent describing what the immediate and future plans are for these facilities and what the estimated time frames might be.
- B. Inquires have been made about additional facilities (such as a slaughter house) which might be built. Any other facilities which would involve the disposal of wastewater will require a "Permit To Construct". This requires that an application along with the appropriate plans, specifications, and engineering design reports be submitted for review and approval before construction begins.

/jn - 30553.ltr

cc: Dennis Hemmer, Director DEQ
William Garland, Administrator - Water Quality Division
Don Pack, Laramie County Environmental Health
Stephanie Snowardt, Project Manager
1529 West College Drive
Cheyenne, Wyoming 82007



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

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

Solid Waste Management Program
(307) 777-7752

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

March 3, 1993

Ron Thiel
138 Iron Mountain Road
Cheyenne, Wyoming 82007

RE: Withdrawal of Permit To Construct application #93-011

Dear Mr. Thiel:

Your application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct permitting process as submitted.

This project has not been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and punishable with fines not to exceed \$10,000 per day of violation. If this project has already been constructed, it is your responsibility to immediately contact this office for further instruction. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules & Regulations, must be followed.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/RE/jmm 30940.1tr

3-3-93

Mr. Ron Ewald

I would like to withdraw the plans for Terry Bison Ranch application #93-011. These plans include the RU Park, General Store, Cafe and Bunkhouse.

These plans will be reorganized and redone and submitted by our new engineer Jack Noblitt.

The revised plans for the Cafe and Bunkhouse will be submitted under separate application by Intermountain.

Thank you
Stephanie Suwardt

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-012
SPECIAL CONDITIONS

Converse Avenue Phase II

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
P.O. Box 1469
Cheyenne, Wyoming 82003

to construct, install or modify Relocation existing 8 inch water lines according to the procedures and conditions of the application number 93-012. The facility is located in SW 1/4 Section 21 T 14 N R66 W 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.

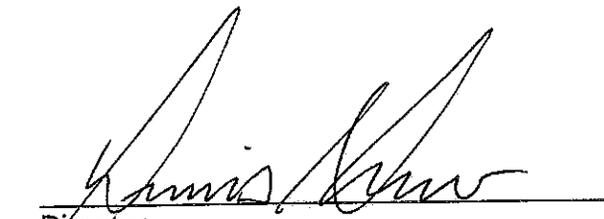
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

2-25-93

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 1. Relocated 8 inch water lines crossing under storm sewers at Ogden Road (Sheet 7) and Grandview Avenue (Sheet 6) shall be placed in a separate conduit in accordance with Section 14 (g), Chapter XII, Wyoming Water Quality Rules and Regulations.

LRR:jmm 30800.ltr

PERMIT TO CONSTRUCT

[X] New

Permit No. 93-013

[] Renewal

[] Modified

City of Rock Springs Wastewater Treatment Plant
(Name of Facility)

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

City of Rock Springs

212 D Street

Rock Springs, WY 82901

to construct a belt filter press according to the procedures and conditions of the application No. 93-013. The facility is located in SE $\frac{1}{4}$ Section 5 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.

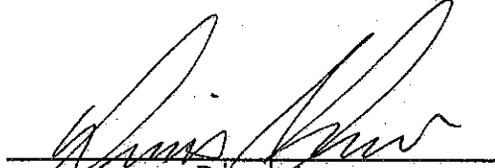
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

2-17-93

Date of Issuance

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

PERMIT TO CONSTRUCT

[X] New

PERMIT NO. 93-014

(See Attached Special Conditions)

[] Renewal

[] Modified

DOWELL SCHLUMBERGER BULK FACILITY MONITORING WELLS
(Name of Facility)

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

Dowell Schlumberger, Inc.
P. O. Box 4378
Houston, Texas 77210

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application No. 93-014. The facility is located in SE/SW Section 22, Township 50 North, Range 72 West, in the County of Campbell in the State of Wyoming. This permit shall be effective for a period of six (6) months from the date of issuance of this permit.

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

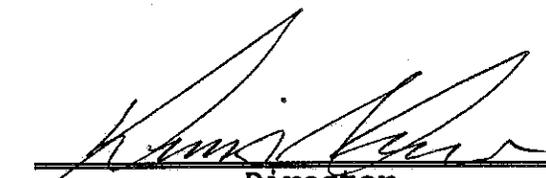
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

3-3-93

Date of Issuance

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

SCF:2/24/93

Special Conditions to Permit Number 93-014
Dowell Schlumberger Bulk Facility Monitoring Wells

- 1 of 16. 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 93-014. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 16. Monitoring well construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations (WQRR). Monitoring well casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells must be constructed from materials which have no potential to contaminate groundwater samples.
- 3 of 16. All downhole equipment shall be decontaminated between wells and/or borings to minimize the potential for cross-contamination.
- 4 of 16. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.
- 5 of 16. Pursuant to WQRR, 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.
- 6 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 WQRR. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well shall be abandoned without prior approval from the WQD.
- 7 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 using either a stamp to permanently engrave the number into the top or by writing the number in the concrete apron prior to curing.
- 8 of 16. The applicant is responsible for obtaining any Permits required by the State Engineers Office (777-7354).

Special Conditions to Permit Number 93-014
Dowell Schlumberger Bulk Facility Monitoring Wells (Continued)

- 9 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.
- 10 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. The borehole diameter shall be at least four inches larger in diameter than the casing diameter.
 - b. The screened interval shall extend at least two 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;
 - c. If PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - d. To minimize the entrance of fine grained material into the well the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to one foot above the screened interval;
 - e. A bentonite or bentonite grout (minimum two foot (2') thickness) is required from the top of the filter pack to one foot below the ground surface to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal. The remaining one foot of annular space shall be sealed with Portland cement or a sand-cement grout. A protective casing shall be cemented into place with the concrete apron sloping away from the casing;
 - f. Filter pack, annular seal, and surface seal material shall be placed in the well in a manner

Special Conditions to Permit Number 93-014
Dowell Schlumberger Bulk Facility Monitoring Wells (Continued)

such that bridging or voids will not occur;

- g. A top and bottom cap of the same material as the well casing 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. All monitor wells shall be designed to contain a minimum of three feet of water at all times;
- 11 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.
- 12 of 16. Within 45 days of monitor well installation and sampling, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A site map showing physical features, well locations and elevations;
 - b. 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 on second of latitude and longitude.
 - 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 potentiometric surface map showing the direction of groundwater movement; and
 - i. Maps showing the plumes of dissolved and free phase contaminates.
- 13 of 16. Proper well evacuation shall include removal of a

Special Conditions to Permit Number 93-014
Dowell Schlumberger Bulk Facility Monitoring Wells (Continued)

minimum of 3 casing volumes prior to sampling or pumping the well dry once, whichever occurs first. The exception being in cases where a layer of non-aqueous phase liquid (NAPL) is detected. If a layer of NAPL is detected, the thickness of the layer will be measured and recorded. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

- 14 of 16. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly for the following listed parameters:

EPA Method 8015 (with purge and trap) for TPH.
EPA Methods 601/602 (or approved alternate) for volatile and chlorinated hydrocarbons.

The results of these analyses shall be submitted to the Sheridan office in the report as stated in item #12 above. Upon submittal and review of the results of the analyses, the sampling schedule and/or parameter list may be amended.

- 15 of 16. Water collected during monitoring well development or sampling must be disposed of properly. The Applicant must contact the appropriate agency prior to disposal. The fate of any free phase liquids taken from the monitoring wells must be stated in the report as required under item #12.

- 16 of 16. 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: GPC Section Supervisor, Cheyenne

THE STATE



OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

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

Solid Waste Management Program
(307) 777-7752

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

March 11, 1993

Mr. Rick D. Bradney
Rick's Precast Concrete
1655 County Road 136
Cheyenne, Wyoming 82009

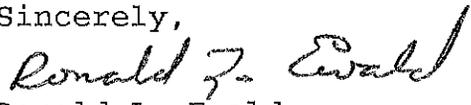
RE: Approval of Septic Tank for use in Wyoming/**THIS WAS ORIGINALLY LOGGED IN AS 93-015/THEN RECORDED AS AW SINCE PERMIT IS NOT REQUIRED.**

Dear Mr. Bradney:

The Water Quality Division (WQD) of the Wyoming Department of Environmental Quality (DEQ) has reviewed your 1000 gallon concrete septic tank design for both the single compartment and two compartment versions. The WQD finds that this septic tank design, in both configurations, meets the minimum requirements as specified in Chapter XI, Section 39 of the Water Quality Rules and Regulations (WQR&R), except for one (1) condition which must be imposed. Subsequently, your product will be placed on our list of approved septic tanks for use in Wyoming with the following condition:

"The manholes on the septic tank (one on each compartment) must be extended to the surface because there are no clean-outs included on Rick's Precast Concrete septic tanks as required."

Sincerely,


Ronald L. Ewald
Engineering Evaluator
SE District, Water Quality Division

RLE/bb/31101.ltr

cc: Septic Tank Status File
Larry Robinson, WQD
Don McKenzie, NE District Supervisor - WQD
Jeff Hermansky, NW District Supervisor - WQD
Randall Taylor, SW District Supervisor - WQD

THE STATE



OF WYOMING

JIM GERINGER
GOVERNOR



Department of Environmental Quality

1043 Coffeen Avenue, Suite D • Sheridan, Wyoming 82801

AIR QUALITY
(307) 672-6457
Fax (307) 674-6050

LAND QUALITY
(307) 672-6488
Fax (307) 672-2213

WATER QUALITY
(307) 672-6457
Fax (307) 674-6050

March 4, 1996

Ms. Shauna Doven
Western Gas Resources
12200 Pecos
Denver, CO 80234

Re: Permit to Construct application number 93-016, Kitty Gas
Plant, Gillette, WY

Dear Ms. Doven:

Your application is considered inactive and is being withdrawn under the assumption that the applicant does not wish to proceed with the permit to construct permitting process.

This project has not been permitted. The permit application was submitted for a recovery well, which was temporarily used as an initial measure for product recovery. It is my understanding that the well is currently being used as a monitor well and no groundwater is being extracted. If you have any information to the contrary, please contact me in the Sheridan office.

Sincerely,

A handwritten signature in cursive script that reads "Don Fischer".

Don Fischer
Senior Analyst
Water Quality Division, NE District

WDF/pr
cc: IPS, Cheyenne

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 93-017

Cathedral Home for Children, Lift Station & Sewer Line

This permit hereby authorizes the applicant:

Cathedral Home for Children
P.O. Box 520
Laramie, Wyoming 82070

to construct, install or modify a sewage lift station and pressure sewer line according to the procedures and conditions of the application number 93-017. The facility is located in SW 1/4 Section 16 T16N R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

6-7-93

Date of Issuance

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

RLE/mad 32653.LTR

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cathedral Home for Children, Lift Station & Sewer Line

ENGINEER: Robert J. Coffey
Coffey Engineering & Surveying, Inc.
903 Grand Avenue
Laramie, Wyoming 82070-3941

APPLICANT: Cathedral Home for Children
P.O. Box 520
Laramie, Wyoming 82070

WATER QUALITY REFERENCE NUMBER: 93-017

REVIEWING ENGINEER: Ronald L. Ewald

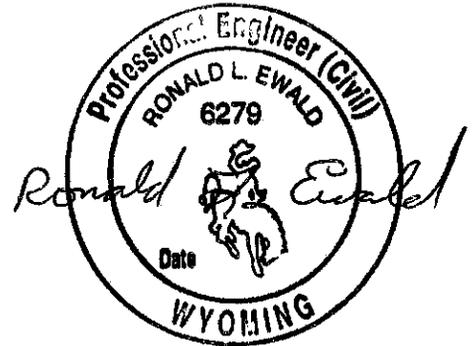
DATE OF REVIEW: March 5, 1993

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1 of 11. Variance Request / Clean-out Spacings - Your request for a variance from the 400 foot maximum spacing between clean-outs along the 1480 feet of pressure sewer line is not granted at this time. Before such a variance could be granted (and it is not a certainty that it can or will be granted) the following additional concerns must be addressed:

- a. A detailed proposal of how the sewer could be cleaned out should it somehow become clogged, including necessary equipment, needs to be provided.
- b. Additionally, the regulations require manholes at all changes in vertical alignment of sewers, which would probably be where clean-outs for pressure sewers would be placed. Please explain why this would not be necessary in your proposal for a variance.



- 2 of 11. Variance Request / Pipe Size - Your request for a variance from the minimum 4 inch diameter for a force main sewer is granted based on the information presented concerning scour velocities and the fact that very few solids (almost none) should be in the sewage because it is septic tank effluent. Therefore, the 3 inch diameter pipe is approved.
- 3 of 11. Terminal Manhole - The plans show the 3" force main terminating in the side of the bottom channel of the receiving manhole. It would be better to have the 3" force main enter on the shelf a short distance away from the channel to help prevent solids in the channel from falling into the 3" sewer and possibly clogging it.
- 4 of 11. Alternate Power Source - No alternate power source is mentioned in the plans. Please describe how alternate power can be delivered to the pump station should the main power source fail. Also, estimate the maximum down time with no power.
- 5 of 11. Pump Failure Alarms - The regulations require both an audio and a visual alarm for pump failure at a lift station of this size. The plans describe an audio alarm, but no visual alarm is mentioned. Please indicate what type and where such a visual alarm will be installed.
- 6 of 11. Lighting - The regulations require that a minimum of 30 foot-candles of light be provided within the wet well. No mention of lighting is made in the plans. Please address this issue.
- 7 of 11. Ventilation - The regulations state that, "Wetwells that are accessed infrequently shall be designed to permit the use of portable blowers that will exhaust the space and continue to supply fresh air during access periods." Please address this issue - probably best done in the O&M manual, and describe the blowers to be used. Will this equipment be available on-site, or rented, or what?
- 8 of 11. Security - Access to the wetwell should be physically secured by some means which at the very least would include some type of locking device.
- 9 of 11. Safety - Adequate and appropriate safety measures should be incorporated into the plans, including:

- a. Appropriate signs should be placed at or near the wetwell identifying the potential hazards.
 - b. This wetwell should be considered as a potential hazardous environment and treated as a confined space entry. Appropriate safety measures and procedures should be developed to address this condition and included in the O&M manual. If any special equipment is required to meet safety concerns; describe the equipment, who has access, where it will be kept, and so on.
 - c. All applicable codes, such as electrical codes, plumbing codes, Wyoming OSHA rules, or any other codes, should be followed and complied with.
- 10 of 11. Operation and Maintenance Manual - An O&M manual should be developed which not only addresses the concerns raised earlier such as security, safety, ventilation, alternate power, and so on; but which also addresses ordinary and necessary operation and maintenance requirements and procedures. Please develop such an O&M manual and submit it for review.
- 11 of 11. Cottage Septic Tank - It will be necessary to bring the manholes of the septic tank to the surface because there are no clean-outs on Vaughn Concrete Products septic tanks as required. Other than this, the septic tank is approveable.



THE STATE OF WYOMING



JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

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

December 22, 1995

CERTIFIED

Mr. Michael K. Schutte
12943 Solera Way
Poway, California 92064

RE: NON-COMPLIANCE with Annual Reporting Requirements for Permit to Construct # 93-018 for the "Diamond Horseshoe Wastewater Facility" issued on March 23, 1993.

Dear Mr. Schutte:

In March of 1993 you were issued the permit referenced above. This permit contained conditions requiring that you take measurements of the water depths in both lagoon cells, the level of the Laramie River, and water meter readings on a monthly basis. This information was then to be reported to the Water Quality Division (WQD) of the Wyoming Department of Environmental Quality (WDEQ) on an annual basis in October of each year. As of this date, our records indicate that the WQD has not received any of the required reports.

Therefore, the WQD is requesting the following:

1. That within 45 days of receipt of this letter you submit all of the relevant data and information that you have for this facility as per the permit requirements,

AND

2. That within 45 days of receipt of this letter you submit a current status report for the facility, and a plan explaining when and how you intend to come into compliance.

A copy of the original permit is included with this letter for your review. If you have any questions, please call me at (307) 777-6183.

Sincerely,

Ronald L. Ewald
Engineering Evaluator
SE District, Water Quality Division

ME/bb/55813.ltr

Enclosure: Copy of Permit # 93-018
cc: SE District Enforcement Tracking Files
Permit File # 93-018

PERMIT TO CONSTRUCT

New
Renewal
 Modified

PERMIT NO. 93-018
SPECIAL CONDITIONS
REF WOD PERMIT #84-323RR

Diamond Horseshoe Wastewater Facility

This permit hereby authorizes the applicant:

Michael K. Schutte
12943 Solera Way
Poway, California 92064

to construct, install or modify loading rates to a commercial wastewater treatment facility according to the procedures and conditions of the application number 93-018. The facility is located in SW 1/4 Section 16 T16N, R73W in the county of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

3-23-93

Date of Issuance

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

SPECIAL CONDITIONS

The sole purpose of this permit is to increase the permitted effluent inflow loading rates for the Diamond Horseshoe Commercial Wastewater Treatment Lagoon to 9,600,000 gallons per year from the previously permitted design inflow rate of 5,417,000 gallons per year approved by Permit # 84-323RR. After reviewing the new information and analysis submitted, this increase is granted with the following conditions:

- 1 of 4. The intent of the increased inflow loading authorized by this permit is to provide facilities for the continued interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Laramie Step I Wastewater Facility Plan requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated under the provisions of the 201 Plan Exemption granted on March 17, 1993 by the Albany County Planning Commission, the Albany County Board of County Commissioners, the Laramie Planning Commission, and the Laramie City Council. The operation of these facilities will be subject to any review and/or renewal requirements imposed by the 201 Plan Exemption. Finally, these

PERMIT NO. 93-018
Reference 84-323RR

facilities will only be operated until services are available through the approved regional system. These facilities will then be abandoned or integrated into the regional system in accordance with the requirements of the Facility Plan, unless the City of Laramie and Albany County jointly authorize an additional extension.

- 2 of 4. Water Depth Monitoring - Previously, water depth staffs were required to be installed in the north cell and on the east side of the Laramie River. An additional water depth staff must now be installed in the south cell and referenced to the same elevation bench mark as the previous depth staffs. Also, the previously installed water depth staffs must be repaired or replaced as necessary.
- 3 of 4. Monitoring and Reporting Requirements - Previously, water meters were to have been installed on all users of the lagoon. Records of inflows to the lagoon should be kept. Additionally, the depth of the water in both cells of the lagoon and the Laramie River should be recorded at least once per month, and more often in the spring (approximately April through June) as necessary when the river is at its highest stages. A yearly summary of this inflow and water depth data shall be prepared and submitted to the DEQ/WQD. Send this annual report in October (for water year October 1 to September 30) to:

Department of Environmental Quality
Water Quality Division
Attn. Southeast District Supervisor
Herschler Building, 4-West
Cheyenne, Wyoming 82002

Include a cover letter which describes the purpose of the report and which references Permit # 93-018.

- 4 of 4. Overfill Reporting Requirements - If the depth of either cell of this lagoon system is above the maximum design depth (water depth above the 102.4 foot level on the depth staffs) for three(3) consecutive months, the operator must immediately notify the DEQ/WQD at the address indicated in #3 above. After DEQ/WQD is notified, the operator shall work with the WQD to determine what type of corrective action, if any, is necessary.

RLE:jmm 31331.ltr

cc: City of Laramie/Albany County Planning Office

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 93-019R

FLEISCHLI OIL BULK PLANT PILOT SCALE REMEDIAL SYSTEM
(Name of Facility)

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

Fleischli Oil Company
P. O. Box 487
Cheyenne, Wyoming 82003

to construct, install or modify pilot scale remedial system according to the procedures and conditions of the application No. 93-019. The facility is located in SE/SE Section 15, Township 19 North, Range 105 West (151 Industrial Drive, Rock Springs), 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 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, Groundwater Section, 250 Lincoln, Lander, Wyoming 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3-4-93

Date of Issuance

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

SCF:3/2/93

cc: GPC Section Supervisor, Cheyenne

PERMIT TO CONSTRUCT

New

PERMIT NO. 93-020

(See Attached Special Conditions)

Renewal

Modified

GOULD STREET GROUNDWATER MONITORING WELLS

(Name of Facility)

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

City of Sheridan
P. O. Box 848
Sheridan, Wyoming 82801

to construct, install or modify groundwater monitoring wells according to the procedures and conditions of the application No. 93-020. The facility is located in NE/SE Section 27, Township 56 North, Range 84 West, in the County of Sheridan in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the state does not in any way waive its sovereign immunity.

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

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

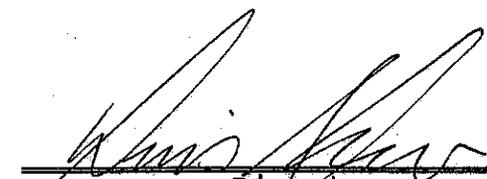
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

2-2-93

Date of Issuance

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

✓
SCF:1/26/93

Special Conditions to Permit Number 93-020
Gould Street Groundwater Monitoring Wells

- 1 of 16. 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 93-020. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 16. Monitoring well construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations (WQRR). Monitoring well casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells must be constructed from materials which have no potential to contaminate groundwater samples.
- 3 of 16. All downhole equipment shall be decontaminated between wells and/or borings to minimize the potential for cross-contamination.
- 4 of 16. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.
- 5 of 16. Pursuant to WQRR, 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.
- 6 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 WQRR. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well shall be abandoned without prior approval from the WQD.
- 7 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 using either a stamp to permanently engrave the number into the top or by writing the number in the concrete apron prior to curing.
- 8 of 16. The applicant is responsible for obtaining any Permits required by the State Engineers Office (777-7354).

Special Conditions to Permit Number 93-020
Gould Street Groundwater Monitoring Wells (Continued)

- 9 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.
- 10 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. The borehole diameter shall be at least four inches larger in diameter than the casing diameter.
 - b. The screened interval shall extend at least two 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;
 - c. If PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;
 - d. To minimize the entrance of fine grained material into the well the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to one foot above the screened interval;
 - e. A bentonite or bentonite grout (minimum two foot (2') thickness) is required from the top of the filter pack to one foot below the ground surface to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal. The remaining one foot of annular space shall be sealed with Portland cement or a sand-cement grout. A protective casing shall be cemented into place with the concrete apron sloping away from the casing;
 - f. Filter pack, annular seal, and surface seal

Special Conditions to Permit Number 93-020
Gould Street Groundwater Monitoring Wells (Continued)

material shall be placed in the well in a manner such that bridging or voids will not occur;

- g. A top and bottom cap of the same material as the well casing 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. All monitor wells shall be designed to contain a minimum of three feet of water at all times;
- 11 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.
- 12 of 16. Within 90 days of issuance of this permit, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:
- a. A site map showing physical features, well locations and elevations;
 - b. 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.
 - 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; and
 - h. A potentiometric surface map showing the direction of groundwater movement.
- 13 of 16. 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

Special Conditions to Permit Number 93-020
Gould Street Groundwater Monitoring Wells (Continued)

collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

- 14 of 16. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for the following listed parameters:

EPA Method 8015 (with purge and trap) for TPH.
EPA Methods 524.2 for VOCs.

The results of these analyses shall be submitted to the Sheridan office in the report as stated in item #12 above. Upon submittal and review of the results of the analyses, the sampling schedule and/or parameter list may be amended.

- 15 of 16. Water collected during monitoring well development or sampling must be disposed of properly. The Applicant must contact the appropriate agency prior to disposal.
- 16 of 16. 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: GPC Section Supervisor, Cheyenne

RF



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES (307) 332-5085	AIR QUALITY (307) 332-6755	LAND QUALITY (307) 332-3047	SOLID & HAZARDOUS WASTE (307) 332-6924	WATER QUALITY (307) 332-3144
-----------------------------------	-------------------------------	--------------------------------	---	---------------------------------

January 28, 1993

Mr. Glen Thomas
UPRR
1416 Dodge Street, Room 930
Omaha, NE 68179

Re: Subsurface contamination Investigation, Green River Water Treatment Plant site.
DEQ/WQD Permit Number 93-021 "as-built".

Dear Mr. Thomas,

I have performed a review of the workplan and report of investigations for the above referenced site and have the following comments:

DEQ/WQD Permit To Construct

Work done at this site was not properly permitted by the Department of Environmental Quality, Water Quality Division (DEQ/WQD) prior to initiation. I understand that this situation was due to the urgent nature of the work and that your consultant (USPCI) was in contact with Kevin Frederick of the DEQ/WQD concerning the project. After reviewing the work plan sent to Kevin dated 11/4/92, I have determined that all construction standards required by the DEQ/WQD have been met. Therefore, the work will be accepted and permitted "As-built" and has been assigned Permit To Construct Number 93-021 (copy enclosed).

Review of Preliminary Investigation Report

A review of this report has determined the following:

1. The source and extent (horizontal and vertical) of contamination found at the site has not been defined. Further work needs to be done to provide this information for both soil and water, and for areas beyond the boundaries of the Water Treatment Plant site that may be affected. Further work can be performed under this authorization so long as the work plan is approved beforehand and findings (including as-built diagrams) are submitted to the DEQ/WQD for review and comment. This information should be sent

to the Lander office addressed to my attention.

2. New and existing monitoring wells should be sampled initially after adequate development and stabilization of water levels, usually within two weeks of installation. Thereafter the wells should be sampled quarterly. It may be possible to incorporate this sampling with the adjacent UPRR site currently under remediation. All water quality data should be presented graphically to facilitate trend analysis. The data and explanatory text should be submitted to the Lander DEQ/WQD office as soon as it is available. The water should continue to be analyzed for the parameters detailed in the 11/4/92 work plan.

Analytical work should determine exactly what the unknown gasoline range hydrocarbons described on page 7, paragraph 1 are. Also, the extent of contamination by volatile and semivolatile organics that were found in Well WP-SB-2 should be fully investigated. Previous investigations at the adjacent UPRR site indicate that the source of these contaminants may be the old "drying pond".

Ground water should be sampled for **background water quality** to establish its classification according to Department of Environmental Quality, Water Quality Division (DEQ/WQD) Chapter VIII Rules and Regulations. The background sample should be from a non-impacted well and be analyzed for the entire list of parameters on page 9 of Chapter VIII (less SAR, RSC, and the radionuclides). Background water quality should be established by two successive sampling events. Thereafter, the background well should be sampled for the parameter list applied to the other wells as detailed above.

3. Ground water level information and a piezometric surface map showing ground water gradient should be included in the report. This information should also be tied to the work being done at the adjacent UPRR site. Of particular interest in this regard is the impact of the infiltration gallery located near the former roundhouse and its impact on the local gradient and contaminant distribution. Since free product and considerable soil and water contamination has been reported in the area between the infiltration gallery and the water treatment plant site, is it possible that this could be the source, at least in part?

Review of the piezometric surface maps, ground water level data, and geological reports indicate that perhaps there are two shallow aquifer systems (a terrace system and an alluvial system) at the site rather than one. This may explain the radical gradient changes mentioned on page 13 of the report.

My copy of the report skips from page 13 to page 16 with Figure 3 in between. Is this a numbering error or am I missing a page?

4. Several inconsistencies were noted in the report and should be corrected:

- ☛ Page 3, last paragraph states that hydrocarbon sheens were noted only on TP-2 and TP-4 while Figure 4 and other information suggests that all the pits except TP-1 had a sheen.

Pat Spieles, USPCI, Inc.
Green River WTP Site
January 27, 1993
Page 3

- ☛ Page 5, paragraph 1 states that well WP-MW-1 was located on the water treatment plant site, but the maps show it outside the property boundary. Is the well spotted properly on the map or is the property boundary different than shown?
- ☛ Page 7, paragraph 2 details discovery of several volatile and semivolatile compounds (reiterated in Table 2) in soil boring WP-SB-2, yet the conclusions on page 16 state that "RCRA-characteristic hazardous wastes were not detected in soil or ground water samples."
- ☛ Page 13, last paragraph states that "...the majority of the property contains slight (<100 mg/kg) hydrocarbon contamination." The regulatory level allowed by the DEQ/WQD to remain in the soil in a shallow ground water area is 30 mg/kg TPH and any contamination above that level will have to be remediated. Creation of a soil TPH isoconcentration map would be very helpful for remediation planning.
- ☛ Figure 4 shows free product was found in well WP-MW-1, yet analytical data and text do not support this.

Remediation Plan

Once the extent and level of contamination has been determined a remedial plan will need to be developed and implemented. Any remedial work will also need to be reviewed and permitted by the DEQ/WQD prior to initiation.

Please contact me should you have any questions. I will make every effort to expedite review of your work plans for future work in order to keep this investigation moving quickly.

Sincerely,



Doug Gilmer, P.G.
Hydrogeologist
Water Quality Division

xc: Pat Spieles
USPCI
5665 Flatiron Parkway
Boulder, CO 80301

File (2)

dg/UPRR\UPRR.LTR

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-022RR

Nordic Ranches Water System
(Name of Facility)

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

Clarence Reinhart

P. O. Box 258

Alpine, WY 83128

to construct a water system according to the procedures and conditions of the application No. 93-022RR. The facility is located in Sections 25 and 26, T.36N., R.119W. in the County of Lincoln, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

allowed under this permit. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this permit, the State does not in any way waive its sovereign immunity.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

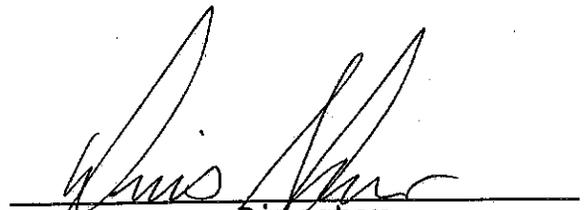
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

3-12-93

Date of Issuance

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

RT:mam

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 93-023R

Smith Oilfield Services wastewater disposal

This permit hereby authorizes the applicant:

Smith Oilfield Services
P.O. Box 1109
Thermopolis, Wyoming 82443

to construct, install or modify Commercial Collection System according to the procedures and conditions of the application number 93-023R. The facility is located in NW1/4, NE1/4, Section 11, T42N, R95W in the county of Hot Springs County, 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: 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.

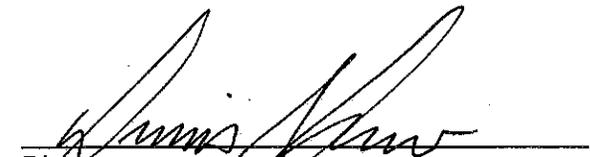
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

4/16/93

Date of Issuance

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

CONDITIONS FOR PERMIT TO CONSTRUCT 93-023R

1. A variance is hereby granted from the requirements of Chapter XI, Section 9(c)(ii)(G) which requires that all sumps on sewer wetwells have at least 50 gallons capacity. The plans submitted show the use of a standard Hydr-o-matic sump with a capacity of 47 gallons.
2. A variance is hereby granted from the requirements of Chapter XI, Section 9(b)(vi) which lists types of pipe approved for pressure sewer pipe. High density polyethylene pipe is not on the approved list, but has been shown to be high quality pipe ideally suited for this application. Previous variances have been granted for the use of this pipe within the same sewer district.
3. Within 90 days of the installation covered by this permit, the permittee shall submit a waste management plan for all industrial wastes generated on this property. This plan shall include provisions for the collection, storage, and proper disposal of all industrial wastes previously discharged to the groundwater. Failure to provide this plan is a violation of this permit and a violation of Item 2 of the Administrative Order issued on this property, Docket Number 2319-91.

RFL/bb/31710.ltr
cc: Jeff Hermansky, Lander WQD
Jerald B. Crews, Cardinal Design Group

**REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION**

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Smith Oilfield Services, Wastewater Disposal System

ENGINEER: Jerald B. Crews, Cardinal Design Group

APPLICANT: Smith Oilfield Services

WATER QUALITY DIVISION REFERENCE NUMBER: 93-023

REVIEWING ENGINEER: ROBERT F. LUCHT, P.E.

DATE OF REVIEW: 02/03/1993

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. Chapter XI, Section 9(c)(ii)(G) requires that the sump chamber be a minimum of 50 gallons capacity. No information about the size of this chamber has been provided. Chapter XI, Section 9(c)(ii)(C) requires that the minimum velocity in a pressure sewer pipe be 2.5 fps. No information has been provided with which to determine if this standard has been met. In general, all sections of Chapter XI, Section 9(c)(ii) must be complied with.

2. Chapter XI, Section 6 requires an engineering design report. This report shall contain such information as the "average, maximum day and peak flows" [subsection (b)(ii)]; "a letter of acceptance from the municipality, sewer district" [subsection (b)(iv)]; and a statement of the "Scope and purpose" describing "existing conditions, problems, and the proposed solution" [subsection (a)]. In light of the enforcement action pending, this engineering design report shall also include a statement describing how all industrial wastes generated on this site are disposed of, if not connected to the sewer. In general, general all sections of Chapter XI, Section 6(a) and 6(b) must be complied with.

3. Chapter XI, Section 7(b)(ii) requires that all sewer plans include a profile of that line on the same sheet as the plan view. Without this profile, it is impossible for this department to determine if Chapter XI, Section 9(c)(ii)(A), which requires that pressure sewers be "located to protect them from freezing and frost heave." has been met or not.

Review 92-023
February 3, 1993
Page 2

4. Chapter XI, Section 9(b)(vi) lists those types of pipe which are approved for use as pressure sewer pipe. Polyethylene pipe is not on this list. These plans must show one of the approved pipe materials on this list. Chapter XI, Section 9(b)(v) requires that performance tests be specified. No formal specifications have been submitted with this plan.

RFL/bb/30490.ltr

cc: Jeff Hermansky/Northwest District

PERMIT TO CONSTRUCT

New
Renewal
 Modified - CHANGE OF OWNER

PERMIT NO. 93-024
SPECIAL CONDITIONS REF. NO. 75-97

Wyoming Child and Family Development, Inc. On-Site Wastewater System

This permit hereby authorizes the applicant:

Wyoming Child and Family Development Inc.
P.O. Box 100
Guernsey, Wyoming 82241

to construct, install or modify on-site wastewater system according to the procedures and conditions of the application number 75-097. The facility is located in W½ Section 1 T24N R68W 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

November 4, 1975
Date of Issuance

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

SPECIAL CONDITIONS REF. NO. 75-97

1 of 1. Terms and conditions of the original permit are transferred to and become the responsibility of the new owner.

LRR:jmm 30470.ltr

RF

PERMIT TRANSFER REQUEST

Date: _____

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

To Whom It May Concern:

American International Manufacturing Corporation intends to transfer ownership of the facility
(Original Owner)

associated with Permit Number 93-025 to Lloyd Putnam with L. L. Enterprises
(New Owner)

on _____. It is requested that the said permit be transferred to the new owner in
(Date)

accordance with section 10(c) and (d) of Chapter III, Wyoming Water Quality Rules and Regulations. The new owner agrees to accept and be bound by the provisions of the permit and any amendments, agrees to construct and operate the facility in accordance with the approved permit and agrees to accept responsibility for the facility's compliance with applicable standards and permit conditions, including the responsibility to perform any necessary corrective actions.

The original owner shall retain responsibility for the facility according to the terms of the original permit until the application for permit transfer is approved by the Administrator.

Please transfer the permit to the transferee's name and issue a modified permit reflecting the transfer of ownership. Terms and conditions of the original permit are transferred to and become the responsibility of the new owner.

Signature of Original Owner

Signature of New Owner

Name _____

Name _____

Address _____

Address _____

Telephone _____

Telephone _____

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 93-025
SPECIAL CONDITIONS

AIMC Monitoring Wells

This permit hereby authorizes the applicant:

American International Manufacturing Corporation
P.O. Box 7037
Fort Worth, Texas 76111

to construct, install or modify a system of environmental monitoring wells according to the procedures and conditions of the application number 93-025. The facility is located in SW1/4 Section 27, T34N, R80W, 6th P.M. in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

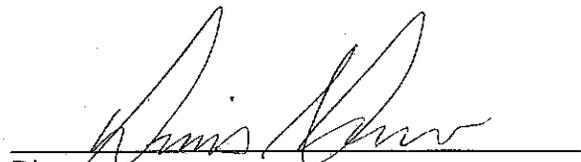
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

2/4/93

Date of Issuance

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

SPECIAL CONDITIONS

- 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 93-025. 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.

PERMIT NO. 93-025

- 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 at least five feet below the lowest expected groundwater level. 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 an 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.

PERMIT NO. 93-025

- 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 or the exact state plane coordinate 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, or the nearest 1 foot in the state plane;
 - d. Final 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 data 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 and the groundwater analyzed quarterly for the following listed parameters:
- a. Total Petroleum Hydrocarbons using EPA Method 418.1;

PERMIT NO. 93-025

- b. Barium using EPA 200 series methods;
- c. Cadmium using EPA 200 series methods;
- d. Chromium using EPA 200 series methods;
- e. Lead using EPA 200 series methods;
- f. Mercury using EPA 200 series methods;
- g. Selenium using EPA 200 series methods;
- h. Purgeable Aromatic and Halogenated Hydrocarbons using EPA Method 624;
- i. Acid, Neutral, and Base Extractable Hydrocarbons using EPA Method 625;
- j. 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; and
- k. 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 April, 1993.

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.

RFL/bb/30488.ltr

PERMIT TRANSFER REQUEST

RECEIVED

DEC 01 1994

WATER QUALITY DIVISION
WYOMING

Date: 11/15/94

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

To Whom It May Concern:

American International Manufacturing Corporation ^{has transferred} ~~intends to transfer~~ ownership of the facility
(Original Owner)
associated with Permit Number 93-025 to Lloyd Putnam with L. L. Enterprises
(New Owner)

on 4th Qtr. 1993 (Date). It is requested that the said permit be transferred to the new owner in

accordance with section 10(c) and (d) of Chapter III, Wyoming Water Quality Rules and Regulations. The new owner agrees to accept and be bound by the provisions of the permit and any amendments, agrees to construct and operate the facility in accordance with the approved permit and agrees to accept responsibility for the facility's compliance with applicable standards and permit conditions, including the responsibility to perform any necessary corrective actions.

The original owner shall retain responsibility for the facility according to the terms of the original permit until the application for permit transfer is approved by the Administrator.

Please transfer the permit to the transferee's name and issue a modified permit reflecting the transfer of ownership. Terms and conditions of the original permit are transferred to an become the responsibility of the new owner.

[Signature] President
Signature of Original Owner

X [Signature]
Signature of New Owner

Name American International Manufacturing Corp

Name Lloyd Putnam - L.L. Enterprises

Address _____

Address _____

P.O. Box 7037

P.O. Box 1655

Ft Worth, TX 76111

Orin, WY. 82644

Telephone (810) 347-9134

Telephone (307) 473-8745

AMERICAN

INTERNATIONAL MANUFACTURING CORPORATION

October 24, 1994

OCT 27 1994

Mr. Robert Lucht, P.E. and P.G.
Wyoming Department of Environmental Quality
Herschler Building, 4th floor West Wing
122 West 25th Street
Cheyenne, Wyoming 82002

Re: Monitoring Wells Located at 2663 Oil Drive

Dear Mr. Lucht:

American International Manufacturing Corporation has sold its interest and transferred title to the property located at 2663 Oil Drive in Casper, Wyoming. The new property owner is Lloyd Putnam with L.L. Enterprises in Mills, Wyoming.

I am herewith requesting that "Permit to Construct 93-025" be transferred from American International Manufacturing Corp. to Lloyd Putnam with L.L. Enterprises.

Mr. Putnam's address is Box 1655, Mills, Wyoming, 82644, and can be reached at (307) 473-8745 or by fax at (307) 473-2153.

My phone number is (810) 347-9134 and fax number is (810) 349-5995.

Sincerely,



Donald W. Troffholz
President

OIL FIELD EQUIPMENT SINCE 1924

P.O. BOX 7037 • FORT WORTH, TEXAS 76111 • TELEPHONE 817/888-2801 • TELEX 704817 • FACSIMILE 817/881-8689

• DALLAS, TEXAS • MIDLAND, TEXAS • ODESSA, TEXAS • BAKERSFIELD, CALIFORNIA • HOUSTON, TEXAS •
• OKLAHOMA CITY, OKLAHOMA • DENVER, COLORADO • CASPER, WYOMING •

PERMIT TO CONSTRUCT

New

Permit No. 93-026R

Renewal

Modified

See also 91-178R

Crossroads West Park/Trap Club Potable Water Supply
(Name of Facility)

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

Sweetwater County Recreation Board

731 "C" Street, Room 110

Rock Springs, WY 82901

to construct a waterline and appurtenances according to the procedures and conditions of the application No. 93-026R. The facility is located in NW SW $\frac{1}{4}$, Section 32, T.19N., R.105W. 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.

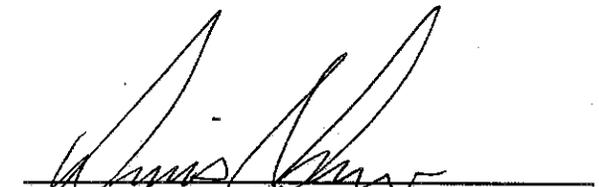
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

3-12-93

Date of Issuance

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

RT:mam

PERMIT TO CONSTRUCT

New

Permit No. 93-027R

Renewal

Modified

Von Holtum Fire Hydrant
(Name of Facility)

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

William P. Von Holtum

380 Cedar Street

Lander, WY 82520

to install a fire hydrant and valve according to the procedures and conditions of the application No. 93-027R. The facility is located in SW1/4SW1/4 Sec. 17. T33N, R99W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two 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.

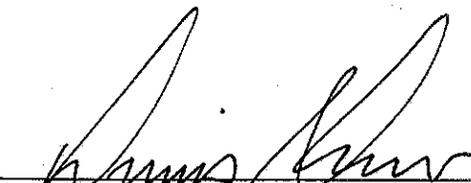
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

4-12-93

Date of Issuance

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

JH:fk

PERMIT TO CONSTRUCT

New

PERMIT NO. 93-028

Renewal

Modified

OGDEN DRISKILL HOME
(Name of Facility)

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

Bear Lodge Cattle Company
% Ogden Driskill
P.O. Box 45
Devils Tower, WY 82714

to construct, install or modify a wastewater treatment facility according to the procedures and conditions of the application No. 93-028. The facility is located in the SE/4, Section 8, Township 53 North, Range 65 West, in the County of Crook in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

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

2-17-93

Date of Issuance

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

JAS/pr:02/11/93
AS
AK

PERMIT TO CONSTRUCT

New

Permit No. 93-029

Renewal

Modified

Denniston Septic Tank/Leach Field
(Name of Facility)

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

Jerry Denniston

P.O. Box 242

Greybull, WY 82426

to construct a septic tank/leach field according to the procedures and conditions of the application No. 93-029. The facility is located in NW¼ NW¼ Section 17, T51N, R94W 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.

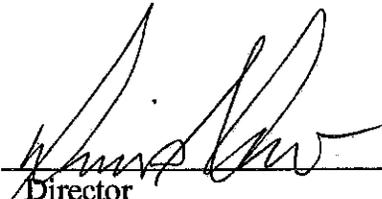
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

3-12-93
Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

New

Permit No. 93-030

Renewal

Modified

Water Treatment, Pumping, and Transmission Facilities
(Name of Facility)

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

Joint Powers Water Board

165 Railroad Ave., Suite C

Green River, WY 82935

to install a series of backhoe test pits and test holes for subsurface contamination assessment according to the procedures and conditions of the application No. 93-030. The facility is located in NW $\frac{1}{4}$ Section 22, T18N, R117W 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.

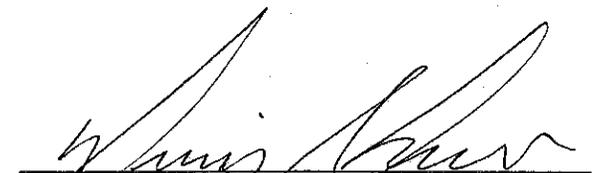
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

2-17-93

Date of Issuance

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

DG/jyi

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-031

Thermopolis Water Treatment Plant
(Name of Facility)

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

Town of Thermopolis

P.O. Box 603

Thermopolis, WY 82443

to construct a new filter underdrains and raise the spray bars according to the procedures and conditions of the application No. 93-031. The facility is located in SW¼ Section 1, T42N, R95W in the County of Hot Springs, 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.

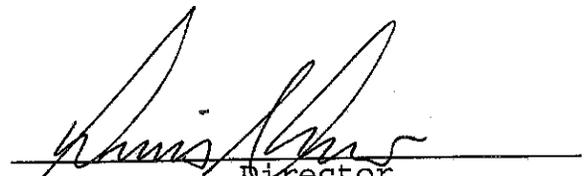
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

2-22-93
Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 93-032
SPECIAL CONDITIONS

Pier 1 Drive, Water & Sewer Relocation

This permit hereby authorizes the applicant:

American National Bank
20th St. & Capitol Ave.
Cheyenne, Wyoming 82001

to construct, install or modify water and sewer line relocations according to the procedures and conditions of the application number 93-032. The facility is located in N 1/2 Section 29 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.

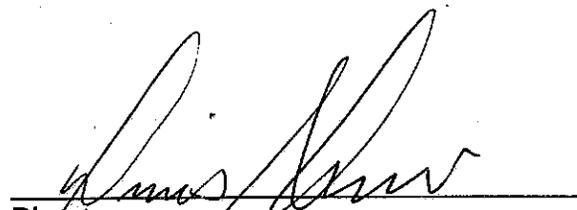
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

3-11-93

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 1. At approximately 8 feet west of Manhole #3 the new sewer line will cross below an existing water line. The new sewer line is very deep and crosses well below the water line. Special care will have to be taken in this area to be sure that when the trench below the water line is refilled it is properly backfilled and compacted to support the existing water line. If necessary, the water line will need to be specially supported to protect it from possible damage due to unexpected settling.

RLE:jmm 31089.ltr

file

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-033

Water and Sewer Relocation, Brownfield & Center, Douglas, Wyoming

This permit hereby authorizes the applicant:

City of Douglas
P.O. Box 1030
Douglas, Wyoming 82633

to construct, install or modify water and sewer line relocations according to the procedures and conditions of the application number 93-033. The facility is located in SE ¼ NE ¼, NE ¼ SE ¼, Section 8 T 32 N R 71 W in the county of Converse, 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.

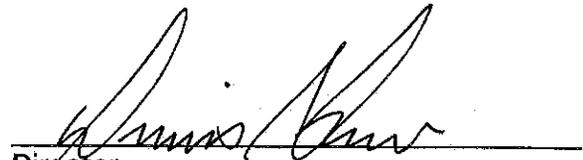
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

4-12-93

Date of Issuance

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

LRR/nc 31527.LTR

cc: John Lambert, P O Box 34, Douglas, WY 82633

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Wyoming Department of Transportation
Water and sewer line relocations, Center Street and
Brownfield Road, Douglas, Wyoming.

ENGINEER: John A. Lambert
P.O. Box 34
Douglas, Wyoming

APPLICANT: Wyoming Department of Transportation

WATER QUALITY REFERENCE NUMBER: 93-033

APPROVING ENGINEER: Lawrence Robinson

DATE OF REVIEW: 3-12-93

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1. Provide three copies of completed Chapter III, Application for Permit to Construct. Blank copies are enclosed.
2. Provide three copies of all plans and specifications.
3. Reference is made to WDT Standard Specifications. I am not familiar with these specifications and DEQ/WQD has not reviewed and approved them as consistent with our standards as contained in Chapters XI and XII, Wyoming Water Quality Rules and Regulations. Without a copy of these specifications, the information submitted is incomplete for excavation and bedding, manholes and thrust blocking.
4. The information submitted does not identify the specific water and sewer lines to be abandoned. This information should be provided.
5. Provide an indication from the City of Douglas that the proposed system will maintain a minimum pressure of 20 psi under all conditions of flow and a normal working pressure of 35 psi as required in Section 14 (b) (i), Chapter XII, Wyoming Water Quality Rules and Regulations.



6. The Special Provisions specify separation of water and sewer lines in a manner that is consistent with the requirements of Chapters XI and XII. The plan and profile drawings, however, do not locate or identify water and sewer crossings. Vertical separation distances should be identified at the following locations:
- a. crossing of 12" water line and the 15" sewer between MH #1 and MH #2.
 - b. crossing of 12" water line and the 8" future sewer service line north from MH #2.
 - c. two crossings of existing water lines (if not abandoned) and the 15" sewer between MH #2 and MH #3.
 - d. crossing of the 6" service sewer from station 2+30 of the sewer line between MH #2 and MH #3 and the proposed 6" water line in Brownfield Road.
 - e. crossing of the 8" future sewer line from MH #3 and the existing water line in Brownfield Road.

LRR/bb/31139.LTR



THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

Administration
(307) 777-7937

Air Quality Division
(307) 777-7391

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

Solid Waste Management Program
(307) 777-7762

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

January 4, 1994

Mr. Rob Gronewold
Frontier Refining, Inc.
P.O. Box 1588
Cheyenne, WY 82003-1588

**Re: Permit to Construct #93-034R
Pilot-Scale Aeration Biotreatment System
Frontier Refinery, Cheyenne, WY**

Dear Mr. Gronewold:

The Water Quality Division (WQD) has reviewed the referenced Permit to Construct application materials. The enclosed Permit to Construct authorizes Frontier to install a pilot-scale aeration biotreatment system. Additional 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 - 40001.ltr

enclosures: Permit to Construct
Groundwater Section Review Form

xc: 1993 Southeast District Review Forms
Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
✓IPS Section, Cheyenne
David E. Hogle, 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: Pilot-Scale Aeration Biotreatment System

APPLICANT: Frontier Refining, Inc.
P.O. Box 1588
Cheyenne, WY 82003-1588
(307) 634-3551

CONSULTANT: Remediation Technologies, Inc.
23 Old Town Square, Suite 250
Fort Collins, CO 80524
(307) 493-3700

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: **93-034R**

TITLE: Application for Permit to Construct Pilot-Scale Aeration Biotreatment System

PROPOSAL **PLANS** **REPORT**

DATE ON PROPOSAL/PLANS/REPORT: September 23, 1993

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

YES **NO** (#90-051, #90-353)

REVIEWING GEOLOGIST: Kevin Frederick, P.G., Supervisor, GPC Program

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

DATE OF LAST REVIEW: July 16, 1993

DATE OF THIS REVIEW: January 4, 1994

ACTION: **AUTHORIZED**

COMMENTS: GROUNDWATER SECTION

I. REQUEST/REQUIREMENTS/RECOMMENDATIONS:

GENERAL COMMENTS:

1. Issuance of this Permit does not relieve Frontier from implementing a corrective action plan to address contamination which has been identified down-gradient from the southern property boundary.
 - a. Within sixty (60) days, Frontier shall submit a plan and schedule to implement corrective action to contain and remediate all contamination which is migrating or has migrated off-site from the refinery.
2. All soil excavated during construction of the pilot-scale aeration system must be disposed of or treated in a way that meets DEQ/Solid & Hazardous Waste Division requirements. Contact DEQ/SHWM, Cheyenne at (307) 777-7752.
3. WDEQ/WQD authorizes Permit to Construct #93-034R under the following **CONDITIONS:**

PILOT-SCALE AERATION BIOTREATMENT SYSTEM CONDITIONS

1. The applicant will notify the Cheyenne office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.
2. The applicant will provide immediate oral and/or written notice to WDEQ/WQD, Cheyenne, (307) 777-7781, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
3. Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 122 W. 25th St., Cheyenne, WY 82002, on the form provided (CERTIFICATION OF COMPLETION), the following information.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or,
 - d. Certification the facility was completed with changes or modifications. If any modifications or changes are done during construction of system (i.e., air sparging well spacing, etc.), 'as-built' drawings and specifications are to be submitted to WDEQ/WQD, Cheyenne, and if required, certified and signed by an Professional Engineer.

Frontier Refining, Inc.

Pilot-Scale Aeration Biotreatment System

Application for Permit to Construct #93-034R

Page 3

4. A final report shall be submitted within sixty (60) days of the first anniversary date of system start-up. The final report shall include an evaluation of the system's performance in meeting the objective of treating dissolved phase groundwater contamination along Frontier's southern property line. The report shall also include recommended future actions for operation of this system. If the system is to continue operations on a long term basis (greater than 1 year), a draft Operation & Maintenance (O & M) manual shall be submitted to WDEQ/WQD for approval as set forth in Condition 9. Contingent upon approval by WDEQ/WQD, the proposed operating requirements and any additional requirements shall be adhered to during long term operation of this system.
5. Any future expansions of the pilot-scale system will require the issuance of a new permit by WDEQ/WQD. The application for the permit to construct shall include three copies of engineering plans and specifications, design data, and any other pertinent information. The theoretical information serving as the basis for design presented in application materials for Permit 93-034R need not be resubmitted within a permit application for an expansion.
6. The authorization of this permit is **contingent on the WDEQ/Air Quality Division (AQD) approval**. Prior to commencement of construction, WDEQ/WQD, Cheyenne, shall be notified of WDEQ/AQD's approval to operate this pilot-scale system without a AQD permit.
7. The proposed first (three-month) monitoring plan is sufficient at this time. The air injection system and subsurface monitoring during the initial tests on AI-6 shall be performed to attain empirical data for determining the radius of influence (ROI) and the most efficient operating conditions (air flow rate and pressure). The well spacing of the constructed air injection wells shall conservatively insure optimum performance of the system (i.e., adequate overlap of ROI of adjacent wells). The report submitted after the first three months of operation shall contain all monitoring and sampling data taken during this period. The proposed second (nine-month) monitoring plan shall be adhered to, unless changes are required upon WDEQ/WQD's review of the first (three-month) report.
8. Dependent upon the analytical sampling results of the two Geoprobes, WDEQ/WQD may require the installation of permanent groundwater monitoring wells at downgradient locations from the pilot-scale system.
9. If this system is to be operated on a long term basis (greater than 1 year), an Operation & Maintenance (O & M) Manual for the facility shall be submitted to WDEQ/WQD for approval. Items to be included in the O & M Manual 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. Performance monitoring plan (i.e., sampling and monitoring frequencies, parameter lists, operating flow rates, etc.) and the reporting schedules for submitting results to WDEQ/WQD.
 - d. Contingency plans in the event of any equipment failure.

10. Within sixty (60) days after the first three months of operation of the pilot-scale system, a report shall be submitted to WDEQ/WQD for review. In addition to the items identified in the work plan on p. 4-21 and 4-22, Section 4.6, this report shall include:
 - a. A description of the pilot-scale tests performed and an analysis of the empirical data from the tests which includes:
 - (1) performance results (ROI's, volatilization and bio-remediation effects on dissolved contaminant concentrations, etc.);
 - (2) documentation of any downtime, problems encountered and responses taken.
 - b. Well completion diagrams for the air injection, observation, and monitoring wells (include boring logs which illustrate lithology);
 - c. Results from the soil sampling (i.e., neutralization potential and presence of hydrocarbon degrading and nitrifying bacteria);
 - d. Empirical data shall be presented in tabular form (dissolved BTEX and ammonia as nitrogen concentrations, etc.) and in graphical form (soil vapor pressures and VOC concentrations, and water table elevation vs. distance from the injection well for the differing flow rate of each pilot-scale test), and;
 - e. Plan view maps of the site illustrating:
 - (1) the ROI of air injection wells (verified by pilot-scale results);
 - (2) iso-concentration maps of the dissolved contaminants;
 - (3) potentiometric surface (water table elevations) prior to, and after system start-up, and;
 - (4) locations of all existing air injection, observation and monitoring wells.
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 WQD Rules and Regulations Chapter XI, Part G. However, a sufficient seal shall be installed according to standard engineering practice. This deviation facilitates the placement of the top of the well screen at or near the high water table level, enabling more representative groundwater samples and measurements of vadose zone organic vapors and pressures.

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 93-34R
SPECIAL CONDITIONS

Frontier Refinery

This permit hereby authorizes the applicant:

Frontier Refining Inc.
P.O. Box 1588
Cheyenne, WY 82003-1588

to construct, install or modify pilot-scale aeration biotreatment system according to the procedures and conditions of the application number 93-34R. The facility is located in Section 4, T13N, R66W in the county of Laramie, in the State of 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.

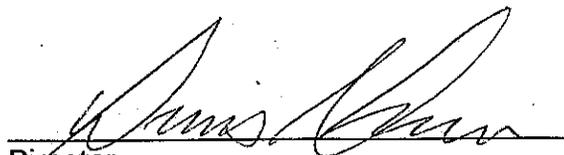
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: SE District Supervisor,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

1-4-94
Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 11. The applicant will notify the Cheyenne office of the Department of Environmental Quality, Water Quality Division, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 11. The applicant will provide immediate oral and/or written notice to WDEQ/WQD, Cheyenne, (307) 777-7781, in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 11. Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 122 W. 25th St., Cheyenne, WY 82002, on the form provided (CERTIFICATION OF COMPLETION), the following information.
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or,
 - d. Certification the facility was completed with changes or modifications. If any modifications or changes are done during construction of system (i.e., air sparging well spacing, etc.), 'as-built' drawings and specifications are to be submitted to WDEQ/WQD, Cheyenne, and if required, certified and signed by an Professional Engineer.

- 4 of 11. A final report shall be submitted within sixty (60) days of the first anniversary date of system start-up. The final report shall include an evaluation of the system's performance in meeting the objective of treating dissolved phase groundwater contamination along Frontier's southern property line. The report shall also include recommended future actions for operation of this system. If the system is to continue operations on a long term basis (greater than 1 year), a draft Operation & Maintenance (O & M) manual shall be submitted to WDEQ/WQD for approval as set forth in Condition 9. Contingent upon approval by WDEQ/WQD, the proposed operating requirements and any additional requirements shall be adhered to during long term operation of this system.
- 5 of 11. Any future expansions of the pilot-scale system will require the issuance of a new permit by WDEQ/WQD. The application for the permit to construct shall include three copies of engineering plans and specifications, design data, and any other pertinent information. The theoretical information serving as the basis for design presented in application materials for Permit 93-034R need not be resubmitted within a permit application for an expansion.
- 6 of 11. The authorization of this permit is **contingent on the WDEQ/Air Quality Division (AQD) approval**. Prior to commencement of construction, WDEQ/WQD, Cheyenne, shall be notified of WDEQ/AQD's approval to operate this pilot-scale system without a AQD permit.
- 7 of 11. The proposed first (three-month) monitoring plan is sufficient at this time. The air injection system and subsurface monitoring during the initial tests on AI-6 shall be performed to attain empirical data for determining the radius of influence (ROI) and the most efficient operating conditions (air flow rate and pressure). The well spacing of the constructed air injection wells shall conservatively insure optimum performance of the system (i.e., adequate overlap of ROI of adjacent wells). The report submitted after the first three months of operation shall contain all monitoring and sampling data taken during this period. The proposed second (nine-month) monitoring plan shall be adhered to, unless changes are required upon WDEQ/WQD's review of the first (three-month) report.
- 8 of 11. Dependent upon the analytical sampling results of the two Geoprobes, WDEQ/WQD may require the installation of permanent groundwater monitoring wells at downgradient locations from the pilot-scale system.
- 9 of 11. If this system is to be operated on a long term basis (greater than 1 year), an Operation & Maintenance (O & M) Manual for the facility shall be submitted to WDEQ/WQD for approval. Items to be included in the O & M Manual 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. Performance monitoring plan (i.e., sampling and monitoring frequencies, parameter lists, operating flow rates, etc.) and the reporting schedules for submitting results to WDEQ/WQD.
 - d. Contingency plans in the event of any equipment failure.

10 of 11. Within sixty (60) days after the first three months of operation of the pilot-scale system, a report shall be submitted to WDEQ/WQD for review. In addition to the items identified in the work plan on p. 4-21 and 4-22, Section 4.6, this report shall include:

- a. A description of the pilot-scale tests performed and an analysis of the empirical data from the tests which includes:
 - (1) performance results (ROI's, volatilization and bio-remediation effects on dissolved contaminant concentrations, etc.);
 - (2) documentation of any downtime, problems encountered and responses taken.
- b. Well completion diagrams for the air injection, observation, and monitoring wells (include boring logs which illustrate lithology);
- c. Results from the soil sampling (i.e., neutralization potential and presence of hydrocarbon degrading and nitrifying bacteria);
- d. Empirical data shall be presented in tabular form (dissolved BTEX and ammonia as nitrogen concentrations, etc.) and in graphical form (soil vapor pressures and VOC concentrations, and water table elevation vs. distance from the injection well for the differing flow rate of each pilot-scale test), and;
- e. Plan view maps of the site illustrating:
 - (1) the ROI of air injection wells (verified by pilot-scale results);
 - (2) iso-concentration maps of the dissolved contaminants;
 - (3) potentiometric surface (water table elevations) prior to, and after system start-up, and;
 - (4) locations of all existing air injection, observation and monitoring wells.

11 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 WQD Rules and Regulations Chapter XI, Part G. However, a sufficient seal shall be installed according to standard engineering practice. This deviation facilitates the placement of the top of the well screen at or near the high water table level, enabling more representative groundwater samples and measurements of vadose zone organic vapors and pressures.

PBS/jn - 40002.ltr

cc: Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
File, WQD Permit Reference #93-34R

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-035
SPECIAL CONDITIONS

Coxbill Livestock Trailer Wash Facility

This permit hereby authorizes the applicant:

Robert Coxbill
Route 2, Box 242
Torrington, Wyoming 82240

to construct, install or modify a livestock trailer washout facility and retention pond according to the procedures and conditions of the application number 93-035. The facility is located in SE 1/4 Section 32 T23N R61W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

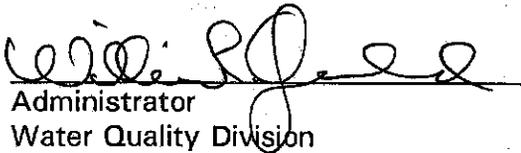
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

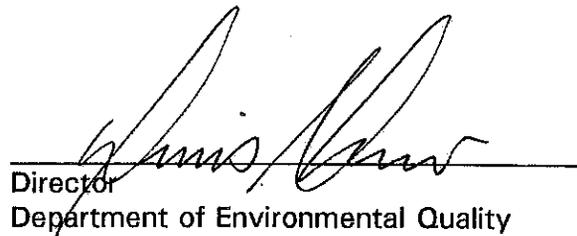
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

8-15-94

Date of Issuance

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

SPECIAL CONDITIONS

STANDARD CONDITIONS:

- 1 of 13. The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 13. The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.

PERMIT NO. 93-035

3 of 13. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:

- a. Date that construction of the facility was completed; and
- b. Date that the facility was placed in operation; and
- c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
- d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

RETENTION POND CONDITIONS:

4 of 13. Retention Pond Liner Construction Verification - A report documenting the pond liner construction compaction and moisture content results shall be submitted to the DEQ Water Quality Division for review and approval before operations begin.

GROUNDWATER MONITORING AND REPORTING:

5 of 13. Monitoring Well CT-4 need not be installed!

6 of 13. General - All written reports, whether routine or unscheduled permit exceedance reports, shall be sent to:

SE District Engineering Supervisor
DEQ / Water Quality Division
Herschler Building, 4 West
Cheyenne, Wyoming 82002

Additionally, each report shall have a cover sheet or cover letter which clearly indicates the purpose of the report and which refers to the Permit # 93-035.

7 of 13. Additional Background Monitoring:

- a. Upon receipt of this permit, the applicant shall sample Piezometers CT-1, CT-2, and CT-3 for water depth.

This sampling shall occur as soon as possible after the issuance of this permit and before any construction on the retention pond begins.

- b. After the completion of the construction of the facility, the sampling in item 7.a. above shall be repeated before the facility is placed into service.
- c. A report containing the information obtained for 7.a. and 7.b. above shall be submitted to the WQD as soon as possible after being obtained.

8 of 13. Routine Monitoring and Reporting - During the operational phase of this facility, piezometers CT-1, CT-2, and CT-3 shall be sampled for water depth and the pond liquids shall be sampled for the following parameters:

- Total Ammonia as "N",
- Nitrates + Nitrites as "N", and
- Total Kjeldahl Nitrogen(TKN) as "N",

according to the following semi-annual schedule:

- 1st Semester - at the end of May near the end of the heavy spring usage period,
- 2nd Semester - at the end of November after the heavy fall usage period is over.

An annual report summarizing all of the monitoring information and data and other aspects of the facility operation (ie: # of trucks processed, pond operations, pond cleanings, and so on) shall be submitted to the WQD by the following January 15th of each year. Upon review of these annual reports the WQD will have the option to revise the sampling parameters and/or frequency.

9 of 13. Reporting Permit Exceedances and Required Follow-up:

Total Nitrogen shall have the following exceedance reporting and action level:

Total Nitrogen as "N" - above 700 ppm

Total Nitrogen = (Nitrates + Nitrites + TKN) as "N"

If total nitrogen above this level is detected the facility operator is required to call the SE District Engineering Supervisor at (307) 777-7781 immediately to report the exceedance. Additionally, a written follow-up report should also be sent to the WQD as indicated in condition 6 of 13. Upon notification of an exceedance the WQD will review the situation and instruct the operator of the facility as to what additional steps need to be undertaken.

Additionally, if the groundwater levels obtained from the piezometers indicate a groundwater flow direction NOT towards the creek, the DEQ/WQD should be contacted as above.

PERMIT NO. 93-035

OTHER MISCELLANEOUS CONDITIONS:

- 10 of 13. Solid and Liquid Waste Disposal - All liquid and solid wastes from this facility shall be applied to croplands, in conjunction with other fertilizers when applicable, at agronomic rates not to exceed best agricultural practices for the crops being grown.
- 11 of 13. Manure Storage Not Allowed - Manure **shall not be stockpiled** at this facility (as indicated in the application package manual).
- 12 of 13. Closure Plan - The owner of this facility is required to submit a closure plan to the Water Quality Division for review and approval at least 90 days prior to permanent closure and/or abandonment of this facility.

STATEMENT OF BASIS:

- 13 of 13. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

STATEMENT OF BASIS

I. General information.

A. Permit Number: 93-035

B. Facility Name: Coxbill Livestock Trailer Wash Facility

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)

A. Chapter XI. Yes

B. Chapter XII. No

III. Basis for issuing permit. (Indicate yes or no for each section.)

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

Yes

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

No

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

NOT Applicable

B. Briefly state the basis for the deviation.

NOT Applicable

C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).

NOT Applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. Note that sediment ponds, public water supplies, sewerage systems, and small wastewater systems are exempt from the requirements of Section 15. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

Applicable

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected. (Fill out only the applicable sections and indicate sections that are not applicable.)

- A. Facility will not allow a discharge to groundwater. Briefly describe:

NOT Applicable

- B. Quality of wastewater is such that it will not cause a violation of groundwater standards. Briefly describe:

NOT Applicable

- C. Existing soils or geology will not allow a discharge to groundwater. Briefly describe:

NOT Applicable

- D. Basis of facility design is that it will be operated so as not to violate groundwater standards (example: maintenance of manure pack at animal waste treatment facility). Briefly describe:

NOT Applicable

- E. Discharge will result in groundwater concentrations in excess of standards but post discharge water quality can be returned to standards in accordance with Section 4 (d)(vi), Chapter VIII. Briefly describe:

YES - This facility is a livestock trailer washout facility with a soil/bentonite lined retention pond to contain and reuse the washout water. This facility is located approximately 100 feet upgradient from Horse Creek in an agricultural area. The design concept is that the lined retention pond will collect and contain the washout water and the facility will be operated and maintained such that limited amounts of contaminated water will leach into the ground. Because of the proximity of the pond upgradient of the stream, any contamination which escapes will be quickly transported by the local groundwater table to the stream and this facility will therefore not pollute the groundwater aquifer; but rather will act as and be treated as a potential point source of pollution to Horse Creek. Subsequently, the potential impact of this facility on Horse Creek has been reviewed and analyzed to see if NPDES standards for Ammonia and/or Nitrogen can be maintained in Horse Creek. It was determined, that for the estimated exfiltration rate from the pond, the 7Q10 for Horse Creek, and allowing a conservative safety factor; that the concentration of total nitrogen (nitrates + nitrites + TKN) in the pond could be up to 700 ppm and still not violate the stream standards. Therefore, this facility is permitted on this basis.

- F. If water quality exceedances are allowed, briefly describe the parameter limits, property boundaries, places of withdrawal and any other information documenting that any users of affected aquifer will not be impacted.

The parameter limits are that the concentration of total nitrogen (nitrates + nitrites + TKN) in the pond remain below 700 ppm, and that the local groundwater gradient is towards the creek.

Natural barriers (such as the stream itself) and property boundaries are such that no nearby users of the groundwater will be effected. Locations of any wells and usage within a 1 mile radius were checked to see if they could potentially be impacted and it was determined that they would not be. Additionally, there are no places of withdrawal in the vicinity of the facility and future points of withdrawal are precluded by the physical nature of the site and because the surrounding property is controlled by the owner/applicant.

- G. Briefly describe monitoring system (parameters, frequency, etc.). Clearly state the parameters to be utilized for determining compliance, what constitutes a violation and steps to be followed by the permittee in the event of a violation.

Yes - Three(3) piezometers will be checked for water depth and flow direction semi-annually. Additionally, the retention pond liquids will be sampled for the following parameter semi-annually:

- Total Ammonia as "N"
- Nitrates + Nitrites as "N"
- Total Kjeldahl Nitrogen(TKN) as "N"

Violations - A violation is considered to be any exceedance of total nitrogen (nitrates + nitrites +TKN) over 700 ppm in the pond, or a groundwater flow direction which is not towards the creek.

VII. Documentation of Statement of Basis.

- A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

RLE/bb/43335.ltr

cc: John Wagner, NPDES

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Coxbill Livestock Trailer Washout Facility

ENGINEER: Charles M. Jones
3200 Sharps Street
Fort Collins, Co. 80526

APPLICANT: Robert Coxbill
Route 2, Box 242
Torrington, Wy. 82240

WATER QUALITY REFERENCE NUMBER: 93-035

REVIEWING ENGINEER: Ronald L. Ewald

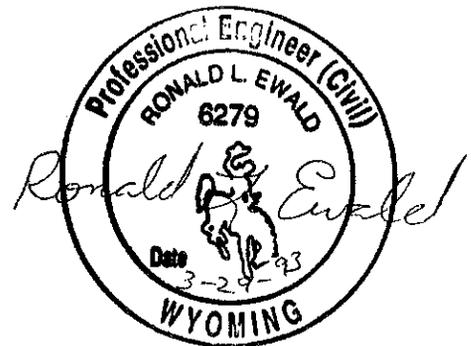
DATE OF REVIEW: March 29, 1993

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1 of 4. After reviewing this design concept the Water Quality Division(WQD) is not convinced that the basic plan to recirculate the pond water will work because the water could become so thick with manure so quickly that the pump and high pressure nozzle system could be clogged. More specifics on what the physical, chemical, and biological quality of the water in the pond will be needs to be presented. Additionally, technical information in the pump and nozzles needs to be presented to illustrate if the equipment can handle this water.

2 of 4. Pond Liner - The proposed liner design needs to be quantitatively described. Any proposed clay/soil mixture liner should be analyzed for permeability, moisture content, compaction, and so on; so that the design characteristics and expected performance can be properly reviewed. If such a clay/soil liner is to be part of the final plan the lab analysis shall be done in accordance with Chapter XI, Section 29(e)(ii). Also, according to Section 29(e)(ii), a detailed description of how the liner will be constructed should be included along with quality control measures and tests to be conducted.



Review of Application #93-035

March 29, 1993

Page 2

- 3 of 4. Check Valve - Since this facility is designed as a non-discharging facility, an NPDES discharge permit is not required. However, if the check valve on the stream inlet pipe should fail (or even leak) any discharge into the stream would be an NPDES violation. Because single check valves are much more susceptible to both leakage and failure due to back pressure, and because the Water Quality Rules and Regulations do not allow single check valves as backflow prevention protection; this location should be protected by at least a double check valve assembly. Such an assembly should be approved by either the Foundation for Cross-Connection Control, University of Southern California, or the American Water Works Association publication AWWA M14 - "Recommended Practice for Backflow Prevention and Cross-Connection Control".
- 4 of 4. Demonstration of Groundwater Protection - Chapter III, Section 15 requires that the applicant for a construction permit demonstrate that groundwater will be protected by either of two methods (Section 15 (a) or (b)); or that if this protection cannot be demonstrated, than a monitoring program shall be implemented according to Section 15 (c), (d), and (e). The requirements of Chapter III, Section 15 are not adequately addressed by the application as submitted. A copy of Chapter III, Section 15 is included with this review for your consideration.

RLE/jn - 31445.ltr

Enclosure

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 93-037
* CONDITIONED *

Bear River Drive Water and Sewer
(Name of Facility)

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

City of Evanston

1200 Main Street

Evanston, WY 82930

to construct sewer and water facilities in conjunction with Bear River Drive improvements according to the procedures and conditions of the application No. 93-037. The facility is located in NW¼ Section 21, 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.

PERMIT TO CONSTRUCT
BEAR RIVER DRIVE IMPROVEMENTS
93-037

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.

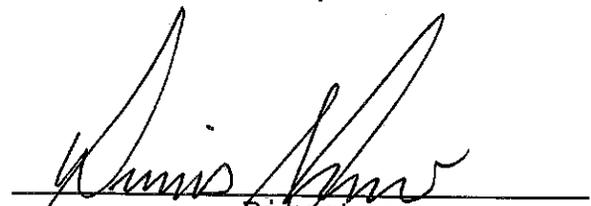
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

3-12-93
Date of Issuance

PERMIT TO CONSTRUCT
BEAR RIVER DRIVE IMPROVEMENTS
93-037

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

RRT

CONDITIONS 1 OF 1

1 of 1 This permit is granted with the following note that should be brought to the attention of the City planning and maintenance personnel:

The 10" sewer line will likely have high maintenance needs. The probable low flows, the flat slope, and the shallow depth of cover will make this line difficult to keep operational during cold weather periods. If the service is only for recreational use the City should consider shutting off all flows during cold weather periods and flushing out the sewer line at the end of the use season. If the sewer line is to be used during cold seasons, it will likely require high flow rates to keep it flushed and unfrozen; it may also require warm water inflows to keep it operational.

If the line is to operate with very small flow rates, it may also require flushing even during the warmer season months to prevent the accumulation of solids and to prevent the line from turning septic.

While the polystyrene insulation will be an aid to cold weather operations, the combination of other difficult factors, as listed above, makes this an unique installation that will require special attention.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-038R

Oregon Trails Subdivision Phase I
(Name of Facility)

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

WKF Corporation

2028 Hillcrest Drive

Rock Springs, WY 82901-4238

to construct a water distribution and sewage collection system for a 13 lot subdivision according to the procedures and conditions of the application No. 93-038R. The facility is located in SE $\frac{1}{4}$ NW $\frac{1}{4}$, Section 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

4-28-93

Date of Issuance

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

RT/jyi 31903

RF

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

(X) New
() Modified

Permit Number 93-039
Subclass Number: 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),

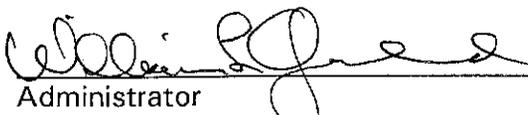
Burlington Northern Railroad
373 Inverness Drive South
Englewood, Colorado 80112
Attn: John Meldrum, Environmental Manager
(303) 220-3426

is authorized to operate

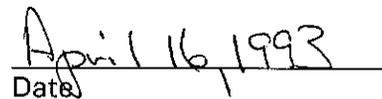
The Sunnyside Lane Derailment, *in-situ* Bioremediation System

in the SE¼ NW¼, Section 8, Township 43 North, Range 94 West, of the 6th Principal Meridian; in Hot Springs county according to procedures and conditions of application #93-039 and requirements and other conditions of this permit.

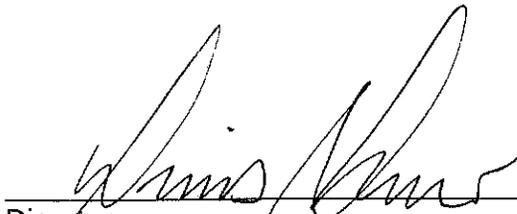
This permit shall become effective on date of issuance.



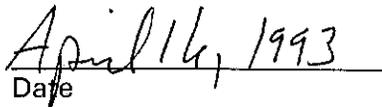
Administrator
Water Quality Division
Herschler Building, 122 West 25th Street
Cheyenne, WY 82002
Phone: (307) 777-7781



Date



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



Date

A. Discharge (Injection) Zone and Area of Review

Discharge Zone:

This injection well is authorized to inject into an Big Horn River Alluvium 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 43 North, Range 94 West, 6th Principal Meridian
Section 8: SE $\frac{1}{4}$ NW $\frac{1}{4}$

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

Township 43 North, Range 94 West, 6th Principal Meridian
Section 8: ALL

B. Groundwater Classification

The groundwater in the Big Horn River Alluvium is classified as class I under Chapter VIII of Wyoming Water Quality Rules and Regulations (April 9, 1980). This classification was made because:

- a. There are several domestic use wells within this section. While the water may not be used for direct human consumption, it is used for domestic purposes at several points of withdrawal.

Groundwater of class I shall not be degraded so as to make it unusable as a source of water for this purpose. Any parameters which do not meet the class of use standard shall not be degraded whatsoever.

C. Authorized Operations

The permittee is authorized to inject 4.80 pounds of ammonium nitrate per week, or 2.22 pounds of ammonium phosphate per week into each of four wells. These wells were shown on the application as wells E-36, E-37, E-38 and MW-43. Dissolved oxygen may be added in any amount if desired. Other nutrients may be added to the injection stream with prior Water Quality Division approval.

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

The permittee is authorized to inject these same amounts of ammonium nitrate or ammonium phosphate into each of 4 alternate wells with prior Water Quality Division approval.

If, after 60 days of operation, the permittee has not exceeded any upper control limit as shown in section F4 of this permit, the permittee may apply to use higher limits for the number of pounds of each nutrient to be injected. Water Quality Division approval of any such higher limit will take the form of a modified permit to inject.

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), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.
3. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The name(s) of individual(s) who performed the sampling or measurements;
 - c. The date(s) analyses were performed;
 - d. Names of individuals who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
4. The prescribed program for this permitted activity is as follows:

At a minimum, the groundwater in the receiving formation shall be sampled for the purpose of establishing class of use and baseline values prior to the injection of any fluid under this permit. This sample shall be analyzed for the following parameters at a minimum:

Potassium	Sodium	Calcium
Magnesium	Sulfate	Chloride
Carbonate	Bicarbonate	Total Dissolved Solids
pH	Conductivity	Specific Gravity

This sample may be obtained from any unaffected monitoring well on the property or from any domestic use well which the permittee chooses to sample. The results of this sample will be used to set upper control limits for those parameters which may exceed class of use standards.

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	TARGET RESTORATION VALUE (TRV)*
MW-32 MW-33 MW-34 MW-41 MW-44 MW-45	Monthly	EPA Method 350.3 EPA Method 353.3 EPA Method 353.3 EPA Method 365.3	Ammonia as N Nitrate as N Nitrite as N Total Phosphorus (as P)	.5 10.0 1.0
MW-30 MW-31 MW-46 MW-47 HARVEY'S WELL	Quarterly	EPA Method 350.3 EPA Method 353.3 EPA Method 353.3 EPA Method 365.3	Ammonia as N Nitrate as N Nitrite as N Total Phosphorus (as P)	.5 10.0 1.0
MW-32 MW-33 MW-34 MW-41 MW-44 MW-45	Monthly	Method chosen by permittee	Methanol	15.0
MW-30 MW-31 MW-32 MW-33 MW-34 MW-41 MW-42 MW-43 MW-44 MW-45 MW-46 MW-47 E-33 E-34 E-35	Weekly	Probe	Static Water Level	

*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 above Target Restoration Value (TRV) shall be reached when the site is fully remediated.

In addition to the above, analyses shall be conducted for any other chemical parameter added to the injection stream as allowed by Section C of this permit.

After several months of operation and submittal of detailed groundwater gradient maps, the Water Quality Division may require that additional monitor wells be drilled and that they be added to the above list.

If at any time the methanol content exceeds 15.0 mg/l or the nitrate content exceeds 10 mg/l or the ammonia content exceeds .5 mg/l in any of the following wells, the permittee shall install additional wells to determine the full extent of contamination downgradient. The wells covered by this provision are: MW-33, MW-34, MW-41, MW-42, MW-46, and MW-47.

In monitoring the groundwater, the following upper control limits shall apply at monitor well MW-32, MW-33, MW-46, MW-47 and the Harvey Well:

PARAMETER	APPROVED METHOD NUMBER	UCL*
Ammonia as N	EPA Method 350.3	.50
Nitrate as N	EPA Method 353.3	10.0
Nitrite as N	EPA Method 353.3	1.0

In monitoring the groundwater, the following upper control limits shall apply at monitor well MW-34, MW-41, MW-42, MW-44, MW-45:

PARAMETER	APPROVED METHOD NUMBER	UCL*
Ammonia as N	EPA Method 350.3	1.0
Nitrate as N	EPA Method 353.3	20.0
Nitrite as N	EPA Method 353.3	1.0

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

In addition to the above, analyses shall be conducted for any chemical parameter added to the injection stream as allowed by Section C of this permit.

After 3 consecutive sampling events showing that all parameters have met TRV's, monitoring may cease under this permit providing that all injection ceased prior to the 3 sampling events.

G. Requirements for Monitoring the Discharge

The permittee shall monitor the operation of the aquifer remediation system on a continuous basis. This monitoring shall include a recording showing the amount of each chemical injected for each day of operation, and the amount of water injected for each day of operation.

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 each chemical injected and the amount of water injected for each day of operation for the quarter being reported;
 - b. The results of all required analyses for the quarter being reported;
 - c. A graph for each required monitor well showing the levels of Ammonia as N, Nitrate as N, Nitrite as N, Total Phosphorous as P, Methanol, and static water level from the date when the system went into operation through the current date.
 - d. Static water elevation contour maps for the immediate are of the injection point showing the groundwater table for each month of the operation.
 - e. Records showing the amount and kind of microbes added to the system, and any other additive added to the system.
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 180 days before well abandonment. Immediately following the permanent cessation of subsurface discharge or related activity, or where a well has not been completed, the applicant/permittee shall notify the director and follow the procedures prescribed by the director for plugging and abandonment or the discontinuance of related activities:

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;
2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the permit conditions;
3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;

4. Furnish to the administrator within a reasonable time, any information which the administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit; and furnish to the administrator, upon request, copies of records required to be kept by this permit.

N. Financial Responsibility

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

O. Special Measures the Director Finds Necessary

The permittee shall submit an "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.

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

If, after 18 months of operation of this system, no appreciable cleanup of the aquifer is evident, the Water Quality Division may require more comprehensive cleanup measures. These may include but are not limited to the installation of water suppression pumps, free product removal pumps, or other measures as the Administrator may require.

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 of 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/jmm - 31684.ltr

UNDERGROUND INJECTION CONTROL
FACT SHEET
BURLINGTON NORTHERN RAILROAD
SUNNYSIDE LANE AQUIFER REMEDIATION

Name and Address of Applicant: Burlington Northern Railroad
373 Inverness Drive South
Englewood, Colorado 80112
Attn: John Meldrum
(303) 220-3426

Permit Number: UIC 93-039

Class and Type of Permit: Class V, Aquifer Remediation

Background Information: Burlington Northern Railroad has experienced a derailment along their railroad line near Thermopolis Wyoming. During that accident, Methanol from a ruptured tank car leaked out onto the ground and has subsequently polluted a shallow aquifer. The aquifer in question consists of fractured ground with high groundwater flow velocities. Burlington Northern has responded by soil venting to remove the methanol by biological action. In the course of this biological remediation, BNRR has found that the microbes have completely depleted the nutrients found naturally in this aquifer. It is the purpose of this permit to allow the introduction of limited quantities of ammonium nitrate and phosphate into the aquifer to enhance the restoration of the aquifer. The permit places limits on the amount of these chemicals to be introduced and formalizes target restoration values for the site. BNRR has shown that 15.0 mg/l of Methanol is a reasonable health based limitation. Target restoration values for the introduced nutrients have been set at the class I class of use limits. It is believed that these parameters will further decline on their own after the conclusion of this project and will ultimately stabilize at or near their baseline values.

Directly down gradient from this source, there are no wells being used at this time. Monitoring is designed to show that there will not be a groundwater standards violation in any case. There is one domestic use well located nearby, cross gradient from the source. As a precautionary measure, BNRR has provided an alternate source of drinking water for this family. The permit is structured to protect this drinking water well from further degradation and to provide for the cleanup of the entire site. Monitoring is required to insure that contamination is quantified throughout the remediation process and no contaminant will leave the site without the knowledge of this agency and the BNRR.

**UNDERGROUND INJECTION CONTROL
FACT SHEET
BURLINGTON NORTHERN RAILROAD
SUNNYSIDE LANE AQUIFER REMEDIATION**

PAGE 2

The department conducted some simplistic modeling of the groundwater flow in this aquifer to help determine a worst case size for the amount of groundwater which could be contaminated with the nutrients. The modeling conducted assumed essentially no biological breakdown of the ammonia, nitrate or phosphate. This modeling indicates that the amounts of nutrients added under the permit may cause some of the monitor wells on site to reach a maximum concentration near the permit limits. However, dispersion alone will be sufficient to insure that a groundwater standards violation does not occur off site. In the event that the monitor wells down gradient from the introduction actually peak at levels higher than groundwater standards, the permit will require the installation of additional wells to fully define the plume.

PERMIT TO CONSTRUCT

New

Permit No. 93-040

Renewal

Modified

Northwest Rural Water District Piezometers
(Name of Facility)

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

Northwest Rural Water District

P.O. Box 2344

Cody, WY 82414

to install shallow (15 ft. piezometers, more or less), according to the procedures and conditions of the application No. 93-040. The facility is located in various locations in the County of Park and Big Horn, in the State of 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 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.

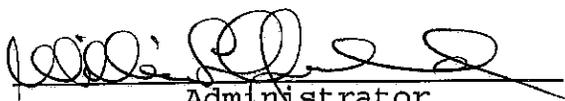
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

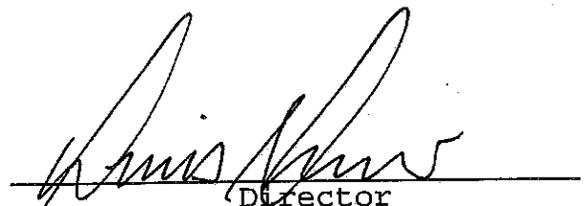
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

3-23-93

Date of Issuance

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

JH/jyi

THE STATE



OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES
(307) 332-5085

AIR QUALITY
(307) 332-6755

LAND QUALITY
(307) 332-3047

SOLID & HAZARDOUS WASTE
(307) 332-6924

WATER QUALITY
(307) 332-3144

May 7, 1993

Mr. Mike Coble
P.O. Box 358
Burlington, Wyoming 82411

*AS-BUILT
ARCHIVES*

RE: Permit to Construct Application Number 93-041R

Dear Mr. Coble:

The Water Quality Division has reviewed as-built approval application number 93-041R for the Coble septic tank/leach field system. Our review of the materials submitted indicates that the system meets the minimum state standards for sizing in addition to isolation distances to wells, property lines, etc. Although the separation distance to the seasonal high groundwater is a little less than the four feet required by the regulations, there is sufficient separation to adequately protect the groundwater when your soil type is taken into consideration. The information supplied indicates the septic tank to be adequately sized relative to state standards. The information contained in the application was not verified by an on site inspection.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. The state assumes no liability for, and does not in any way guarantee the performance of the applicant in the exercise of its activities allowed under this letter. The applicant understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By the issuance of this letter, the state does not in any way waive its sovereign immunity.

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

Sincerely,

William L. Garland, P.E.
Administrator
Water Quality Division

PERMIT TO CONSTRUCT

New

Permit No. 93-042R

Renewal

Modified

Rock Springs Utility Repair Project 6AV2B-Phase III
(Name of Facility)

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

City of Rock Springs

212 D Street

Rock Springs, WY 82901

to construct a water and sanitary sewer pipelines according to the procedures and conditions of the application No. 93-042R. The facility is located in SE ¼ Section 26 and NE ¼ Section 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.

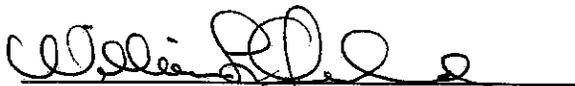
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

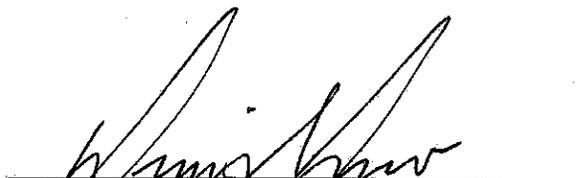
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

5-3-93

Date of Issuance

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

RT/jyi

AS-BUILT
PERMIT TO CONSTRUCT

New

Permit No. 93-043R

Renewal

Modified

Thermopolis Derailment Site
(Name of Facility)

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

Burlington Northern Railroad
373 Inverness Dr. South
Englewood, CO 80112

to have constructed Soil Air Barrier (SAB) & Groundwater Remediation Systems and the groundwater monitoring wells according to the procedures and conditions of the application No. 93-043R. The facility is located in Section 8, T43N, R94W in the County of Hot Springs, in the State of Wyoming.

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.

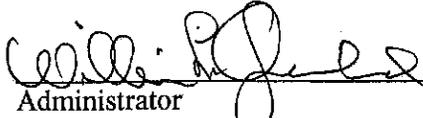
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions 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: NW District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 307-332-3144.

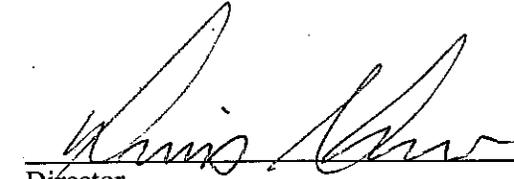
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

1-4-95

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 5. The groundwater monitoring wells and remediation systems' wells appear to be installed in accordance with Chapter XI, Part G, Wyoming Water Quality Rules and Regulations and the plans and specifications submitted in Permit to Construct application number ~~93-043R~~. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 2 of 5. After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.
- 3 of 5. At a minimum, the performance monitoring shall contain the following additional monthly sampling:
 - a. measure operating flow rate and vacuum of the soil air barrier system (SAB);
 - b. measure the VOC concentrations at the exit of the SAB blowers; and

- c. periodically measure and document the vacuum/pressure at SAB and air injection wellheads to identify any problems (i.e., short-circuiting, inefficient vacuums or pressures, etc.).

4 of 5. BNRR shall obtain permission from WDEQ/WQD prior to permanently turning off the remediation systems. If the systems are turned off for more than one week for reasons other than for routine maintenance (i.e., downtime) BNRR shall: 1) document the problems encountered and responses taken and 2) notify WDEQ/WQD within (15) days.

5 of 5. The remediation system sampling and monitoring results shall be submitted to WDEQ/WQD in an annual report within (60) days after the anniversary date after issuance of this permit or prior to permanently turning off the remediation systems. At a minimum, the annual reports shall contain:

- a. a description of the remediation systems' operation and an analysis of the empirical data which includes:
 - (1) performance results (zone of influence, volatilization/biodegradation effects on dissolved methanol, etc.);
 - (2) documentation of any shut-downs or downtime; and
 - (3) empirical data presented in tabular and in graphical form (i.e., static water levels and dissolved methanol concentrations vs. time);
- b. plan view maps of the site illustrating:
 - (1) the estimated zone of influence of the SAB and groundwater aeration wells;
 - (2) potentiometric surface from static water level measurements; and
 - (3) locations of SAB, aeration, vapor inlet, and monitoring wells, piezometers, and any additional monitoring points.

PBS/nc 46035.LTR

cc: Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
File, WQD Permit Reference #93-043R



THE STATE OF WYOMING



JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

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

January 3, 1995

Mr. John Meldrum
Burlington Northern Railroad
373 Inverness Dr. South
Englewood, CO 80112

Dear Mr. Meldrum:

RE: Permit to Construct Application Number No. 93-043R

The Department of Environmental Quality/Water Quality Division (DEQ/WQD) has reviewed the referenced As-Built Application submitted by your engineer, Pamela J. Mitchell (ERM-Rocky Mountain, Inc.). Our review indicates that the application appears to meet DEQ/WQD regulations and the enclosed As-Built Permit To Construct is hereby issued. The enclosed permit covers the Soil Air Barrier & Groundwater Remediation Systems and the groundwater monitoring wells that have already been constructed.

Please be advised that the system must be constructed, installed and operated in accordance with the statements, representations and procedures presented in the application and all supporting documentation as well as the terms and conditions of the permit. You are urged to be familiar with all aspects of the permit application, permit and permit conditions. Any person objecting to an action of the DEQ/WQD and desiring affirmative relief may request a hearing before the Environmental Quality Council in accordance with the procedures of the Rules of Practice and Procedure and the Wyoming Administrative Procedures Act.

Sincerely,

Dennis Hemmer
Director
Department of Environmental Quality

DH/PS/nc 46034.LTR
Enclosure: "As-built" Permit to Construct
cc: Don Newton, Lander
Mike F. Kraeski, ERM-Rocky Mountain, Inc.
IPS, Cheyenne

BNRR\93-043.ltr



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848 • Fax (307) 332-7726

ABANDONED MINES (307) 332-5085	AIR QUALITY (307) 332-6755	LAND QUALITY (307) 332-3047	SOLID & HAZARDOUS WASTE (307) 332-6924	WATER QUALITY (307) 332-3144
-----------------------------------	-------------------------------	--------------------------------	---	---------------------------------

May 25, 1994

Mr. John Meldrum
Burlington Northern Railroad
373 Inverness Dr. South
Englewood, CO 80112

RE: Groundwater Section Review of the Corrective Action Plan and Application for Permit to Construct - Permit # 93-043R

Dear Mr. Meldrum:

The Water Quality Division has completed the review of the above referenced report. Comments and recommendations are summarized in the enclosed Groundwater Pollution Control (GPC) Program review form.

Should you have any questions regarding the comments in the Engineering Section, please direct them to Phil Stump in our Cheyenne office at (307) 777-7781.

Sincerely,

Don Newton, P.G.
Hydrogeologist
Water Quality Division/Northwest District

DN/dn

enc: Groundwater Section Review Form

xc: Michael Kraeski, ERM-Rocky Mtn., 5950 S. Willow Dr., #200, Greenwood Village, CO, 80111

Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
File: Burlington Northern Methanol Spill, Thermopolis, Hot Springs Co.
File: 1994 Northwest District GW Review Forms

GROUNDWATER POLLUTION CONTROL PROGRAM
REVIEW COMMENTS:
PLANS/SPECIFICATIONS/PROPOSALS/REPORTS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

250 Lincoln
Lander, Wyoming 82520

PROJECT: REMEDIAL SYSTEM BURLINGTON NORTHERN RAILROAD, EAST
SUNNYSIDE LANE DERAILMENT, LUCERNE, WY

APPLICANT: BURLINGTON NORTHERN RAILROAD
373 Inverness Dr. South
Englewood, CO 80112

**ENGINEER/
CONSULTANT:** ERM-Rocky Mountain, Inc.
5950 S. Willow Drive, Suite 200
Englewood, Colorado 80111

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 93-043R

EXISTING NEW AS BUILT

TITLE: CORRECTIVE ACTION PLAN AND APPLICATION FOR PERMIT TO CON-
STRUCT, THERMOPOLIS METHANOL SPILL

PLANS SPECS PROPOSAL REPORT
[Check all that APPLY]

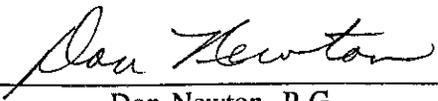
DATE ON PROPOSAL/PLANS/REPORT: 11/16/93

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

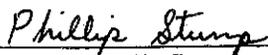
A LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING GEOLOGIST:



Don Newton, P.G.

REVIEWING ENGINEER:



Phil Stump

APPROVING ENGINEER:

N.A.

(Signature)

DATE OF THIS REVIEW: 5/25/94

ACTION: NOT AUTHORIZED

COMMENTS: ENGINEERING SECTION

- 1.0 Prior to issuance of this permit, an Operation and Maintenance (O & M) Manual of the Soil Air Barrier (SAB) and Groundwater Remediation Systems shall be submitted 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:
 - 1.1 specific operating information for each of the components of the system;
 - 1.2 routine scheduled maintenance and any other required maintenance;
 - 1.3 contingency plans in the event of any equipment failure;
 - 1.4 contingency provisions to remedy inefficient vacuums that are identified at a SAB wellhead (i.e., adjusting the gate valve at the wellhead, etc.);
 - 1.5 a system performance monitoring plan (i.e., sampling and monitoring frequencies, parameter lists, operating flow rates and vacuums, etc.);
 - 1.6 if the systems are turned off for more than 24 hours for reasons other than for routine maintenance (i.e., shut-off or downtime), a plan to document and report to WDEQ/WQD the problems encountered and the response taken, and;
 - 1.7 the reporting schedules for submitting monitoring and sampling data.
- 2.0 During operation of the SAB system the total operating flow rate and vacuum of the system shall be measured. Also, the VOC concentrations at the exit of the blowers shall be measured and documented. (If this monitoring requires major equipment additions, please consult with WDEQ/WQD.)
- 3.0 If an expansion to the SAB system is required to provide additional remediation during the winter months (as described in the application materials), an engineering construction drawing of the expansion will need to be submitted to WDEQ/WQD for approval.

END OF REVIEW

c:\wpwin\gpc\htsprng\bnrr_ptc.145

RECEIVED

MEMORANDUM

MAY 26 1994

Date: May 25, 1994
From: Don Newton, Hydrogeologist, WQD/Lander *DN*
To: Phil Stump, WQD/Cheyenne
Subject: Burlington Northern GW Review

WATER QUALITY DIVISION
WYOMING

Enclosed is the review for the PTC you reviewed a while ago. Please sign the review and have a secretary make the appropriate copies and mail out. Thanks.

Barb,

*This review is from Don Newton.
Please mail it out.*

Thanks,

Phil

PERMIT TO CONSTRUCT

New

PERMIT NO. 93-044

Renewal

Modified

LITTLE GOOSE/BIG HORN/CITY WATER DISTRIBUTION SYSTEM - BID GROUP 2
(Name of Facility)

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

Sheridan Area Water Supply Joint Powers Board
224 South Main Street, Suite B-1W
Sheridan, Wyoming 82801

to construct, install or modify water distribution facilities according to the procedures and conditions of the application No. 93-044. The facility is located in Sections 2, 10, 11, 14, 15, 22, 23, 27, T55N, R84W, in the County of Sheridan in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

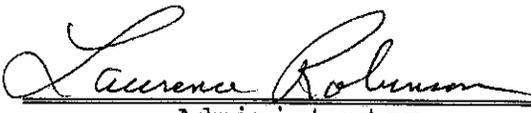
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

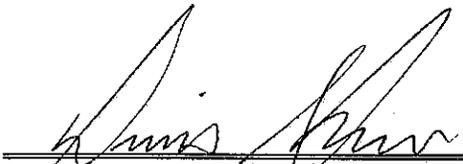
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
for Water Quality Division



Director
Dept. of Environmental Quality

6-28-93

Date of Issuance

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

DRM/pr:06/21/93

SPECIAL CONDITIONS

- 1 of 4. A variance is hereby granted from the requirements of Chapter XII, Section 14(c) for minimum valve spacing in residential areas. Because the system is located in a rural location, the number of users per length of waterline is very low. This division agrees that placing valves every 800' as required by Water Quality Division Rules and Regulations (WQDRR) in this type of location would significantly increase the cost of the project while the benefit from such action would be low. However, if the number of users on the system increases to a level which warrants additional valving, this division reserves the authority to require the system to be modified.

ECIAL CONDITIONS (continued)

- 2 of 4. A variance is hereby granted from the requirements of Chapter XII, Section 14(b)(ii)B for installation of a manhole on the supply side of a stream crossing. This division agrees that a manhole in this application will not increase the probability of gaining access to the valve during a flood event. Your request to install a valve box in lieu of a manhole at the supply side of the line is approved.
- 3 of 4. A variance is hereby granted from the requirements of Chapter XII, Section 14(g)(i) for the minimum horizontal separation of 10 feet in those areas where only five is available if the sewer line is pressure tested accordingly to Unibell UNI-8-6-85 low pressure air test to assure water tightness, or the sewerline pipe shall be encased in poured concrete having minimum dimensions of outside diameter plus 12 inches. Concrete shall conform to Bid Group 2 Specifications 03010.
- 4 of 4. As-built drawings shall be submitted to the Sheridan District Office upon project completion.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

PERMIT NO. 93-045

LITTLE GOOSE/BIG HORN/CITY WATER DISTRIBUTION SYSTEM - BID GROUP 3
(Name of Facility)

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

Sheridan Area Water Supply Joint Powers Board
224 South Main Street, Suite B-1W
Sheridan, Wyoming 82801

to construct, install or modify water distribution facilities according to the procedures and conditions of the application No. 93-045. The facility is located in the County of Sheridan in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

6-7-93

Date of Issuance

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

AKM
JAS/pr:05/28/93

SPECIAL CONDITIONS

- 1 of 3. As per the review dated March 17, 1993, a variance was granted from the requirements of Chapter XII, Section 14(c) for minimum valve spacing in the residential areas described in Bid Group 3.
- 2 of 3. A variance is hereby granted from the requirements of Chapter XII, Section 14(b)(ii) regarding the 2 dead-end runs of 6-inch pipe with fire hydrants as shown on sheet PP-13 and PP-14 because the minimum residual pressure of 20 psi can be maintained while withdrawing a 1,000 gpm fire flow (item #2 of HKM letter dated May 21, 1993).
- 3 of 3. Upon completion of this project, an as-built shall be provided to this Division that reflects the changes and variances regarding Bid Group 3 that were addressed through correspondence from HKM dated March 1, 1993, April 13, 1993, and May 21, 1993.

PERMIT TO CONSTRUCT

New

PERMIT NO. 93-046
(SEE SPECIAL CONDITIONS)

Renewal

Modified

LITTLE GOOSE/BIG HORN/CITY WATER DISTRIBUTION SYSTEM - BID GROUP 4
(Name of Facility)

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

Sheridan Area Water Supply Joint Powers Board
224 South Main Street, Suite B-1W
Sheridan, Wyoming 82801

to construct, install or modify water distribution facilities according to the procedures and conditions of the application No. 93-046. The facility is located in Sections 14, 22, 23, 26, 27, 34, 35 of Township 55 North Range 84 West in the County of Sheridan in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

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

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.

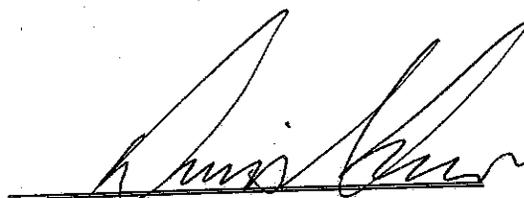
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

1-26-94

Date of Issuance

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

SPECIAL PERMIT CONDITIONS

- 1 of 4. 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 on the attached post card. The authorized representative in your area can be contacted at the following address: Wyoming DEQ/WQD, Sheridan District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.
- 2 of 4. The permittee shall provide immediate oral and/or written notification, in accordance with Section 9, Chapter III, to the Sheridan District Office of any changes or modifications to the approved permit package.

Permit #93-046

Little Goose/Big Horn/City Distribution System - Bid Group 4

- 3 of 4. Within sixty days of completion of the authorized facility, the applicant will submit to Sheridan District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
- a. Date that construction of the facility was completed; and
 - b. Date the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system, certified by an engineer if appropriate.
- 4 of 4. The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

DRM/pr:01/21/94/nc 40369.LTR

Attachments: Notification Post Card
Certification of Completion Form
Statement of Basis

STATEMENT OF BASIS

I. General information.

A. Permit Number: 93-046

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)

A. Chapter XI. No.

B. Chapter XII. Yes.

III. Basis for issuing permit. (Indicate yes or no for each section.)

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

No.

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

No.

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No.

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

1) Section 14 (b) of Chapter XII of the Wyoming Water Quality Rules and Regulations (WWQRR) requires a maximum length of 250 feet for a 6-inch watermain providing fire protection where service is from one direction.

2) Section 14 (c) of Chapter XII of the Wyoming Water Quality Rules and Regulations (WWQRR) requires valves at 500 foot intervals on watermains servicing commercial districts and 800 feet for other districts to minimize inconvenience and sanitary hazards during repairs.

3) Section 14 (h) (ii) (B) of Chapter XII of the WWQRR requires the installation of a manhole on the supply side of stream crossings.

B. Briefly state the basis for the deviation.

1) The project manager has determined that the required minimum residual pressures can be maintained at fire flows for the Sheet PP7 (Burr Drive). Please refer to HKM letter dated 1/20/94 contained within the permit application package.

2) The system is located in a rural location and the number of users per length of waterline is relatively low. The placement of valves at 800 foot intervals would substantially increase the cost of the project without realizing significant benefits. However, if the number of users on the system increases to a level which warrants additional valving, the department reserves the authority to require the system to be modified.

3) The installation of manholes in this application will not increase the probability of gaining access to the valves during a flood event. Valve boxes will be adequate.

C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).

1, 2, & 3) A general or statewide deviation does not exist in an approved policy statement. These variances are allowed by the respective Water Quality Division districts on a site specific basis.

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

Not Applicable.

VII. Documentation of Statement of Basis.

A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

Footnote: Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

DRM/pr:01/21/94/nc 40369.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 93-047
SPECIAL CONDITIONS

SAWSJPB WATER DISTRIBUTION SYSTEM BID GROUP 7

This permit hereby authorizes the applicant:

Sheridan Area Water Supply Joint Powers Board
224 South Main Street, Suite B1W
Sheridan, WY 82801
Attention: David Engels, Project Manager

to construct, install or modify a water distribution system according to the procedures and conditions of the application number 93-047. The facility is located in the W/2 of Sections 25 and 26 of Township 56 North and Range 84 West in the county of Sheridan, in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

The issuance of this permit confirms that the Department of Environmental Quality (DEQ) has evaluated the application submitted by the permittee and determined that it meets minimum applicable construction and design standards. The compliance with construction standards and the operation and maintenance of the facility to meet the engineer's design are the responsibility of the permittee, owner, and/or operator.

Granting this permit does not imply that the Wyoming DEQ guarantees or ensures that the permitted facility, when constructed, will meet applicable discharge permit conditions or other effluent or operational requirements. Compliance with discharge standards remains the responsibility of the permittee.

Nothing in this permit constitutes an endorsement by the DEQ of the construction or the design of the facility described herein. This permit verifies only that the submitted application meets the design and construction standards imposed by the DEQ statutes, rules and regulations. The DEQ assumes no liability for, and does not in any way guarantee or warrant the performance or operation of the permitted facility. The permittee, owner and/or operator are solely responsible for any liability arising from the construction or operation of the permitted facility. By issuing this permit, the state does not waive its sovereign immunity.

The permittee shall allow authorized representatives from the DEQ, 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 DEQ, Water Quality Division (DEQ/WQD) the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the Northeast District Office: DEQ/WQD, 1043 Coffeen Avenue, Suite D, Sheridan, Wyoming 82801; telephone (307) 672-6457; FAX (307) 674-6050.

Nothing in this permit shall be construed to preclude the institution of any legal action or other proceeding to enforce any applicable provision of law or rules and regulations. It is the duty of the permittee, owner and/or operator to comply with all applicable federal, state and local laws or regulations in the exercise of its activities authorized by this permit.

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.

The permittee shall construct and operate the permitted facility in accordance with the statements, representations, procedures, terms and conditions of the permit application, supporting documents and permit. This permit does not relieve the permittee from any duty to obtain any other permit or authorization that may be required by any provision of federal, state or local laws.

In carrying out its activities authorized by this permit, the permittee, owner and/or operator shall comply with all of the following permit conditions:

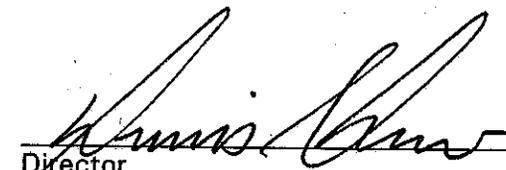
- 1 of 4 The applicant will notify the Northeast DEQ/WQD District Office by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 4 The applicant will provide immediate oral and/or written notice to Northeast DEQ/WQD District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Northeast DEQ/WQD District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or
 - d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
- 4 of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

AUTHORIZED BY:



Administrator
Water Quality Division
5-28-96

Date of Issuance



Director
Department of Environmental Quality

DRM/pr:mad 621391.LTR

Enclosures: Notification Post Card, Certificate of Completion, Statement of Basis

cc: Dayton Alsaker, MSE-HKM, POB 7010, Sheridan, 82801

STATEMENT OF BASIS

I. General information.

A. Permit Number: 93-047

II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)

A. Chapter XI. No

B. Chapter XII. Yes

III. Basis for issuing permit. (Indicate yes or no for each section.)

A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.

No

B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.

No

C. Permit based on deviation from applicable regulations in accordance with approved policy statement.

No

IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)

A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.

WWORR Chapter XII Section 14 (c) requires 500' valve spacing in commercial districts.

B. Briefly state the basis for the deviation.

Inconvenience and sanitary hazards due to repairs are still anticipated to be minimal for the commercial area served by this proposed water main.

C. Permit based on general or statewide deviation contained in approved policy statement (indicate the policy number and briefly summarize the nature of the deviation).

N/A

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III¹. (Indicate either applicable or not applicable. If not applicable delete all of Section VI. from the Statement of Basis.)

N/A

- VI. N/A

- VII. Documentation of Statement of Basis.

- A. The archives file for this permit will include adequate documentation of all sections of this Statement of Basis.

CERTIFICATION

The issuance of this permit is based upon a review of the application package submitted in accordance with the requirements of Section 6, Chapter III, Wyoming Water Quality Rules and Regulations. This review was performed by Donald R. McKenzie, Northeast District Engineering Supervisor, and completed on May 17, 1996. Permit issuance is recommended based upon statements, representations, and procedures presented in the permit application and supporting documents, permit conditions, and the items identified in this "Statement of Basis."

51933.DOC

¹Sediment ponds, public water supplies, sewerage systems and small wastewater systems are exempt from the requirements of Section 15.

PERMIT TO CONSTRUCT

- [X] New
[] Renewal
[] Modified

Permit No. 93-048R
* CONDITIONED *

Shoshoni Water Supply System Rehabilitation Project
(Name of Facility)

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

Town of Shoshoni

P.O. Box 267

Shoshoni, WY 82649

to install well pumps, construct water transmission line, and paint interior of water storage tank according to the procedures and conditions of the application No. 93-048R. The facility is located in Section 19, 29, 30, T38N, R94W and Section 15, T3N, R6E, Wind River Meridian in the County of Fremont, in the State of Wyoming.

This permit shall be effective for a period of two (2) years 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.

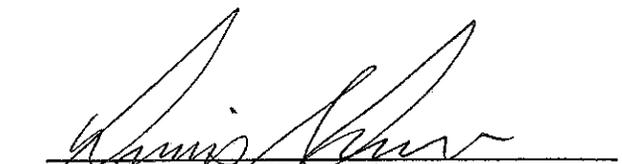
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

3-29-93

Date of Issuance

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

JH/jyi

* CONDITION *

The construction and specifications must be in compliance with the items listed in CEP's March 12, 1993, letter and Addendum No. 1.

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 93-049R

Gregory Park II
(Name of Facility)

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

Walt Thulin
P.O. Box 938
Wilson, WY 83014

to construct a 6 inch diameter PVC sewer and a 3 inch diameter water main according to the procedures and conditions of the application No. 93-049R. The facility is located in NE¼ NE¼ Section 6, T40N, 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.

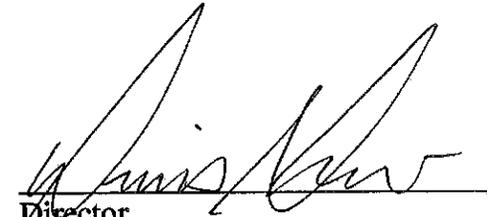
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

3-29-93
Date of Issuance

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

JH/jyi