PERMIT TO CONSTRUCT

[ ] New

[X] Renewal

[ ] Modified

PERMIT NO. 91-301
SEE CONDITIONS
Ref. Permit 90-293

AMOCO SS # 5427 MONITORING WELLS
(Name of Facility)

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

AMOCO CORPORATION
87 Indian Creek Parkway
Overland Park, Kansas 66210

to construct, install or modify monitoring well and test hole network facilities according to the procedures and conditions of the application No. 90-293. The facility is located in T.55N., R.84W., at SE corner of the Hwy. 14 & Hwy. 87 intersection, in the County of Sheridan in the State of Wyoming. This permit shall be effective for a period of two (2) year (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, (307) 672-6457.

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

The issuance of this permit does not convey any property rights in either real or personal property, or any 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

September 17, 1991
Date of Issuance

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

CONDITIONS FOR MONITORING WELLS

1. The groundwater monitoring wells and test holes shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 90-293. Additional wells and test holes meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).

2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.

3. After the monitoring wells and testholes 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 monitoring well has been plugged and abandoned, the owner shall file a plugging record with the WQD.

4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the Division. The wells shall be clearly numbered.

5. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:

a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;

b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;

c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level. Factory slotted casing is recommended for the perforated interval;

d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;

e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;

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

g. A protective casing and locking cap is strongly recommended;

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

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

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

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

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

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

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

c. Final location, construction details and logs of all monitoring wells;

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

e. Water level and product thickness measurements;

f. Sample collection procedures;

g. Sampling analytical results;

h. A map delineating the extent of the subsurface contamination including free product, soil and dissolved groundwater contamination and concentrations (as appropriate);

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

j. Interpretation of data and conclusions including recommended remedial measures (as appropriate).

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

9. WQD recommends all monitor wells associated with this facility be sampled and the wastewater analyzed quarterly for the parameters listed below:

BETX, TPH by EPA or other approved methods.

10. All inventory records for a year prior to the report of a spill shall be submitted to the DEQ/WQD within 15 days of such report. Reconciled inventory records with the volume of the spill specified shall be submitted to the DEQ/WQD within 45 days of reporting.

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.

EJL:pr

RF

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

March 24, 1994

Ken Betschart, General Manager
Continental Grain dba Torrington Feeders
Rural Route 3, Box 55
Torrington, WY 82240

RE: **1994 Groundwater Quality Monitoring & O&M Manual (Phase I, II, III)**
DEQ/WQD REF. NO. 91-302

Dear Mr. Betschart:

Thank you for meeting with us on Monday, March 21. The Water Quality Division (WQD) has reviewed the referenced Operation & Maintenance (O & M) Manual and the 1994 Annual Report. Comments, requirements, and recommendations are summarized on the enclosed Groundwater Pollution Control (GPC) Program review.

Sincerely,

Phillip Stump

Phillip Stump
GPC Program Engineer
Water Quality Division

PS/nc 41343.LTR
Enclosures: Groundwater Section Review
xc: 1994 Northeast District Review Forms
Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
ps: CON-GRAI\CON-GRAI.RV2

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Annual Report/O & M Manual (Phase I, II, III)

APPLICANT: Continental Grain dba Torrington Feeders
Rural Route 3, Box 55
Torrington, WY 82240
(307) 532-4094

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: **91-302**

✓ **EXISTING** _ **NEW** _ **AS BUILT**

TITLE OF REPORT: 1994 Annual Report: Results of Sampling

_ **PROPOSAL** ✓ **REPORT** ✓ **O & M MANUAL**

DATE ON REPORT: March 17, 1994

DATE ON O & M MANUAL: February 10, 1994

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? _ **NO** ✓ **YES** Permit No.91-302

AN LOV, NOV OR OTHER ENFORCEMENT? ✓ **NO**_ **YES**

REVIEWERS:
GPC Program: Phillip Stump
Phillip Stump, E.I.T.

District Engineer: Ronald Z. Ewald
Ron Ewald, P.E.

DATE OF THIS REVIEW: March 24, 1994

I. SUMMARY OF EXISTING CONTAMINATION:

The compliance groundwater quality monitoring was submitted in the 1994 Annual Report. Ammonia-nitrogen levels in monitoring wells (1-M, 1-MB, and 11-M) exceed 0.5 mg/L. Monitoring well (1-MB) installed in October, 1993, is downgradient from well 1-M and lies at the property line east of the entrance road.

The high ammonia-nitrogen levels in these wells require corrective actions and further investigations to identify the sources of contamination. Continental Grain is currently working with WDEQ/WQD through conference and conciliation to prevent continued impacts to the groundwater.

II. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

Plans for implementing corrective actions and investigations were discussed in the meeting on March 21, 1994. Please document and submit to WDEQ/WQD, Cheyenne, any actions taken to identify the sources of ammonia contamination and prevent continued impacts to the groundwater. The following feasible actions were discussed:

A. **Debris Basin/Holding Pond No. 1.**

Removing settled/accumulated solids and repairing (1) the bentonite seal and (2) the south dike;

B. **Retention Pond (Phase I)**

Drying the pond to (1) remove settled/accumulated solids and (2) take core samples to verify the integrity of the bentonite seal and to analyze for ammonia and nitrate concentrations.

Note: Maintenance of the ponds (i.e., repairing of the seals and dikes, cleaning accumulated solids, etc.) shall be conducted in adherence to the design criteria and procedures set forth in the O & M Manual (Phase I, II, and III) and the Wyoming Water Quality Rules and Regulations, Chapter XI, Section 29.

C. Verifying that the pipe that connects the retention pond to the debris basin is not leaking.

D. Determine if the domestic sewage systems (i.e., septic tank and leachfields at the office and shop) are functioning properly (e.g., no leaks in tanks or pipes, no clogging or backflow of leachfields, etc.).

III. REQUIREMENTS/RECOMMENDATIONS:

A. The following items shall be submitted to attain 'As-Built' approval for monitoring well (1-MB):

1. borehole log of lithology; and

2. 'As-Constructed' well completion cross-sections illustrating the annular seal, depth of screened interval, total depth of well, etc.

B. The specific records to 'be kept for each effluent discharge from the ponds' (O & M, p. 27) shall be available for inspection during site visits by WDEQ/WQD personnel.

C. WDEQ/WQD has the following recommendations for changes to the O & M Manual:

1. Replace section d. under NITRATE REPORTING with the following:

"If monthly monitoring indicates continuing groundwater standard violations, the owner shall submit the analytical results of groundwater sampling to WDEQ/WQD on a quarterly basis. After three consecutive months of groundwater standard violations, a plan and schedule shall be submitted to WDEQ/WQD that proposes the following corrective actions:

a. define the extent of contamination;

b. investigate/identify the source of groundwater contamination; and

c. perform remedial measures as necessary to abate the source of contamination."

2. Replace the following sentence in the LAND DISPOSAL section (p. 9) 'When the retention/holding ponds reach the level...' with the following:

"Following a storm event or during times when retention and holding ponds' water levels are high, wastewater in the ponds shall be applied to the lands at the earliest opportunity to ensure adequate storage capacity and to prevent seepage from impacting the groundwater."

D. Upon resolving the above recommendations, please submit three copies of the final O & M Manual (**Note**: One of the approved copies will be returned to you).

/nc 41343.LTR
PS: CON-GRAI\CON-GRAI.RV2

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

ADMINISTRATION	ABANDONED MINES	AIR QUALITY	INDUSTRIAL SITING	LAND QUALITY	SOLID & HAZARDOUS WASTE	WATER QUALITY
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FAX 777-7682	FAX 634-0799	FAX 777-5616	FAX 777-6937	FAX 634-0799	FAX 777-5973	FAX 777-5973

April 27, 1994

Ken Betschart, General Manager
Continental Grain dba Torrington Feeders
Rural Route 3, Box 55
Torrington, WY 82240

RE: **Plan of Actions**
WDEQ/WQD REF. NO. 91-302

Dear Mr. Betschart:

I am writing this letter in response to your letter dated March 22, 1994. Comments, requirements, and recommendations are summarized on the enclosed Groundwater Pollution Control (GPC) Program review.

Sincerely,

Phillip Stump
Phillip Stump
Senior Environmental Analyst
Water Quality Division

PS/nc 41875.LTR
Enclosure: GPC Program Review
xc: 1994 Southeast District Review Forms
Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
ps: CON-GRAI\CON-GRAI.RV3

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

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Groundwater Compliance Monitoring

APPLICANT: Continental Grain dba Torrington Feeders
Rural Route 3, Box 55
Torrington, WY 82240
(307) 532-4094

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: **91-302**

✓ **EXISTING** _ **NEW** _ **AS BUILT**

LETTER: Plan of Actions

_ **PROPOSAL** _ **REPORT** ✓ **LETTER**

DATE ON LETTER: March 22, 1994

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? _ **NO** ✓ **YES** Permit No.91-302

AN LOV, NOV OR OTHER ENFORCEMENT? _ **NO** ✓ **YES** LOV, September 16, 1993

REVIEWERS:
GPC Program: Phillip Stump
Phillip Stump

DATE OF THIS REVIEW: April 27, 1994

I. SUMMARY OF EXISTING CONTAMINATION:

Please see the GPC Review Form dated March 24, 1994.

II. REQUIREMENTS/RECOMMENDATIONS:

1. Please provide a plan and schedule to perform the proposed actions in your letter. Many of the proposed actions can be accomplished as soon as possible (i.e., installation of sand point wells, pressure tests of transfer pipe, repairs on dike wall of the east lagoon, etc.). **Actions which will not be delayed by wet spring weather shall be performed within sixty (60) days following receipt of this letter.**

2. In the 'Source Identification' Section of your letter four possible sources of ammonia as nitrogen contamination were identified. Other possible sources are as follows:

   a. damage to, or lack of a manure pack in the pen areas;

   b. surface water ponding that occurs in any areas of the feedlot (i.e., pens, drainage ditches, etc.);

   c. any domestic sewage systems (i.e., septic tanks and leachfields at the shop or at the office).

3. The following requests are in response to your proposed 'Corrective Measures':

   a. a layer of bentonite is recommended (i.e., instead of Holly Sugar Lime, etc.) for use as a sealing material in any excavated areas; and

   b. if the ammonia-nitrogen levels in monitoring wells (1M, 1MB, and 11M) fall below 0.5 ppm for three consecutive months, a quarterly monitoring schedule shall be implemented for 1 year.

4. The continuous operation of the watering tanks to prevent freezing during winter months is not an approved effluent discharge. The collection of this water in the wastewater ponds is not in accordance with **Permits to Construct No. 91-302 and 84-229**. The wastewater ponds were designed to contain only surface water runoff originating from precipitation events. **A plan** (i.e., recycling, alternate discharge, heated watering tanks, etc.) **shall be presented to WDEQ/WQD to be implemented prior to the return of sub-freezing temperatures next fall.**

5. The ammonia-nitrogen groundwater standard violations in monitoring wells 1MB and 11-M require additional subsurface investigations to predict/verify the downgradient extent of contamination. The investigations shall be performed as described in a. and/or b.:

   a. Continental Grain shall propose a plan and schedule to perform a site investigation to define the off-site downgradient extent of soil and groundwater contamination; and/or

   b. perform site-specific investigations to determine the hydrogeologic conditions and the fate and transport of ammonia contaminated groundwater (i.e., collect unimpacted/impacted soil samples, perform soil column sorption/desorption tests, etc.). After the sampling and tests are completed, perform groundwater modelling work that predicts the downgradient extent and the fate (i.e., natural attenuation, etc.) of the existing groundwater contamination.

Within forty-five (45 days) of receipt of this letter, please submit the plans and schedules described in *REQUIREMENTS 1, 4, and 5* above.

/nc 41875.LTR
PS: CON-GRAI\CON-GRAI.RV3

RF

PERMIT TO CONSTRUCT

PERMIT NO. 91-302
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

TORRINGTON FEEDERS FEEDLOT EXPANSION

This permit hereby authorizes the applicant:

CONTINENTAL GRAIN dba Torrington Feeders
Rural Route 3, Box 55
Torrington, WY 82240

to construct, install or modify waste collection and retention facilities constructed as part of the expansion of an existing cattle feedlot according to the procedures and conditions of the application number 91-302. The facility is located in Sections 19 & 20 T24N R60W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of five years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

11-20-91
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #91-302

1. LAGOON CONSTRUCTION: The retention pond shall be constructed as recommended by Chen-Northern in their report dated November 1, 1991. The liner shall consist of 6 inches of on-site silt, 24 inches of Holly Sugar Factory spent lime, and 12 inches of sand. Compaction control to densities as recommended shall be provided by a Wyoming licensed engineering service. At least 3 density tests shall be taken for each 6 inches lift of fill material, excluding the sand topping.

2. MW LOCATIONS: As per Chen-Northern recommendations the following wells should be monitored: 1-M, 7-M, 9-M, 11-M, 13-M, 14-M, 30-M, 21-M, C-1, the new production well (to be designated P-2), the existing production well (to be designated P-1), and one additional well to be constructed in the vicinity of coordinates 2893.79, 1896.67, which should be downgradient of the new pen areas.

   a. MW CONSTRUCTION: All monitor wells shall be constructed in accordance with Section G of Chapter XI of DEQ/WQD regulations.

      (1) DEQ/WQD personnel shall be given at least 24 hours notice prior to the installation of the monitor wells. Additional wells installed at the site must have prior approval from the DEQ/WQD.

      (2) Within 60 days of well construction, a report on the subsurface investigation must be submitted to the DEQ/WQD. The report must include the following items:

         (a) A chronology of events leading up to the investigation;

(b) A site map showing physical features, well locations and elevations;

(c) A potentiometric surface map showing the direction of groundwater movement;

(d) A description of the subsurface geologic conditions; and

(e) Construction details and logs of all monitor wells.

b. MW PROTECTION: All monitoring wells shall be protected by a steel cage to prevent damage from livestock and cowboys. 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.

c. MW ABANDONMENT: After the monitoring wells have fulfilled their useful purpose, and upon approval by DEQ/WQD, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of the Wyoming Water Quality Rules and Regulations. A plugging record must be filed with the DEQ/WQD within 15 days of abandonment. All monitoring wells on site not included in the list above shall be abandoned by March 15, 1992.

3. MONITORING: All monitoring wells, existing water supply wells, flow line of the Ferris Ditch, and the centers of all retention basins should be surveyed to the local (EWES) coordinate system and the 1929 C&GS elevation.

a. All wells shall be monitored in January and July until 4 years after closure of the feedlot for water level (msl), ammonia and nitrates. Average daily production and pumping water level shall be reported for all water supply wells.

b. Reporting shall be done on an annual basis after the January test results are available. The report shall consist of tabular results and an 1 inch-500 feet map showing water table contours and concentrations of nitrates. The base map shall show principal improvements and surface contours.

4. ACTION LEVELS: Action levels will be as follows:

a. Any time a well tests over 10 ppm of ammonia and nitrates as "N", an immediate report will be made to DEQ/WQD. The well shall then be tested and the results reported monthly until the level returns to below 10 ppm. If a given well is determined to be primarily influenced by Ferris Ditch, the monthly requirement will be deleted.

b. Any time the nitrogen level in a well violates the maximum contaminant level as established by the Safe Drinking Water Act (currently 10 ppm for N) for 3 months out of any 12 consecutive months for causes attributable to livestock feeding operations, corrective action must be initiated.

5. BEST MANAGEMENT PRACTICES: The Soil Conservation Service has published "Best Management Practices" for operation of livestock feeding operations. The local SCS office should be contacted for this literature. Three practices, (312) Waste Management Systems, (633) Waste Utilization, and (425) Storage Ponds are particularly applicable. If groundwater contamination occurs, DEQ/WQD will use these publications as a guideline to determine if the permit holder has taken proper precautions.

LBH/nc
cc: Kevin Frederick, DEQ/WQD, Cheyenne
Chen-Northern, Inc., P O Box 2599, Casper, WY 82602
Eastern Wyoming Engineering and Surveying Professionals, 2510 West C Street
Torrington, WY 82440

98-110

PERMIT TRANSFER REQUEST

Date: October 15, 1997

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

To Whom It May Concern:

Continental Grain Company, Torrington Facility intends to transfer ownership of the facility
(Original Owner)
associated with Permit Number 91-302 to Dinklage Feed Yard, Inc.
(New Owner)
on Oct 15, 1997. 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.

CONTINENTAL GRAIN COMPANY

By: John Rakestraw

Signature of Original Owner

Name John Rakestraw, V-P E&M

Address 5408 Idylwild Trail
Boulder, CO

Telephone 303 516-5901

Connie Lapaseotes

Signature of New Owner

Name Connie Lapaseotes

Address Box 327
Bridgeport, Nebr. 69336

Telephone 308-262-1687

jn - 24141.DOC
Revised 11/4/92

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: TORRINGTON FEEDERS FEEDLOT EXPANSION

ENGINEER: EASTERN WYOMING ENGINEERING AND SURVEYING PROFESSIONALS

APPLICANT: CONTINENTAL GRAIN dba Torrington Feeders
Rural Route 3, Box 55
Torrington, WY 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 91-302

REVIEWING ENGINEER: LOU HARMON

DATE OF REVIEW: 09/24/1991

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

Professional Engineer (Civil)
Louis B. Harmon
3523
Date 9/25/91
WYOMING

COMMENTS:

1. A conference was held September 23, 1991, at DEQ/WQD offices with Lou Harmon and Kevin Frederick of DEQ/WQD and Gary Steele of Eastern Wyoming Engineering in attendance.

2. The major issue raised was the protection of ground water. The hydrogeologic data submitted does not verify that the proposed water production well will intercept all of the infiltration from the new storm water retention pond. Two options are available in order to comply with the regulations.

   a. The pond can be sealed with a liner that provides a permeability of 1 X 10^{-7} as per Chapter XI.

   b. The existing water supply well at the feedlot along with the monitoring wells can be used for aquifer testing. If it can be demonstrated using the data from the existing well that the proposed well will successfully control infiltration from the new retention pond, the proposed approach will be approved.

3. The existing facility has a large number of monitoring wells. If any well is damaged it represents an immediate threat to ground water from surface runoff. The geotechnical consultant should select a minimum number of the existing wells to be maintained and supervise the abandonment of the rest. Wells 9M and 13M should be kept because of their history of higher nitrate levels.

4. For the expansion an adequate but minimum number of new monitoring wells will be required. Two upgradient wells are suggested, one of which is in the zone of influence of the Ferris Ditch. Of the new downgradient wells, one must be within 100 ft downgradient of the principal retention pond.

5. All monitoring wells, existing water supply wells, flow line of the Ferris Ditch, and the centers of all retention basins should be surveyed to the local(EWES) coordinate system and the 1929 C&GS elevation.

6. All wells shall be monitored quarterly for water level (msl), and nitrates reported as nitrogen. Wells 9M, 13M, and the new well closest to the retention pond shall be tested for Ammonia during the winter quarter. Average daily production and pumping water level shall be reported for all water supply wells.

7. Reporting shall be done on an annual basis after the winter quarter test results are available. The report shall consist of tabular results and a 1"-500 ft map showing water table contours and concentrations of nitrates. The base map shall show principal improvements and surface contours.

8. Action levels will be as follows:

   a. Any time a well tests over 10ppm of nitrates as "N", an immediate report will be made to DEQ/WQD. The well shall then be tested and the results reported monthly until the nitrate level returns to below 10ppm. After a given well is determined to be primarily influenced by Ferris Ditch, the monthly requirement will be deleted.

   b. Any time the nitrate level in a well violates the minimum contaminant level of 10ppm for 3 months out of any 12 consecutive months for causes attributable to livestock feeding operations, corrective action must be initiated.

   c. Any time an individual lot is to be unused for more than 30 days, all manure and hardpack must be removed and properly applied as fertilizer to cropland or grassland. The residual soil must be properly prepared and seeded with high nitrogen use forage. The forage crop should be harvested and removed for a minimum of two growing seasons. The most significant impacts of cattle feedlots on groundwater appears to be nitrates released as the manure pack decomposes after the lot is emptied.

/jn

cc: Kevin Frederick, DEQ/WQD
Eastern Wyoming Engineering and Surveying Professionals

PERMIT TO CONSTRUCT

PERMIT NO. 91-303
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

Sinclair Pipeline Statewide Anode

This permit hereby authorizes the applicant:

Sinclair Pipeline
P O Box 185
Sinclair, WY 82334

to construct, install or modify deep groundbed anode system according to the procedures and conditions of the application number 91-303. The facility is located in STATEWIDE in the county of STATEWIDE, in the State of Wyoming. This permit shall be effective for a period of five (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: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

September 17, 1991
Date of Issuance

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

CONDITIONS FOR PERMIT TO CONSTRUCT 91-303

1. The cathodic protection deep anode ground bed shall be installed in accordance with the conditions of this permit and plans and specifications submitted in permit to construct application number 91-303.

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

3. In addition to the anode bed construction information submitted with the permit application, the following items relating to well construction must be addressed when the well is installed:

   a. A bentonite grout seal shall installed for a minimum depth of 3 feet from the surface and also just above the coke breeze for a minimum thickness of 3 feet. The remainder of the hole between these seals may be backfilled with drill cuttings.

   b. The surface of each hole shall be protected with 20 feet of 10 inch Schedule 40 PVC casing which shall be cemented in place from top to bottom. The hole diameter for this 8 inch casing shall be no less than 14 inches to allow adequate room for the cement seal.

   c. All aquifers encountered while drilling shall be isolated from one another using a bentonite seal of at least 2 feet in vertical dimension.

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

violation.

e. Surface access to the anode shall be kept sealed at all times when the anode is not actually being serviced.

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

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

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

6. An unlimited number of similar anodes may be installed statewide under this permit. This authorization applys to Sinclair Pipeline and all subsidiaries operating in Wyoming. All anodes installed under this permit shall have similar construction specifications.

RFL/mad

OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

RECEIVED
NOV 12 1991
WATER QUALITY DIVISION
WYOMING

November 8, 1991

Mr. Keith Soper
West Gros Ventre Butte Water District
P.O. Box 3584
Jackson, WY 83001

RE: Ref. No. 91-304

Dear Mr. Soper:

Your application is being returned based upon your November 4, 1991 letter. According to this letter the applicant does not wish to proceed with the permit to construct process.

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 you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules and Regulations, must be followed.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/SG

cc: IPS, DEQ/WQD, Cheyenne

West Gros Ventre Butte
Water District
P.O. Box 3584
Jackson, Wyoming 83001

RECEIVED
NOV 5 1991
WATER QUALITY DIVISION
WYOMING

Wyoming Department of Environmental Quality
Water Quality Division
250 Lincoln
Lander, Wyoming 82520

PROJECT: West Gros Ventre Butte Water Improvements

WATER QUALITY DIVISION REFERENCE NUMBER: 91-304

DATE: 11/04/1991

The above referenced project will not be pursued at this time because of financial considerations.

Keith Soper, Treasurer
West Gros Ventre Butte Water District

RECEIVED
NOV 12 1991
WATER QUALITY DIVISION
WYOMING

PERMIT TO CONSTRUCT

[X] New Permit No. 91-305R

[ ] Renewal

[ ] Modified

Evanston Railyard Dumpsite
(Name of Facility)

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

Mr. Glenn Thomas

Union Pacific Railroad

1416 Dodge Street

Omaha, NE 68179

to install a series of temporary test holes (backhoe or auger) to obtain groundwater samples according to the procedures and conditions of the application No. 91-305R. The facility is located in NW¼ Sec 18, T15N, R120W (North of Evanston) in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

September 18, 1991
Date of Issuance

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

DG/jyi

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

PERMIT NO. 91-306

STATE GIRLS SCHOOL ROAD & BRUNDAGE LANE WATER LINE
(Name of Facility)

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

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

to construct, install or modify a water distribution facility according to the procedures and conditions of the application No. 91-306. The facility is located in 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 (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

2/3/92
Date of Issuance

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

SCF:pr

CONDITIONS

1. A variance is hereby granted from the requirements of Chapter XII, Section 14(h)(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.

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 91-307R
SPECIAL CONDITIONS

Coastal Chem, Inc. Fire Training Center

This permit hereby authorizes the applicant:

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

to construct, install or modify A fire training facility including secondary containment according to the procedures and conditions of the application number 91-307R. The facility is located in NW1/4 SE1/4, Section 17, T13N, R67W in the county of Laramie 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

10/8/92
Date of Issuance

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

SPECIAL CONDITIONS

1. All facilities shown on the drawing dated August 19, 1991 by Don Hopkins, P.E. and L.S. shall be incorporated into the final construction. All changes detailed in the letter of September 6, 1991 shall be incorporated into the final construction.

RFL/nc 23571.LTR

cc: Don Hopkins, P.E., P.O. Box 6106, Cheyenne, Wyoming

LAND APPLICATION PERMIT

[X] New

[ ] Renewal

[ ] Modified

PERMIT NO. 91-308

SEE SPECIAL CONDITIONS

SUSSEX UNIT ROAD APPLICATION
(Name of Facility)

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

CONOCO, INC.
851 Werner Court
Casper, Wyoming 82601

to land apply waste crude oil and sludges according to the procedures and conditions of the application No. 91-308. The application site is located in Sections 14, 15, 16, 21, 22, & 23, T.42N.., R.78W., in the County of Johnson, in the State of Wyoming. This permit shall be effective until November 1, 1991.

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

September 24, 1991
Date of Issuance

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

LAND APPLICATION SPECIAL CONDITIONS

1. Crude oil stained soils shall be applied uniformly. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist. Crude oil stained soils shall not be applied during the period from November 1 to April 30.

2. The application site slope shall not exceed 8 percent for vehicular application.

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

4. This permit is in effect for a period of six months from the date of issuance. Any water application after that time period must be repermitted.

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

DRM/pr

THE STATE OF WYOMING

Department of Environmental Quality

Air Quality Division
2161 Coffeen, Suite 501
Sheridan, Wyoming 82801
(307) 672-6457

Fax No. (307) 674-6050

Water Quality Division
2161 Coffeen, Annex
Sheridan, Wyoming 82801
(307) 672-6457

December 17, 1991

Mr. Patrick T. Tyrrell
Thunder Basin Coal Company
P.O. Box 406
Wright, Wyoming 82732-0406

RE: Black Thunder Mine Old Fuel Station;
Drilling Reports and Permit Application #91-309;
Campbell County, Wyoming;

Dear Mr. Tyrrell:

On September 11, 1991 the Department of Environmental Quality, Water Quality Division (DEQ/WQD), received a Permit to Construct Application for the facility referenced above. Pursuant to the recent information submitted and your letter dated December 3, 1991, we have withdrawn the application from our files. Enclosed are the materials submitted for that project.

According to recent drilling information, the groundwater detected previously in the backhoe pits is no longer present. Therefore a groundwater pollution control system is no longer necessary. If groundwater is encountered during initiation of cleanup measures, measures prescribed in the proposed remediation plan shall be implemented. The following comments are offered after reviewing the proposed remediation plan:

1. If groundwater is encountered, soils must be removed to a 30 mg/l TPH level. Groundwater must be handled appropriately, as proposed and approved.

2. If groundwater is not encountered, soils must be removed to a 100 mg/l TPH level. This is assuming that groundwater not encountered is more than 50 feet deep at this location.

3. The WQD must be given 14 days notice prior to initiating the remediation plan. WQD personnel may wish to be present during these cleanup activities. Written notice is not required, oral notice is appropriate.

4. Required authorization by LQD, BLM, and USFS must be received prior to instating this plan.

If you have questions or comments, please contact me at 672-6457.

Sincerely,

Edith Johnson-LaMeres
Senior Engineering Analyst
Water Quality Division

EJL:pr

Enclosure: WQD Permit Application #91-309

cc: Patti Burns, IPS, Cheyenne
Larry Barbula, LQD, Sheridan

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Avenue Annex
Sheridan, Wyoming 82801

PROJECT: Black Thunder Mine (Old Fuel Station)
Groundwater Pollution Control System
Campbell County

ENGINEER: Patrick Tyrrell
Wyoming P.E. #4870
Thunder Basin Coal Company

APPLICANT: Thunder Basin Coal Company
Black Thunder Mine
P.O. Box 406
Wright, Wyoming 82732-0406
(307) 939-1300

WATER QUALITY DIVISION REFERENCE NUMBER: 91-309

REVIEWING ENGINEER: Edith Johnson-LaMeres EJL

APPROVING ENGINEER: Don McKenzie DKM

DATE OF REVIEW: 11 October, 1991

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. Submit the following:

   a. schematic design of treatment system
   b. water disposal alternatives

2. Carbon filter system design specifications required.

3. Prior approval by BLM and USFS may be required.

4. Two additional copies of maps needed.

5. Treatment levels for BETX will be set dependant on disposal locations and methods approved by WQD or LQD.

These comments were given in a phone review on 10/11/91 to P.T. Tyrrell.

EJL/pr

Thunder Basin Coal Company
P.O. Box 406
Wright, Wyoming 82732-0406
Telephone 307 939 1300

91-309

DEC 1991
RECEIVED
WATER QUALITY
DIVISION
SHERIDAN

December 3, 1991

Ms. Edith Johnson-LaMeres
WDEQ / Water Quality Division
2161 Coffeen Avenue
Sheridan, WY 82801

Dear Ms. Johnson-LaMeres:

This letter is to request the withdrawal of our application for a permit to construct water treatment facilities associated with our Old Fuel Station site. The application was submitted to you in a letter from me dated September 11, 1991.

This request is a result of 12 shallow (30 feet in depth; see enclosed Exhibit C) boreholes drilled on an approximate 50-foot grid at the site which indicated an absence of saturated conditions. The newly drilled backfill well, BTB-6, which is adjacent to the site was also dry when drilled. The static water level elevation in November, 1991 was measured at approximately 4,538 feet above MSL (approximately 55 feet of water in the hole). The ground elevation at BTB-6 is 4,660.3. It is unclear at this time if this water is indicative of backfill recharge or remnant drilling fluids, although the latter is more likely.

If significant amounts of ground water are encountered during excavation of stained material, it will be pumped into a suitable holding tank and sampled. It will then be treated and/or discharged as appropriate. WQD will be made aware of the amount of water and sample results prior to treatment and disposal. If the amount of ground water encountered is minimal, it will be combined with the excavated backfill material and landfarmed.

We are also intending to return to the 100 ppm residual TPH cutoff point since ground-water contamination is not an issue. If we do find more water than anticipated, and need to perform treatment, the 30 ppm value will be reconsidered for those soils in the saturated zone.

If you have any questions, please call.

Sincerely,

P.T. Tyrrell, P.E.
Environmental Supervisor
Regulatory Affairs

Enclosure

cc: WAD-3-7-1
Doug Emme / LQD

PERMIT TO CONSTRUCT

[ ] New

[ ] Renewal

[X] Modified

Permit No. 91-310R

Big Island Mine - Pond 4 Modification
(Name of Facility)

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

Rhone-Poulenc of Wyoming Company

P. O. Box 513

Green River, WY 82935

to install an interior embankment within Pond 4 to settle out solids facility according to the procedures and conditions of the application No. 91-310. The facility is located in SE¼ Sec. 1, T20N, R109W 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

September 17, 1991
Date of Issuance

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

SR/jyi

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 91-311R

* CONDITIONED *

Jasperson Waterline
(Name of Facility)

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

Jamestown-Rio Vista Water & Sewer District

P. O. Box 267

Green River, Wy 82935

to construct or modify a water distribution system according to the procedures and conditions of the application No. 91-311R. The facility is located in South ½ Section 8, 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

1-30-92
Date of Issuance

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

SR/jyi

* CONDITION *

1. If any additional service connections are placed on this waterline any booster pump(s) must be moved to a location on the waterline hydraulically below all service connections. Any modifications to this system, including any new pump stations, will require a "Permit to Construct" from the Department of Environmental Quality, Water Quality Division (DEQ/WQD) .

R 7

PERMIT TO CONSTRUCT

PERMIT NO. 91-312
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

BELL NUMBER 8 MUNICIPAL WATER WELL

This permit hereby authorizes the applicant:

City of Cheyenne
Board of Public Utilities
2100 Pioneer Avenue
Cheyenne, WY 82003

to construct, install or modify a municipal water supply well according to the procedures and conditions of the application number 91-312. The facility is located in Section 14 NE¼ SW¼ Township 14 North Range 68 West in the county of Laramie, 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: Southeast District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

12-5-91
Date of Issuance

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

Conditions for Permit to Construct 91-312

1. The stated design goal of the engineer is to install a well screen to comply with the requirement of Chapter XII that the screen does not uncover due to drawdown at operating conditions. If after the completion of the well, and test pumping, it becomes necessary to operate the well with drawdown below the upper screen openings, a variance must be requested from the Department of Environmental Quality, Water Quality Division (DEQ/WQD). The request for variance must be accompanied with complete as-built information and test pumping data.

2. Before this well is placed in service, an Operating and Maintenance (O&M) Manual shall be prepared and submitted to the owner and DEQ/WQD. This manual should include complete as-built information, well logs, and test pumping data.

RL/jn

xc: Louis Harmon, DEQ/WQD
Bearlodge Ltd., Inc., P.O. Box 130, Sundance, Wyoming 82729

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

RECEIVED
MAR 1 1993
WATER QUALITY DIVISION
WYOMING

Department of Environmental Quality

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

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

February 26, 1993

Betty Kennedy
P.O. Box 1032
Greybull, WY 82426

Re: *As Built Approval* - Kennedy Mountain Cabin Holding Tank, **91-313RRR**

Dear Mrs. Kennedy:

The plans and specifications for the above referenced project have been reviewed and appear to comply with the minimum design standards, as defined by the State of Wyoming, for holding tanks. It is understood that the wastewater from this holding tank will be disposed of at the City of Greybull's sewage treatment lagoon.

A *Permit To Construct* cannot be issued owing to the fact that the system has already been constructed. However, please retain this letter as verification that the system has been accepted by the Department of Environmental Quality, Water Quality Division.

If you have further questions or comments, please do not hesitate to contact me.

Sincerely,

Robin J. Ross, EIT
Water Quality Division

RR/rjr

cc: Larry Robinson, DEQ/WQD, Cheyenne (w/out attachments)
Patti Burns, DEQ/WQD, IPS, Cheyenne (w/out attachments)
file (2)

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

RECEIVED
JAN 19 1993
WATER QUALITY DIVISION
WYOMING

Department of Environmental Quality

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

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

CERTIFIED P 884 136 089

January 15, 1993

Bruce M. Kennedy
P.O. Box 1032
Greybull, WY 82426

Re: Kennedy Mountain Cabin Holding Tank, **91-313**

Dear Mr. Kennedy:

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

Facility Name:	Kennedy Mountain Cabin Holding Tank
DEQ/WQD Reference Number:	91-313
Owner:	Bruce M. Kennedy
DEQ/WQD Reviewing Engineer:	Jeff Hermansky
Date of DEQ/WQD Review:	09/24/91

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

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

_____ The application will not be resubmitted as the proposed project has been canceled.

_____ The application will be resubmitted within 30 days.

_____ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

_____ Other remarks _____

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

Sincerely,

Robin J. Ross

Robin J. Ross
Senior Environmental Analyst
Water Quality Division

RR/rjr

cc: Jeff Hermansky, DEQ/WQD, Lander
Larry Robinson, DEQ/WQD, Cheyenne
Patti Burns, DEQ/WQD, IPS, Cheyenne
file (2)

PERMIT TO CONSTRUCT

PERMIT NO. 91-314
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

BURLINGTON NORTHERN RAILROAD

This permit hereby authorizes the applicant:

Burlington Northern Railroad
373 Inverness Drive South
Englewood, Colorado 80112

to construct, install or modify a system of monitor wells according to the procedures and conditions of the application number 91-314. The facility is located in Section 36 SE¼, Township 14 North, Range 67 West in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of five (5) years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

September 20, 1991
Date of Issuance

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

SPECIAL CONDITIONS ON PERMIT TO CONSTRUCT 91-314

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 91-314. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).

2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.

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

4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered 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. 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. 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 compatable 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.

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

8. Within 90 days of the issuance of this permit, a report 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. Final location, construction details and logs of monitor wells;

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

   e. Water level and product thickness measurements;

   f. Sample collection procedures;

   g. Sampling analytical results;

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

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

j. Interpretation of the data and conclusions including recommended remedial measures.

9. 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. All monitor wells associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters:

a. Purgeable Volatile Hydrocarbons using EPA Method 8240;

b. Base/Neutral and Acid Extractable Hydrocarbons using EPA Method 8270;

c. Arsenic, Barium, Cadmium, Lead, Mercury, Silver, and Selenium, using EPA 6010 series methods.

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

e. The results of these analyses shall be submitted to the Cheyenne office by the last day of the month following the end of each quarter. The first set of results are due by the last day of April, 1991.

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

RL/jn

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

R 7

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

November 5, 1991

Richard W. Davis, President
Geotechnical Corporation
P.O. Box 1292
Laramie, Wyoming 82070

RE: Wyoming Industrial Development Corp.
Monitor Well Permit 91-315
Natrona County, Wyoming

Dear Dr. Davis:

Enclosed please find the approved monitor well permit to construct on the Simmons Drilling Group / Wyoming Industrial Development Corp. case at 1330 North Derrick Drive in Casper. In accordance with the Administrative Order, Docket #2273-91, the sampling and analyses plan has been modified to require also Acetone and Phenanthrene since both of these compounds are shown as detected by the modified analytical results which you submitted on November 4, 1991.

The presence of Acetone at a level of 930 ug/l in the industrial waste and at a level of 48 ug/l in the sanitary septic tank is significant since Acetone has been found in the groundwater downgradient on Smith Energy Services property. I am enclosing a copy of a letter recently sent to Smith International which sets the cleanup levels for Acetone.

On Table 1 of your most recent report, you show that Methylene Chloride has no set MCL. This was undoubtedly because the EPA material which this department sent to you shows no MCL. Apparently, EPA Region VIII overlooked this MCL when preparing the handout. There is an MCL set for Methylene Chloride at 5 ug/l. For the same reason, the health advisory for bis(2-ethylhexyl)phthalate was also not shown on Table 1 of your most recent report. The HA for this chemical is 3 ug/l.

Sincerely,

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

RL/jn

Enclosure

xc: Jake Strohman, DEQ/WQD

PERMIT TO CONSTRUCT

PERMIT NO. 91-315

X New
Renewal
Modified

SIMMONS GROUP, MONITOR WELLS

This permit hereby authorizes the applicant:

Wyoming Industrial Development Corporation
P. O. Box 3599
Casper, WY 82602
Attn: Scott Weaver

to construct, install or modify a system of monitor wells according to the procedures and conditions of the application number 91-315. The facility is located in Section 34 SW¼ SW¼, Township 34 North, Range 80 West 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: Groundwater Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

11/7/91
Date of Issuance

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

Conditions to Permit to Construct # 91-315

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 91-315. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).

2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.

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

4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered 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. 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. 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 compatable 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.

7. 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. 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, well locations and sea level elevations accurate to .01 feet;

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

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

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

   f. Water level and product thickness measurements;

g. Sample collection procedures;

h. Sampling analytical results;

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

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

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

9. 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. All monitor wells associated with this facility shall be sampled and the groundwater analyzed quarterly for the following listed parameters:

a. Acetone using EPA Method 8000.

b. Benzene using EPA Method 624.

c. Ethylbenzene using EPA Method 624.

d. Toluene using EPA Method 624.

e. Xylenes using a modified EPA Method 624.

f. Phenols using EPA Method 420.1

g. Methylene Chloride using EPA Method 624.

h. Tetrachloroethene (PCE) using EPA Method 624.

i. Trichloroethene (TCE) using EPA Method 624.

j. Napthalene using EPA Method 625.

k. Acenapthalene using EPA Method 625.

l. Fluorene using EPA Method 625.

m. Pyrene using EPA Method 625.

n. Butylbenzylphthalate using EPA Method 625.

o. Bis (2-ethylhexyl)phthalate using EPA Method 625.

p. Di-n-octylphthalate using EPA Method 625.

q. Phenanthrene using EPA Method 625.

r. Lead as Pb using EPA 200 series methods.

s. Chromium as Pb using EPA 200 series methods.

t. Total Petroleum Hydrocarbon using EPA Method 418.1

u. 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.

v. The results of these analyses shall be submitted to the Cheyenne office by the last day of the month following the end of each fiscal quarter from the date of this permit. The first set of results are due by the last day of February, 1992.

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

RL/jn

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

R7

PERMIT TO CONSTRUCT

PERMIT NO. 91-316

X New
Renewal
Modified

CHEYENNE BOPU MISCELLEANOUS WATER AND SEWER IMPROVEMENTS

This permit hereby authorizes the applicant:

CHEYENNE BOARD OF PUBLIC UTILITIES
P.O. BOX 1469
Cheyenne, WY 82003-1469

to construct, install or modify the replacement of deteriorated water and sewer lines and appurtenances according to the procedures and conditions of the application number 91-316. The facility is located in various locations in T14N R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of five years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

October 14, 1991
Date of Issuance

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

LBH\mad

R7

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 91-317

Septic Tank Waste Disposal Facility for the City of Douglas

This permit hereby authorizes the applicant:

City of Douglas
101 North 4th Street
Douglas, Wyoming 82633

to construct, install or modify a Septic Tank Waste Disposal Facility according to the procedures and conditions of the application number 91-317. The facility is located in Section 17, T32N, R71W 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: Program Supervisor, CMAG 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

3/26/92
Date of Issuance

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

ME/nc 20863.LTR

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

March 20, 1992

Al Figuly
City Administrator
City of Douglas
101 North 4th Street
Douglas, Wyoming 82633

RE: City of Douglas, Wyoming; Federal Sewage Works Grant C560270-94; DEQ/WQD Ref. No. 91-317; Approval of Plans and Specifications

Dear Mr. Figuly:

The plans and specifications for the construction of the Septic Tank Waste Disposal Facility for the City of Douglas have been reviewed by the State of Wyoming Department of Environmental Quality. This office hereby approves the plans and specifications and is enclosing a permit to construct. This permit does not supersede the requirements for obtaining any permit from local or state agencies.

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

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

This is confirmation of our verbal authorization for the project to be advertised and bids opened. You are requested to furnish this

office with the date this project is advertised and the date on which bids will be opened as soon as possible. You are reminded to complete the enclosed checklist and associated documentation when bids are opened.

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

1. Contracts may not be awarded until authorization has been given by the Department of Environmental Quality.

2. Prior DEQ approval is required for rejection of bids on any contract on this project.

3. Currant wage rates must be in the specifications prior to bid opening.

4. Bidders must submit, with their bid, a signed statement as to whether they have previously performed work subject to the President's Executive Order Number 11246.

5. Contact EPA if any questions arise concerning MBE/WBE utilization on this project.

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

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/MAE/nc 20862.LTR

cc: Carl Heskett, EPA Region VIII
CEPI, Casper, WY
Grant File

R7

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

March 12, 1992

Barry Venn
Civil Engineering Professionals, Incorporated
355 North Lincoln Street
Casper, Wyoming 82601

RE: Federal Sewage Works Grant C560270-94; City of Douglas Septic Waste Disposal Facility Project; Plans and Specification Review, WQD Ref. No. 91-317

Dear Barry:

The plans and specifications for the City of Douglas Septic Tank Waste Disposal Facility, received February 19, 1992, have been reviewed by the Wyoming Department of Environmental Quality, Water Quality Division. Our comments are presented below:

SPECIFICATIONS

1. The Federal Wage Determination used is not the wage determination which was enclosed with my letter dated October 17, 1991. The General Wage Decision Number WY91-1 should be used. The wage decision included in the specifications is only for Natrona County. A copy of WY91-1 has been enclosed for your use. Ten days prior to bid opening, the currant wage rate needs to be verified with the Department of Labor. If it has been modified, the modified wage determination will need to be included in an addendum.

2. Is the trash receptacle to be included in the project or provided by the owner? It has been removed from the bid schedule but is still included in the Section 701, Miscellaneous Specialties.

ELIGIBILITY

1. The demolition and removal of the existing wood fence is not eligible for EPA participation.

Please submit five copies of the revised plans and specifications in order that we may facilitate approval and issue a permit to construct.

Sincerely,

Mark A. Escobedo

Mark A. Escobedo
Senior Analyst
Water Quality Division

MAE/nc 20750.LTR

Enclosure

cc: Al Figuly, City of Douglas
Lou Harmon, DEQ/WQD, Cheyenne
Grant File

PERMIT TO CONSTRUCT

[X] New

Permit No. 91-318RRR
* CONDITIONED *
REF: 84-568RRR
85-617
86-246R

[ ] Renewal

[X] Modified

Oilfield Disposal Services Pit Modification
(Name of Facility)

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

Oilfield Disposal Services, Inc.

P.O. Box 668

Worland, WY 82401

to install a spray system to enhance evaporation, two (2) separator tanks, and a skirted boom as well as construct a truck unloading area and discharge line according to the procedures and conditions of the application No. 91-318RRR. The facility is located in SE¼ Section 18 and SW¼ Section 17, T47N, R89W in the County of Washakie, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

for Administrator
Water Quality Division

Director
Dept. of Environmental Quality

9/3/93
Date of Issuance

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

JH/jyi

This permit is issued with the requirement that the permittee abide by the following conditions:

CONDITIONS 1 through 6

1. of 6 The applicant will notify the appropriate district 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 6 The applicant will provide immediate oral and/or written notice to Water Quality Division, 250 Lincoln, Lander, WY 82520, (307) 332-3144, 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 6 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Water Quality Division, 250 Lincoln, Lander, WY 82520, 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-built plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4. of 6 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5. of 6 A composite grab sample must be collected and analyzed on an annual basis. The sample must be analyzed for TDX, TCLP metals, conductivity, TDS, chlorides, pH, sulfates, TPH, and Radium 226. The results must be submitted to the Department of Environmental Quality, Water Quality

Division (DEQ/WQD), Lander by June 30th of each year. Additional sampling may be required depending upon test results.

If groundwater is found in any of the monitor wells, the DEQ/WQD in Lander must be notified immediately. The parameters for monitoirng will be determined by the DEQ/WQD groundwater section at that time.

b/34111.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 91-318RRR

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. YES

B. Chapter XII. N/A

C. Chapter XIV. NO

III. Basis for issuing permit.

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 Chapter XIV in accordance with approved policy statement based on oral discussions.

YES

Chapter XIV, Section 2(d), states that financial assurance will be required for all modified commercial oil field waste disposal facilities. The purpose is to assure there are adequate funds available to provide for the closure and reclamation of disposal facilities. These requirements apply only to the modifications.

The requirement to provide a financial assurance bond for this facility modification has been waived because:

1. The items included in this permit modification have salvage value and are likely to be removed by the owner upon closure.

2. The projected closure costs of $885.00 for the modifications are only a small fraction of the closure and reclamation costs for the entire facility and provides no incentive for the owner to properly close the facility.

3. It has been determined that it would be fiscally counterproductive in terms of DEQ time and resources to administer such a small bond both initially and on an annual basis.

IV. Facilities not specifically covered by regulations.

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

N/A

B. Briefly state the basis for the deviation.

N/A

C. Permit based on general or statewide deviation contained in approved policy statement.

N/A

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.
N/A

VI. Documentation of Statement of Basis.

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

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 91-319

Union Pacific Resources Company
(Name of Facility)

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

Union Pacific Resources Company

P. O. Box 7, M. S. 4011

Fort Worth, Texas 76101-0007

to install a series of groundwater monitoring wells according to the procedures and conditions of the application No. 91-319. The wells are located in SE¼ Sec. 25, T19N, R99W (Patrick Draw Gas Plant) 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

October 7, 1991
Date of Issuance

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

DG/jyi

Conditions for Monitoring Wells

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 91-310. Additional wells meeting the requirements of the application this permit may be installed if prior approval is received from the Water Quality Division (WQD).

2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.

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

4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.

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

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:

   a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;

b. The borehole diameter shall be at least four inches larger in diameter that the casing diameter;

c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level; Factory slotted casing is recommended for the perforated interval;

d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;

e. To minimize the entrance of fine grained material into the well the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;

f. Factory slotted casing is recommended for the perforated interval. Slotted casing shall extend 1 - 2 feet above highest expected groundwater table;

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

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

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

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

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

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

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

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

c. Final location, construction details and logs of all monitoring wells;

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

e. Water level and product thickness measurements;

f. Sample collection procedures;

g. Sampling analytical results;

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

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

j. Interpretation of data and conclusions including recommended remedial measures.

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

10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed quarterly (schedule) for BETX (EPA Method 502.2 or 602), and TPH (EPA Method 418.1).

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

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

11. All contaminated drill cuttings and contaminated water from well development or aquifer testing shall be disposed of properly in accordance with Department of Environmental Quality, Water Quality Division and Solid Waste Management Program guidelines.

RF

PERMIT TO CONSTRUCT

PERMIT NO. 91-320
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

CITY OF LARAMIE WASTEWATER TREATMENT PLANT LAGOON EFFLUENT CHLORINATION FACILITY

This permit hereby authorizes the applicant:

City of Laramie
P O Box C
Laramie, WY 82070

to construct, install or modify a wastewater lagoon effluent chlorination facility according to the procedures and conditions of the application number 91-320. The facility is located in Section 20, Township 16 North, Range 73 West 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, 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

1-10-92
Date of Issuance

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

Conditions for Permit to Construct #91-320

1. The chlorination building must be heated.

2. All piping associated with the chlorination system must be of such material and installed in such a manner as to comply with the piping requirements for chlorination facilities as specified in Part B, Section 21, (a), (iii), (C) of the Wyoming Department of Environmental Quality Water Quality Rules and Regulations Chapter XI which states:

(C) Piping. Piping systems carrying gaseous or liquid chlorine shall be schedule 80 black steel pipe with forged steel fittings. Bushings shall not be used. Vacuum piping for gaseous chlorine may be polyethylene tubing.

Gas piping between the chlorine pressure reducing valve of the chlorinator and the ejector shall be PVC or polyethylene. Piping for aqueous solutions of chlorine beyond the ejector shall be PVC, fiberglass, or steel pipe lined with PVC or saran.

3. The chlorinator unit shall be equipped with both automatic sensing and switch between the two banks of chlorine gas cylinders when either bank become(s) operationally empty.

RE/mad

STATE OF WYOMING
DEPARTMENT OF ENVIRONMENTAL QUALITY/WATER QUALITY DIVISION

UNDERGROUND INJECTION CONTROL PERMIT

TRANSFER OF RESPONSIBILITY

PART I

As present owner/operator _____ (name) hereby applies to the Administrator to transfer the operation and all associated responsibilities of the permit described in full on the reverse side.

Printed name of person signing _____ Signed _____

Title _____ Date _____

PART II

As potential transferee Caballo Coal Company * (name and address) agrees to be bound by all the terms and conditions of the permit described on the reverse side. (In addition, the potential transferee must complete this form to show financial responsibility.) If this permit is presently out of compliance, the potential transferee agrees to bring the operation into compliance according to the (schedule, agreement, letter, notice, _____) identified and dated __/__/__. * Caballo Coal Company is a wholly owned subsidiary of Powder River Coal Company

Larry H. Fox
Printed name of person signing

Signed Larry H Fox

President, Caballo Coal Company
Title

12/19/94
Date

==========

APPROVAL FOR TRANSFER OF RESPONSIBILITY

Reference Permit # 91-321

TO:		and	
	Caballo Coal Company		The Carter Mining Company
	Caller Box 3037		PO Box 3007
	Gillette, Wyoming 82717		Gillette, Wyoming 82716
	(new/present owner/operator)		(former owner/operator)

This transfer for permit 91-321 is approved effective on the later of the two dates below:

Administrator - Water Quality Division — Date 12-22-94

Director - Department of Environmental Quality — 12-22-94

MISCELLANEOUS FINANCIAL REPORT

NAME OF FACILITY Caballo Clinker Recharge Project

LOCATION (T, R, SEC., ¼ ¼; COUNTY) T 48 N, R 71 W, Sections 23 and 24

PERMIT NUMBER, IF ISSUED 91-321

PRESENT OWNERS NAME AND ADDRESS The Carter Mining Co. PO Box 3007
Gillette, Wyoming 82716

==========

CERTIFICATION OF FINANCIAL RESPONSIBILITY

N/A

The above-names owner(s) has adequate financial resources for dealing with the above identified GPC discharge (injection) well(s) and system(s) which either may be improperly abandoned or may otherwise cause pollution and contamination of groundwater sources, and with incomplete or inadequate groundwater pollution reduction or elimination.

Submitted with this document, as proof of adequate financial resources is (check and submit one of the following):

( ) A copy of the latest Annual Corporation Report to the Wyoming Secretary of State which shows Nature and Value of Assets and copies or relevant instruments or statements which show liabilities, and accounts and goods as collateral; or

( ) Balance Sheet showing Assets and Liabilities, Owner's Equity and Statements of Operations for the most recent three years.

==========

SIGNATORIES REQUIREMENT FOR CERTIFICATION OF FINANCIAL RESPONSIBILITY

The Certification 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.

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.

Printed name of person signing	Title
Date signed	Signature

file

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

September 20, 1991

Wendy Hutchinson, Hydrologist
The Carter Mining Company
P.O. Box 3007
Gillette, Wyoming 82717-3007

RE: Caballo Clinker Recharge Project, Permit UIC 85-341, class 5R21, Campbell County, Wyoming

Dear Ms. Hutchinson:

Enclosed please find one copy of a draft UIC permit numbered 91-321 which will completely replace the above referenced permit when signed. Please review this permit and let me know if there are changes needed. Especially look at the method numbers required for analyses. These can be changed if your laboratory cannot do those particular methods.

Please note that this department needs an authorization signed by at least a Vice President designating someone to sign the reports. Please have this authorization drafted to reference the position within your company of the person to sign the reports, and reference both the old and new permit numbers.

Sincerely,

Robert Lucht

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

RL/nc

xc: Jon Sweet, LQD Sheridan w/draft permit
Jake Strohman

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

( ) New

(X) Modified Reference Old Permit 85-341

Permit Number:

91-321
UIC CLASS 5R21

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),

The Carter Mining Company
P.O. Box 3007
Gillette, Wyoming 82716
Attn: Wendy Hutchinson, Hydrologist
(307) 686-3210

is authorized to operate

The Caballo Clinker Recharge Project in Sections 23 and 24, Township 48 North, Range 71 West, of the 6th Principal Meridian

according to procedures and conditions of the application 85-341 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

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

November 20, 1991
Date

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

November 21, 1991
Date

A. Discharge (Injection) Zone and Area of Review

Discharge Zone

These injection wells are authorized to inject into the "DW-2 clinker unit" of the Fort Union Formation which is found at this location from 70 to 105 feet below the ground surface.

Area of Review

The facility authorized by this permit is located in:

Township 48 North, Range 71 West, 6th Principal Meridian
Section 23: NE1/4 SE1/4

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

Township 48 North, Range 71 West, 6th Principal Meridian
Section 22: ALL
Section 23: ALL
Section 24: ALL
Section 25: ALL
Section 26: ALL
Section 27: ALL
Section 34: ALL
Section 35: ALL
Section 36: ALL

B. Groundwater Classification

The groundwater in the "DW-2 clinker unit" of the Fort Union Formation is classified as class III under Chapter VIII of Wyoming Water Quality Rules and Regulations (April 9, 1980). This classification was made because:

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

and

2. The groundwater in this formation is presently being used as a source of water which meets the definition of class III.

C. Authorized Operations

The permittee is authorized to inject 68,571 barrels per day (2,880,000 gallons per day or 2,000 gallons per minute) of groundwater produced from any unit within the Fort Union Formation. Injection shall be into existing well DW-2, or additional wells to be completed into the same clinker unit. This permit authorizes the construction of up to 5 additional injection wells within the same 1/4 section of Section 23.

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

The permittee is authorized to inject at a pressure of no more than atmospheric pressure or below.

The permittee shall not inject anything above the upper control limits used in Section G.

Hazardous Waste

This permit does not allow for the injection of any waste whatsoever, especially 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 this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.

3. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The name(s) of individual(s) who performed the sampling or measurements;

   c. The date(s) analyses were performed;

   d. Name of laboratory which 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 on the following schedule and for the following parameters. The results of these analyses shall be reported as part of the quarterly report of injection.

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (UCL)*
CA-993-CL	Annually	EPA 273.1	Sodium	200
CA-993-CL	Annually	EPA 242.1	Magnesium	200
CA-993-CL	Annually	EPA 215.1	Calcium	600
CA-993-CL	Annually	EPA 310.1	Bicarbonate	400
CA-993-CL	Annually	EPA 375.3	Sulfate	3,000
CA-993-CL	Annually	EPA 350.1	Ammonia as N	3.0
CA-993-CL	Annually	EPA 354.2	Nitrate as N	10.0
CA-993-CL	Annually	EPA 160.1	Total Dissolved Solids	5,000
CA-993-CL	Annually	EPA 200.7	Boron	5.0
CA-993-CL	Annually	EPA 150.1	pH	5.0 to 9.0
CA-993-CL	Annually	EPA 270.3	Selenium	.1
CA-993-CL	Monthly	Probe	Static Water Level	No higher than elevation 4450'

CA-994-CL	Annually	EPA 273.1	Sodium	200
CA-994-CL	Annually	EPA 242.1	Magnesium	200
CA-994-CL	Annually	EPA 215.1	Calcium	600
CA-994-CL	Annually	EPA 31•.1	Bicarbonate	400
CA-994-CL	Annually	EPA 375.3	Sulfate	3,000
CA-994-CL	Annually	EPA 350.1	Ammonia as N	3.0
CA-994-CL	Annually	EPA 354.1	Nitrate as N	10.0
CA-994-CL	Annually	EPA 160.1	Total Dissolved Solids	5,000
CA-994-CL	Annually	EPA 200.7	Boron	5.0
CA-994-CL	Annually	EPA 150.1	pH	5.0 to 9.0
CA-994-CL	Annually	EPA 270.3	Selenium	.1
CA-994-CL	Monthly	Probe	Static Water Level	No higher than elevation 4450'

*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. Well CA-993-CL is covered by State Engineer's permit UW-81592 and well CA-994-CL is covered by State Engineer's permit UW-81593.

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.

G. Requirements for Monitoring the Discharge

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

The permittee shall monitor the quality of the injectate fluid on an approved schedule. The following parameters shall be analyzed by the listed methods and reported quarterly:

SCHEDULE	APPROVED METHOD	PARAMETER	UCL*
Quarterly	EPA 273.1	Sodium	200
Quarterly	EPA 242.1	Magnesium	200
Quarterly	EPA 215.1	Calcium	600
Quarterly	EPA 310.1	Bicarbonate	400
Quarterly	EPA 375.3	Sulfate	3,000
Quarterly	EPA 350.1	Ammonia as N	3.0
Quarterly	EPA 354.1	Nitrate as N	10.0
Quarterly	EPA 160.1	Total Dissolved Solids	5,000
Quarterly	EPA 200.7	Boron	5.0
Quarterly	EPA 150.1	pH	5.0 to 9.0
Quarterly	EPA 270.3	Selenium	.1

*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) shall apply to a rolling average of 4 consecutive samples on the above schedule. Exceedance of this value in any average of 4 consecutive samples is a violation 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.

9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.

10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:

    a. Well construction is complete and the permittee has submitted notice of completion of construction to the administrator, and

    b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and

    c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the administrator.

11. Quarterly reports shall be submitted to the administrator within 30 days following the end of each calendar quarter.

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.

13. Quarterly Reports shall contain the following information:

    a. The total volume of water recharged into this aquifer recharge system and the exact source of this water down to the specific well which produced that water. The volumes are to be reported monthly and totaled quarterly, annually, and for the life of the project for each source of water recharged.

    b. The reported analytical data required under section F4 and G of this permit.

c. Any significant events that happened during the quarter which affected the injection. This includes but is not limited to: all permit violations recognized, and any test work conducted in conjunction with this system, and change in the source of water.

J. Permit Actions

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

1. Violation of the permit;

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

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

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

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

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

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

K. Mechanical Integrity

The concept of mechanical integrity testing does not apply to this permit. There are no mechanical integrity requirements for this permit.

L. Abandonment

The permittee shall notify the administrator at least 180 days before well abandonment.

At the conclusion of this injection, wells associated with this permit need not be abandoned, provided that the proper State Engineer's permits are maintained for their use as groundwater source wells. If there is no foreseeable use for these wells, they shall be abandoned in accordance with Chapter XI, Part G, Section 70 of the Wyoming Water Quality Rules and Regulations.

M. Duties of the Permittee

It is a duty of the permittee to:

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.

/nc

cc: Jake Strohman, DEQ/WQD

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 91-322

3 Forks Muddy Gap Service
(Name of Facility)

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

Frank E. Erickson

Lander Rt. Box 1bc

Rawlins, WY 82301

to install a 1500 gallon septic tank and leach field bed facility according to the procedures and conditions of the application No. 91-322. The facility is located in SW¼, SW¼, Sec. 26, T28N, R89W 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

11-12-91
Date of Issuance

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

BL/hyi

PERMIT TO CONSTRUCT

[X] New Permit No. 91-323R

[ ] Renewal

[ ] Modified

Stock Complex Sewer
(Name of Facility)

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

Buffalo Bill Historical Center

ATTN: Wally Reber

P. O. Box 1000

Cody, WY 82414

to construct a sewage collection system to serve four (4) buildings in the Stock Complex according to the procedures and conditions of the application No. 91-323R. The facility is located in Tract 91, T53N, R101W, resurvey in the County of Park, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

11-20-91
Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

[X] New Permit No. 91-324

[ ] Renewal

[ ] Modified

Lake Viva Naughton Septic System
(Name of Facility)

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

Larry L. Cook

P. O. Box 111

Kemmerer, WY 83101

to modify an existing mechanical wastewater treatment plant to a septic tank and leach field facility according to the procedures and conditions of the application No. 91-324. The facility is located in SE¼ Sec 11, T23N, R117W 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

October 7, 1991
Date of Issuance

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

BL/jyi

RF

PERMIT TO CONSTRUCT

PERMIT NO. 91-325
Ref. No. 85-245
SEE SPECIAL CONDITIONS

New
Renewal
X Modified

Coastal Chem Domestic Drainfield

This permit hereby authorizes the applicant:

Coastal Chem Inc
P O Box 1287
Cheyenne, WY 82003

to construct, install or modify sanitary septic system according to the procedures and conditions of the application number 91-325. The facility is located in Section 16 & 17 T13N, R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of (5) five years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

12/9/91
Date of Issuance

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

CONDITION TO PERMIT TO CONSTRUCT #91-325

The permittee shall notify Don Pack, Cheyenne Laramie County Health Department, Division of Environmental Health, 1710 Snyder Avenue, Cheyenne, WY 82001, phone number (307) 638-8545 of the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling.

RFL/LH/mad
cc: Don Pack, Laramie County Environmental Health
Lou Harmon

PERMIT TO CONSTRUCT

[X] New Permit No. 91-326R

[ ] Renewal

[ ] Modified

High Country Subdivision Water System Chlorinator
(Name of Facility)

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

High Country Water District

P.O. Box 1598

Jackson, WY 83001

to install, a dry pellet chlorinator for chlorine residual maintenance in distribution system. facility according to the procedures and conditions of the application No. 91-326R. The facility is located in SE 1/4 SE 1/4 Section 31, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

OCT 30 1991
Date of Issuance

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

R7

PERMIT TO CONSTRUCT

PERMIT NO. 91-328
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

DOUGLAS NORTH PLATTE RIVER INTAKE

This permit hereby authorizes the applicant:

CITY OF DOUGLAS
101 NORTH 4TH STREET
DOUGLAS, WY 82633

to construct, install or modify a water intake structure according to the procedures and conditions of the application number 91-328. The facility is located in NE 14 Section 8 T32N R71W in the county of Converse, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

October 14, 1991
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #91-328

1. Due to the likelihood of ice damage, locating the intake screen as required by Section 9 of Chapter XI DEQ/WQD Regulations over the 24" pipe in the drop box is accepted. However, a long handled fish net should be provided as part of this project to catch any fish that fall into the inlet and return them to the river. This should be done on a daily basis while the intake is in operation.

2. All Dresser couplings shall be coated with a coating applied according to manufacturer's instructions and protected with cathodic protection with a 20 year minimum design life.

3. An operation and maintenance manual must be submitted for DEQ/WQD approval before the intake structure is placed in service.

LBH\mad

cc: CEPI
Robert Pistono, Wyoming Game and Fish

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

PERMIT NO. 91-329

RENO JUNCTION SHOP EVAPORATION POND
(Name of Facility)

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

Department of Transportation
P.O. Box 1708
Cheyenne, WY 82002

to construct, install or modify an evaporation pond facility according to the procedures and conditions of the application No. 91-329. The facility is located in Section 11 Township 43 North Range 72 West, in the County of Campbell 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

October 22, 1991
Date of Issuance

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

SCF:pr

PERMIT TO CONSTRUCT
* CONDITIONS *

[X] New Permit No. 91-330

[ ] Renewal

[ ] Modified

Dallas Dome Oil Field Road Application
(Name of Facility)

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

Unocal Oil & Gas Division

ATTN: Brett Liggett

P. O. Box 2620

Casper, WY 82602-2620

to road apply about 15 yd^3 oil/wet sediments on new roads in field facility according to the procedures and conditions of the application No. 91-330. The facility is located in Sections 13 & 14, T32N, R99W 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

OCT 22 1991
Date of Issuance

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

JH/jyi

ROAD APPLICATION STANDARD CONDITIONS

1. Waste oil and sludge shall be applied by a method and at a rate which will prevent runoff or ponding after incorporation into the road. Applications shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.

2. The slope of the roads application shall not exceed 8 percent.

3. Waste oil and sludge application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainage, irrigation canals, lakes and reservoirs.

4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Steve Gerber phone number 332-3144, to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of application and must be informed how much waste oil and sludge will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

5. Waste oil and sludges applied to a road will be mechanically incorporated into the road bed. Wastes will not be applied during the period from November 1 to April 30.

6. Only the roads designated in this permit are authorized for application of the waste oil and sludge. Additional or alternate sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the Water Quality Division.

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

250 Lincoln Street • Lander, Wyoming 82520-2848

Air Quality Division	Land Quality Division	Solid Waste Management Program	Water Quality Division
(307) 332-6755	(307) 332-3047	(307) 332-6924	(307) 332-3144

October 24, 1991

Gary Starbuck, Superintendent
Wyoming Honor Farm
P. O. Box 32
Riverton, WY 82501

ARCHIVES

RE: As-Built Sewer Plans, 91-331

Dear Mr. Starbuck:

A section of the Honor Farm sewer line located just north of the meat processing plant and horse/tack barn was replaced this past summer. The Water Quality Rules and Regulations require that prior to the modification or construction of any sewage collection or treatment facility, a permit is obtained from the Department of Environmental Quality, Water Quality Division (DEQ/WQD). A permit to construct is also required for the construction or modification of public water supply systems.

Since no permit was issued, the Wyoming Honor Farm had as-built plans submitted for DEQ/WQD review. This office has reviewed these as-built plans and found that the construction meets the regulations and is therefore authorized. No permit to construct will be issued since the construction is already completed.

In the future, please ensure that no construction of sewer or water facilities takes place until a permit to construct is issued. We feel it is very important that State agencys abide by the same rules that apply to the public.

Thank you for your assistance.

Sincerely,

Jeff Hermansky

Jeff Hermansky, P.E.
Water Quality Evaluator

JH/jyi
cc: Terry Zenk, Apex Surveying, Inc.
Plans 91-331
file (2)

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

(X) New — Permit Number: UIC 91-332

Modified — 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),

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

is authorized to operate:

a diesel recovery system and groundwater remediation injection wells

in the NW1/4 NE1/4, SW1/4 NE1/4, SE1/4 NE1/4 Section 22, Township 18 North, Range 107 West, of the 6th Principal Meridian; according to the procedures and conditions of application #91-332 and requirements and other conditions of this permit.

This permit shall become effective on date of issuance.

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

Oct 23, 1991
Date

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

October 23, 1991
Date

A. Discharge (Injection) Zone and Area of Review

Discharge Zone

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

Area of Review

The facility authorized by this permit is located in:

Township 18 North, Range 107 West, 6th Principal Meridian
Section 22: NW1/4 NE1/4, SW1/4 NE1/4, SE1/4 NE1/4

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

Township 18 North, Range 107 West, 6th Principal Meridian
Section 17: S1/2 SE1/4, SE1/4 SW1/4
Section 22: NE1/4, E1/2 NW1/4, N1/2 SE1/4
Section 23: W1/2 NW1/4, NW1/4 SW1/4

B. Groundwater Classification

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

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

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

C. Authorized Operations

The permittee is authorized to inject 514 barrels per day, (21,600 gallons per day) of wastewater into the roundhouse area infiltration gallery and 1714 barrels per day, (72,000 gallons per day) of wastewater into the diesel storage area infiltration gallery as described:

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

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

Hazardous Waste

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

D. Proper Operation and Maintenance

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

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

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

E. Entry and Inspection

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

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the appropriate rules and regulations of the Department, any substances or parameters at any location.

F. Environmental Monitoring Program for Groundwaters of the State

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. The permittee shall prepare records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation to be retained for a period of at least 3 years after closure of the facility.

3. Records of monitoring information shall include:

   a. The date, exact place, and time of sampling or measurements;

   b. The name(s) of individual(s) who performed the sampling or measurements;

   c. The date(s) analyses were performed;

   d. Names of individuals who performed the analyses;

   e. The analytical techniques or methods used; and

   f. The results of such analyses.

4. The prescribed program for this permitted activity is as follows:

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

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (TRV)*
GR-1	Quarterly	EPA Method 610	Napthalene	.020
GR-13	Annually	EPA Method 610	Napthalene	.020
GR-14	Annually	EPA Method 610	Napthalene	.020
GR-15	Annually	EPA Method 610	Napthalene	.020
GR-16	Quarterly	EPA Method 610	Napthalene	.020
GR-18	Quarterly	EPA Method 610	Napthalene	.020
GR-20	Annually	EPA Method 610	Napthalene	.020
GR-21	Annually	EPA Method 610	Napthalene	.020
GR-22	Annually	EPA Method 610	Napthalene	.020
GR-23	Annually	EPA Method 610	Napthalene	.020
GR-24	Annually	EPA Method 610	Napthalene	.020
GR-28	Quarterly	EPA Method 610	Napthalene	.020
GR-34	Quarterly	EPA Method 610	Napthalene	.020
GR-36	Quarterly	EPA Method 610	Napthalene	.020
GR-46	Quarterly	EPA Method 610	Napthalene	.020
GR-47	Quarterly	EPA Method 610	Napthalene	.020
GR-50	Quarterly	EPA Method 610	Napthalene	.020
GR-1	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-13	Annually	EPA Method 610	2-Methylnapthalene	
GR-14	Annually	EPA Method 610	2-Methylnapthalene	
GR-15	Annually	EPA Method 610	2-Methylnapthalene	
GR-16	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-18	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-20	Annually	EPA Method 610	2-Methylnapthalene	
GR-21	Annually	EPA Method 610	2-Methylnapthalene	
GR-22	Annually	EPA Method 610	2-Methylnapthalene	
GR-23	Annually	EPA Method 610	2-Methylnapthalene	
GR-24	Annually	EPA Method 610	2-Methylnapthalene	

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (TRV)*
GR-28	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-34	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-36	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-46	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-47	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-50	Quarterly	EPA Method 610	2-Methylnapthalene	
GR-1	Quarterly	EPA Method 418.1	TPH	10
GR-13	Annually	EPA Method 418.1	TPH	10
GR-14	Annually	EPA Method 418.1	TPH	10
GR-15	Annually	EPA Method 418.1	TPH	10
GR-16	Quarterly	EPA Method 418.1	TPH	10
GR-18	Quarterly	EPA Method 418.1	TPH	10
GR-20	Annually	EPA Method 418.1	TPH	10
GR-21	Annually	EPA Method 418.1	TPH	10
GR-22	Annually	EPA Method 418.1	TPH	10
GR-23	Annually	EPA Method 418.1	TPH	10
GR-24	Annually	EPA Method 418.1	TPH	10
GR-28	Quarterly	EPA Method 418.1	TPH	10
GR-34	Quarterly	EPA Method 418.1	TPH	10
GR-36	Quarterly	EPA Method 418.1	TPH	10
GR-42	Annually	EPA Method 418.1	TPH	10
GR-43	Annually	EPA Method 418.1	TPH	10
GR-44	Annually	EPA Method 418.1	TPH	10
GR-45	Annually	EPA Method 418.1	TPH	10
GR-46	Quarterly	EPA Method 418.1	TPH	10
GR-47	Quarterly	EPA Method 418.1	TPH	10
GR-50	Quarterly	EPA Method 418.1	TPH	10
GR-10	Monthly	Probe	SWL and FPT	
GR-16	Monthly	Probe	SWL and FPT	
GR-17	Monthly	Probe	SWL and FPT	
GR-18	Monthly	Probe	SWL and FPT	
GR-23	Monthly	Probe	SWL and FPT	
GR-24	Monthly	Probe	SWL and FPT	
GR-26	Monthly	Probe	SWL and FPT	
GR-27	Monthly	Probe	SWL and FPT	
GR-28	Monthly	Probe	SWL and FPT	
GR-34	Monthly	Probe	SWL and FPT	
GR-35	Monthly	Probe	SWL and FPT	
GR-36	Monthly	Probe	SWL and FPT	
GR-37	Monthly	Probe	SWL and FPT	
GR-40B	Monthly	Probe	SWL and FPT	
GR-46	Monthly	Probe	SWL and FPT	
GR-47	Monthly	Probe	SWL and FPT	
GR-48	Monthly	Probe	SWL and FPT	
GR-49	Monthly	Probe	SWL and FPT	
GR-50	Monthly	Probe	SWL and FPT	
GR-51	Monthly	Probe	SWL and FPT	
GR-52	Monthly	Probe	SWL and FPT	
GR-1	Quarterly	Probe	SWL and FPT	

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (TRV)*
GR-2	Annually	Probe	SWL and FPT	
GR-3	Quarterly	Probe	SWL and FPT	
GR-4	Annually	Probe	SWL and FPT	
GR-5	Annually	Probe	SWL and FPT	
GR-6	Annually	Probe	SWL and FPT	
GR-7	Annually	Probe	SWL and FPT	
GR-9	Quarterly	Probe	SWL and FPT	
GR-11	Annually	Probe	SWL and FPT	
GR-12	Annually	Probe	SWL and FPT	
GR-13	Annually	Probe	SWL and FPT	
GR-14	Annually	Probe	SWL and FPT	
GR-15	Annually	Probe	SWL and FPT	
GR-19	Annually	Probe	SWL and FPT	
GR-20	Annually	Probe	SWL and FPT	
GR-21	Annually	Probe	SWL and FPT	
GR-25	Annually	Probe	SWL and FPT	
GR-29	Annually	Probe	SWL and FPT	
GR-30	Annually	Probe	SWL and FPT	
GR-31	Annually	Probe	SWL and FPT	
GR-32	Annually	Probe	SWL and FPT	
GR-33	Annually	Probe	SWL and FPT	
GR-38	Annually	Probe	SWL and FPT	
GR-40B	Annually	Probe	SWL and FPT	
GR-41	Annually	Probe	SWL and FPT	

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

The above Target Restoration Values (TRV) shall be reached when the site is fully remediated. The permittee may apply in the future to change the TRV for Napthalene based on changes in regulations or further site investigation and assessment of human risk. No TRV for 2-Methylnapthalene has been set since there is little, if any, data on the affect of this chemical on humans or animals. The permittee may apply to discontinue specific parameters from the monitoring list after demonstrating that those parameters have met the above TRV for three consecutive monitoring events. In the event that future regulations are promulgated that would require lower TRV's on this site, the Water Quality Division may set such lower TRV's by letter under this same permit.

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

G. Requirements for Monitoring the Discharge

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

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

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

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

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

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

H. Test Procedures

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

I. Records and Reports

1. The permittee shall retain copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the report or application.

2. The permittee shall give notice to the administrator as soon as possible of any planned physical alterations or additions to the permitted facility.

3. The permittee shall give advance notice to the administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

4. Monitoring results shall be reported at intervals specified in Section C and/or Section G of this permit.

5. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

6. The permittee shall report any noncompliance which may endanger health or the environment, orally within 24 hours from the time the permittee becomes aware of the circumstances. The report should include:

   a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to a usable groundwater of the state.

   b. Any noncompliance with a permit condition or malfunction of the discharge (injection) system which may cause fluid migration into or between usable groundwaters of the state.

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

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

8. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the administrator, it shall promptly submit such facts or information.

9. The permittee shall retain all records concerning the nature and composition of injected fluids until 5 years after completion of any specified plugging and abandonment procedures. The administrator may require the owner/operator to deliver the records to the administrator at the conclusion of the retention period.

10. A subsurface discharge (injection) well may not commence subsurface discharge (injection) until, following public notice and an opportunity for hearing, a groundwater pollution control permit has been issued by the department for the proposed operation, and:

    a. Well construction is complete and the permittee has submitted notice of completion of construction to the administrator, and

b. The administrator has inspected or otherwise reviewed the subsurface discharge (injection) well and finds it in compliance with the conditions of the permit; or the permittee has not received notice from the administrator of intent to inspect or otherwise review the facility within 13 days of the notice of a. above, in which case prior inspection or review is waived, and

c. Well mechanical integrity testing has been proven or demonstrated to the satisfaction of the administrator.

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

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

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

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

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

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

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

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

J. Permit Actions

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

1. Violation of the permit;

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

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

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

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

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

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

K. Mechanical Integrity

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:

After the monitoring wells, injection galleries, and oil recovery sumps associated with this project have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with WQD.

M. Duties of the Permittee

It is a duty of the permittee to:

1. Comply with all permit conditions;

2. Halt or reduce activity -- it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the permit conditions;

3. Take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit;

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

N. Financial Responsibility

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

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

O. Special Measures the Director Finds Necessary:

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

Permit 89-291 covering the initial construction of one of the two oil recovery sumps covered by this permit is hereby canceled. All monitoring requirements covered in permit 89-291 have been incorporated into this permit.

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

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

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

P. Special Permit Conditions:

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

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

Q. Signatories Requirement

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

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

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

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

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

1. The authorization is made in writing by one of the described principals;

2. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility or activity; and

3. The written authorization is submitted to the administrator.

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

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

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

R. Noncompliance

Any permit noncompliance constitutes a violation of the permit.

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

S. Permit Transfer

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

T. Responsibilities

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

U. Property Rights

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

V. Severability

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

/jn

PERMIT TO CONSTRUCT

[X] New Permit No. 91-333R

[ ] Renewal

[ ] Modified

Evanston Valley Community Church
(Name of Facility)

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

Evanston Valley Community Church

P. O. Box 743

Evanston, WY 82931-0743

to install an extension of water and wastewater lines for church building according to the procedures and conditions of the application No. 91-333R. The facility is located in NW¼, SE¼, Sec 27, T15N, R120W in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

OCT 30 1991

Date of Issuance

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

BL/jyi

RF

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

November 25, 1991

G.P. McConnaughey, City Manager
City of Laramie
406 Ivinson
Laramie, Wyoming 82070

RE: City of Laramie, Wyoming; Federal Sewage Works Grant C560251-94; DEQ/WQD Ref. No. 91-334; Laramie Westside Collection Sewer Rehabilitation, Phase IIIA; Approval of Plans and Specifications

Dear Mr. McConnaughey:

The plans and specifications for the construction of Laramie Westside Collection Sewer Rehabilitation Project, Phase IIIA, have been reviewed by the State of Wyoming Department of Environmental Quality. This office hereby approves the plans and specifications and is enclosing a permit to construct. This permit does not supersede the requirements for obtaining any permit from local or state agencies.

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

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

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

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

1. Contracts may not be awarded until authorization has been given by the Department of Environmental Quality.

2. Prior DEQ approval is required for rejection of bids on any contract on this project.

3. Current wage rates must be in the specifications prior to bid opening.

4. Bidders must submit, with their bid, a signed statement as to whether they have previously performed work subject to the President's Executive Order Number 11246.

5. Contact EPA if any questions arise concerning MBE/WBE utilization on this project.

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

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/SS/jn

cc: Carl Heskett, EPA Region VIII
Daryl Jensen, Western Water Consultants, Laramie, WY
Grant File

PERMIT TO CONSTRUCT

PERMIT NO. 91-334
See Special Conditions

X New
Renewal
Modified

Laramie Westside Collection Sewer Rehabilitation, Phase IIIA

This permit hereby authorizes the applicant:

City of Laramie
406 Ivinson
Laramie, Wyoming 82070

to construct, install or modify a Westside Collection Sewer Rehabilitation Project facility according to the procedures and conditions of the application number 91-334. The facility is located in Sections 32, 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: 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

12/9/91
Date of Issuance

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

Special Conditions for Permit to Construct #91-334

1. This permit includes a waiver for the required ten foot minimum water and sewer parallel separation for Line 32 Sta 12+26 to 15+36, Line 34 Sta 1+89 to Sta 12+25, and Line 34 Sta 0+00 to Sta 1+88.

2. The permit includes a waiver for the sections of sewer with below minimum slope. These lower slopes are necessary to allow connection to existing services and interceptors but are still sufficient to handle the expected flows.

SS/jn

R7

PERMIT TO CONSTRUCT

PERMIT NO. 91-335
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

AMOCO HEAT EXCHANGER BUNDLE WASH AREA ADDITION

This permit hereby authorizes the applicant:

AMOCO OIL COMPANY
P. O. Box 160
Casper, WY 82602

to construct, install or modify an upgrade of the heat exchanger bundle wash area to include double containment according to the procedures and conditions of the application number 91-335. The facility is located in Section 8 T33N R79W in the county of Natrona, in the State of Wyoming. This permit shall be effective for a period of two years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

October 1, 1991
Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #91-335

1. The double containment must be monitored on a regular basis and appropriate actions taken if liquids are present.

2. Written operating proceedures must be available to the operating personnel. A log shall be maintained on site of the inspections. This log should record all inspections and any corrective actions taken.

LBH\jn

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

October 23, 1992

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

RE: Permit to Construct Application Number 91-336

Dear Mr. Barnhart:

In 1984, Wycon Chemical Company, now Coastal Chem, Inc. constructed an expansion to the Corlett Creek inteceptor trench without obtaining a permit to modify this system. The system itself was previously installed without obtaining the required permit to construct, and an as-built approval, number 80-528, was issued for the Corlett Creek inteceptor trench on February 25, 1981. The fact that this modification was made without the required permit was discovered by the department in 1990. Upon discovery, the department immediately required Coastal to submit the plans for approval. The modification to this system extended the cutoff trench to protect along Clear Creek and is called the Clear Creek interceptor trench.

The Department of Environmental Quality, Water Quality Division, has reviewed the above referenced application for a permit to construct a groundwater pollution control system. The department has determined that the Clear Creek Interceptor Trench located in Section 16, Township 13 North, Range 67 West meets this department's design standards.

Nothing in this letter constitutes an endorsement of the construction or the design of the facility described herein. This letter indicates only that standards of design and construction required by the Environmental Quality Act have been met. This facility is authorized for operation for the purpose of providing a physical barrier between the Coastal Chem, Inc. plant and Clear Creek to prevent the migration of known pollution in any concentration above groundwater standards on the plant site to location downgradient of this physical barrier. The state assumes no liability for and does not in any way guarantee the performance of the system allowed by this letter. The permittee understands that it is solely responsible to any third parties for any liability arising from the construction or operation of the facility described herein. By issuance of

October, 1992
CLEAN WATER MONTH

this letter, the state does not in any way waive its sovereign immunity. Since your system has already been constructed, a permit to construct cannot be issued. This letter is your record that the groundwater pollution control system as installed meets minimum state standards and specifications and has been authorized for operation by the Wyoming Department of Environmental Quality, Water Quality Division.

This approval is conditioned with the following items, which should be considered equal to permit conditions if a permit had been issued:

1. The Clear Creek Interceptor system shall remain in continuous operation for as long as groundwater sampling shows that contamination exists behind this barrier. Under this condition, this system shall be operated until all wells on the Coastal Chem site contain Ammonia as N at a concentration of less than .5 mg/l and Nitrate as N is less than 10 mg/l.

2. Coastal Chem shall notify this department immediately of the accidental shutdown of the system of more than 48 hours duration. Coastal shall not knowingly shut down the system for more than 24 hours without the concurrence of the department.

In the future, if you build a groundwater pollution control or monitoring system, you must receive a permit prior to construction to avoid enforcement action. W.S. 35-11-901(a) provides severe penalties for "Any person who violates, or any director, officer, or agent of a corporate permittee who willfully and knowingly authorizes, orders, or carries out the violation of any provision of this Act, or any rule, regulation, standard, or permit adopted hereunder...." By construction of this system without a permit to construct, Coastal Chem, Inc. violated W.S. 35-11-301(a)(i).

Sincerely,

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

WG/RL/bb/23975.ltr

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

October 29, 1991

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

RE: Permit to Construct Application Number 91-337

Dear Sirs:

The Department of Environmental Quality, Water Quality Division, has reviewed your application (#91-337) for a permit to construct a groundwater pollution control or containment system for Corlett Creek Bypass Pipeline at Section 16, Township 13 North, Range 67 West. The Water Quality Division has determined that the system meets the minimum design standards.

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

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

In the future if you are to build a groundwater pollution control or monitoring system, you must receive a permit to construct prior to construction to avoid enforcement action.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/jn

R7

PERMIT TO CONSTRUCT

PERMIT NO. 91-338
SEE SPECIAL CONDITIONS

X New
Renewal
Modified

RS-2 Oil Recovery System, Cheyenne Railyard

This permit hereby authorizes the applicant:

Union Pacific Railroad
Attn: Jeff McDermott, Manager of Environmental Site Remediation
1416 Dodge Street
Omaha, Nebraska 68179

to construct, install or modify an oil recovery system according to the procedures and conditions of the application number 91-338. The facility is located in Section 6 NE1/4, Township 13 North, Range 66 West in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of five years (5 years maximum) from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Department of Environmental Quality

OCT 30 1991

Date of Issuance

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

CONDITIONS TO PERMIT TO CONSTRUCT #91-338

1. Environmental Monitoring Program for Groundwaters of the State

A monitoring program is required to insure knowledge of migration and behavior of the free oil in the subsurface during remediation. The permittee is required to provide detailed information concerning the quality of the groundwater in the vicinity of this recovery well as follows:

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (TRV)*
DSFOW-1	Quarterly	EPA Method 610	Napthalene	.020
DSFOW-5	Quarterly	EPA Method 610	Napthalene	.020
DSFOW-6	Quarterly	EPA Method 610	Napthalene	.020
DSFOW-7	Quarterly	EPA Method 610	Napthalene	.020
DSFOW-8	Quarterly	EPA Method 610	Napthalene	.020
DSFOW-1	Quarterly	EPA Method 610	2-Methylnapthalene	
DSFOW-5	Quarterly	EPA Method 610	2-Methylnapthalene	
DSFOW-6	Quarterly	EPA Method 610	2-Methylnapthalene	
DSFOW-7	Quarterly	EPA Method 610	2-Methylnapthalene	
DSFOW-8	Quarterly	EPA Method 610	2-Methylnapthalene	
DSFOW-1	Quarterly	EPA Method 418.1	TPH	10
DSFOW-5	Quarterly	EPA Method 418.1	TPH	10
DSFOW-6	Quarterly	EPA Method 418.1	TPH	10
DSFOW-7	Quarterly	EPA Method 418.1	TPH	10
DSFOW-8	Quarterly	EPA Method 418.1	TPH	10

WELL NAME OR NUMBER	SAMPLING SCHEDULE	ANALYTICAL METHOD	PARAMETER ANALYZED	PERMIT LIMIT (TRV)*
OW-1	Monthly	Probe	SWL and FPT	
OW-13	Monthly	Probe	SWL and FPT	
OW-14	Monthly	Probe	SWL and FPT	
DSFOW-1	Monthly	Probe	SWL and FPT	
DSFOW-2	Monthly	Probe	SWL and FPT	
DSFOW-3	Monthly	Probe	SWL and FPT	
DSFOW-5	Monthly	Probe	FPL	
DSFOW-6	Monthly	Probe	SWL and FPT	
DSFOW-7	Monthly	Probe	FPL	
DSFOW-8	Monthly	Probe	SWL and FPT	

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

The above Target Restoration Values (TRV) shall be reached when the site is fully remediated. The permittee may apply in the future to change the TRV for Napthalene based on changes in regulations or further site investigation and assessment of human risk. No TRV for 2-Methylnapthalene has been set since there is little, if any, data on the affect of this chemical on humans or animals. The permittee may apply to discontinue specific parameters from the monitoring list after demonstrating that those parameters have met the above TRV for two consecutive monitoring events. In the event that future regulations are promulgated that would require lower TRV's on this site, the Water Quality Division may set such lower TRV's by letter under this same permit.

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

2. Requirements for Monitoring the Discharge

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

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

PARAMETER	APPROVED METHOD NUMBER	SCHEDULE
Napthalene	EPA Method 610	Quarterly
2-Methylnapthalene	EPA Method 610	Quarterly
TPH	EPA Method 4015	Monthly

3. Records and Reports

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

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

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

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

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

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

f. Static water contour maps for the immediate area of the pumped recovery trench showing the groundwater table for each month of the operation.

4. Special Conditions

The permittee shall submit an "Operating 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.

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

The permittee shall control the groundwater gradient around the points of withdrawal so that contamination does not migrate off site. 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.

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

RFL/nc
cc: Lawrence L. Earnshaw, USPCI Remedial Svcs Div,
5665 Flatiron Pkwy, Boulder, CO 80301
Jake Strohman
Louis Harmon

PERMIT TO CONSTRUCT

[X] New Permit No. 91-339R

[ ] Renewal

[ ] Modified

North Cody Heights Water
(Name of Facility)

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

Edwin Higbie

213 North 44th

Cody, WY 82414

to construct an 8" main extension according to the procedures and conditions of the application No. 91-339R. The facility is located in SE ¼ SW ¼ Sec. 33, T53N, R101W in the County of Park, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

12-5-91
Date of Issuance

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

LAND APPLICATION PERMIT

PERMIT NO.: 91-340
SEE SPECIAL CONDITIONS

Little Buffalo Basin Road Repair Application
(Name of Facility)

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

Apache Corporation

P.O. Box 127

Meeteetse, WY 82433

to land apply 700-900 barrels of produced water for prewetting for roadway repair. The application site is located in Sections 1, 2, 12, 13, T47N, R100W and Park County Secitons 4, 5, 6, T47N, R99W in the county of Hot Springs in the State of Wyoming. This permit shall be effective for a period of one (1) 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 standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division within 48 hours of the day application will commence and give an estimate of the duration 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 constitution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

October 22, 1991
Date of Issuance

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

CONDITIONS ON PERMIT

1. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Steve Gerber or Jeff Hermansky, 250 Lincoln St., Lander, WY 82520 phone number 332-3144, to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of discharges and must be informed how much produced water be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

2. Produced water applied to a road will be mechanically incorporated into the road bed. Produced water will not be applied during freezing weather.

3. Only the roads designated in this permit are authorized for application of the waste oil and sludge. Additional or alternate sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the Water Quality Division.

PERMIT TO CONSTRUCT
* CONDITIONED *

[X] New Permit No. 91-341R

[ ] Renewal

[ ] Modified

Afton Water Supply Well
(Name of Facility)

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

Town of Afton

P. O. Box 310

Afton, WY 83110

to construct a 12 inch diameter municipal water supply well according to the procedures and conditions of the application No. 91-341R. The facility is located in NW¼ SW¼, Sec. 30, T32N, R118W 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

October 14, 1991
Date of Issuance

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

* CONDITION *

1. The contractor that is awarded the bid for this work must apply for a NPDES permit to discharge drilling, testing, and disinfection water to the surface. This shall be done prior to commencement of work on site.

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 91-342
CONDITIONED

Yellowstone National Park Monitor Wells
(Name of Facility)

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

National Park Service

P.O. Box 168

Yellowstone National Park, WY 82190

to install groundwater monitor wells according to the procedures and conditions of the application No. 91-342. The facility is located in Yellowstone National Park in the Counties of Park and Teton, in the State of Wyoming. This permit shall be effective for a period of one (1) 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

October 22, 1991
Date of Issuance

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

SPG

Conditions for Monitoring Wells

1. The groundwater monitoring wells shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number <u>91-342</u>. Additional wells meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).

2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.

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

4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the division. The wells shall be clearly numbered.

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

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:

   a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;

   b. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level; Factory slotted casing is recommended for the perforated interval;

   c. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;

   d. To minimize the entrance of fine grained material into the well the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;

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

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

8. Within 90 days after beginning a subsurface investigation, a report on the subsurface investigation shall be submitted to the WQD. This report shall contain at a minimum:

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

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

c. Final location, construction details and logs of all monitoring wells;

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

e. Water level and product thickness measurements;

f. Sample collection procedures;

g. Sampling analytical results;

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

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

j. Interpretation of data and conclusions including recommended remedial measures.

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

10. All monitor wells associated with this facility shall be sampled and the wastewater analyzed one time for BETX (EPA Method 502.2 or 602), TPH (EPA Method 418.1) and Oil and Grease (EPA Method 413.1 or 413.2).

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

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

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

cc: Jake Strohman

PERMIT TO CONSTRUCT

[X] New

PERMIT NO. 91-343

[ ] Renewal

[ ] Modified

DOWELL SCHLUMBERGER
(Name of Facility)

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

Dowell Schlumberger
P.O. Box 437
Houston, TX 77210

to construct, install or modify monitoring well and testhole network facilities according to the procedures and conditions of the application No. 91-343. The facility is located Statewide, 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

12-10-91
Date of Issuance

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

CONDITIONS FOR MONITORING WELLS

1. The groundwater monitoring wells and test holes shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in permit to construct application number 91-343. Additional wells and test holes meeting the requirements of the application and this permit may be installed if prior approval is received from the Water Quality Division (WQD).

2. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells prevented by physical limitations to adherence to the requirements on minimum depths of seal below ground surface as detailed in Chapter XI, Part G. However a sufficient seal shall be installed according to normal engineering practice.

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

4. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells shall be reported immediately to the Division. The wells shall be clearly numbered.

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

6. In addition to the well construction information submitted with the permit application, the following items relating to well construction shall be implemented when the wells are constructed, installed and developed:

a. After the bentonite has been placed in the annular space, it shall be hydrated to ensure a proper seal;

b. The borehole diameter shall be at least four inches larger in diameter than the casing diameter;

c. The screened interval shall extend at least two or three feet above the highest expected seasonal groundwater level and at least five feet below the lowest expected groundwater level. Factory slotted casing is recommended for the perforated interval;

d. If PVC casing is used, only threaded PVC casing is acceptable. Under no circumstances are PVC glue or plastic welding solvents to be used to join casings;

e. To minimize the entrance of fine-grained material into the well, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval;

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

g. A protective casing and locking cap is strongly recommended;

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

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

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

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

8. Within 90 days of the installation or sampling of test holes and/or monitoring wells in association with this or previously issued Wyoming Department of Environmental Quality/Water Quality permits, a report shall be submitted to the appropriate Water Quality Division office. This report shall contain, as appropriate, the following:

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

b. A site map showing physical features, well and test hole locations and elevations;

c. Final location, construction details and logs of all monitoring wells and test holes;

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

e. Water level and product thickness measurements;

f. Sample collection procedures;

g. Sampling analytical results;

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

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

j. Interpretation of data and conclusions including recommended remedial measures;

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

10. All monitor wells associated with this or previous Water Quality Division permits shall be sampled and the wastewater analyzed for the parameters and frequency set by the appropriate WDEQ\Water Quality Division office. Reports associated with these activities shall be submitted on the date(s) specified by that office.

11. The results of any analyses conducted on soil or water removed from these wells or test holes shall be provided to the appropriate WDEQ/Water Quality Division office.

12. Results reported and reviews completed previously under permits 90-289, 89-348, 89-051, 89-052, and 89-053 will be accepted under the issuance of this permit.

13. Test holes shall be abandoned using clean cuttings as filler materials according to Chapter XI, Part G, Section 70.

EJL/pr

cc: Kevin Frederick, DEQ/WQD, Cheyenne
Steve Gerber, DEQ/WQD. Lander
Lou Harmon, DEQ/WQD, Cheyenne
Bill Locke, DEQ/WQD, Lander

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

October 26, 1992

Teton Homes/Community Alternatives of Casper
P.O. Box 2349
Mills, Wyoming 82644

RE: Landmark Industrial Park
Domestic Water System Improvements
Application Number 91-344

Dear Sir:

Based on your response to this department's letter of October 16, 1992, your entire submittal is being returned to you. It is our understanding that this project has been cancelled.

Construction of the facility as proposed in this application without a permit is a violation of the Environmental Quality Act, W.S. 35-11-301(a)(iii) and Chapter III Section 4(a) of the Wyoming Water Quality Rules and Regulations.

Sincerely,

William L. Garland
Administrator
Water Quality Division

WLG/RL/nc 23954.LTR

October, 1992
CLEAN WATER MONTH

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Bob L.
OCT 22 1992
WATER QUALITY DIVISION
WYOMING

WYOMING

Department of Environmental Quality

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

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

October 19, 1992

Teton Homes/Community Alternatives of Casper
P.O. Box 2349
Mills, Wyoming 82644

Dear Sir:

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

Facility Name:	Landmark Industrial Park Domestic Water System Improvements
DEQ/WQD Reference Number:	91-344
Engineering Consultant:	Barry Venn, Civil Engineering Professionals
DEQ/WQD Reviewing Engineer:	Robert F. Lucht, P.E.
Date of DEQ/WQD Review:	March 10, 1992

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

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

✓ The application will not be resubmitted as the proposed project has been cancelled.

_____ The application will be resubmitted within 30 days.

_____ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

_____ Other remarks _____

Marion B Johnson 10/21/92
DIRECTOR OF ENGINEERING TETON HOMES

October, 1992
CLEAN WATER MONTH

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

Sincerely,

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

RL/jn - 23844.ltr

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

October 19, 1992

Teton Homes/Community Alternatives of Casper
P.O. Box 2349
Mills, Wyoming 82644

Dear Sir:

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

Facility Name:	Landmark Industrial Park Domestic Water System Improvements
DEQ/WQD Reference Number:	91-344
Engineering Consultant:	Barry Venn, Civil Engineering Professionals
DEQ/WQD Reviewing Engineer:	Robert F. Lucht, P.E.
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Please indicate below the status of your application and return this form to our office:

_____ The application will not be resubmitted as the proposed project has been cancelled.

_____ The application will be resubmitted within 30 days.

_____ The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.

_____ Other remarks _____

_____

October, 1992
CLEAN WATER MONTH

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

Sincerely,

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

RL/jn - 23844.ltr

LAND APPLICATION PERMIT

PERMIT NO.: 91-345R
SEE SPECIAL CONDITIONS

Amoco - Elk Basin Field
(Name of Facility)

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

Amoco Production Company

P.O. Box 569

Powell, WY 82435

to land apply waste crude oil sludge. The application site is located in Sec. 24, T58N, R100W in the county of Park in the State of Wyoming. This permit shall be effective for a period of one (1) 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 standards. The authority to land apply granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or ensures that the disposal method will meet applicable state requirements.

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

11-12-91
Date of Issuance

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

CONDITIONS

1. Waste oil and sludge shall be applied by a method and at a rate which will prevent runoff of oil anytime or ponding after incorporation into the road. Applications shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.

2. The slope of the roads application shall not exceed 8 percent.

3. Waste oil and sludge application shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainage, irrigation canals, lakes and reservoirs.

4. The permittee will contact the Department of Environmental Quality, Water Quality Division District Engineer, Steve Gerber, phone number 332-3144, to arrange a field inspection prior to initiation of work. The district engineer should be notified at least 48 hours in advance of application and must be informed how much waste oil and sludge will be applied (number of truckloads), the specific site of application (to the nearest 1/4 section) and time of application.

5. Waste oil and sludges applied to a road will be mechanically incorporated into the road bed. Wastes will not be applied during the period from November 15 to April 30.

6. Only the roads designated in this permit are authorized for application of the waste oil and sludge. Additional or alternate sections of road meeting the requirements of the application and this permit may be utilized if a written description and maps are received and approved by the Water Quality Division.

PERMIT TO CONSTRUCT

[X] New Permit No. 91-346R

[ ] Renewal

[ ] Modified

Jourdan Office Building
(Name of Facility)

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

Elfriede Jourdan

P. O. Box 1252

Jackson, WY 83001

to construct a 4" diameter sprinkler system water supply pipeline and double check valve facility according to the procedures and conditions of the application No. 91-346R. The facility is located in NW¼ Sec. 34, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

11-20-91
Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

[X] New

[] Renewal

[] Modified

Permit No. 91-347R
CONDITIONED

Moose Enterprise Water and Sewer
(Name of Facility)

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

Moose Enterprise

P.O. Box 331

Moose, WY 83012

to install a new sewer system, septic tanks, lift station, and leachfield, and new well and water distribution system according to the procedures and conditions of the application No. 91-347R. The facility is located in Sec. 25, T43N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized

representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 250 Lincoln, Lander, WY 82520; telephone, 332-3144.

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

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

AUTHORIZED BY:

Administrator
Water Quality Division

Director
Dept. of Environmental Quality

12-10-91
Date of Issuance

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

CONDITIONS OF PERMIT

1. The existing well shall shall have the same piping arrangement as the new well, such as: flow meter, pressure guage, check valve, etc.

2. The disposal field and septic tank must be inspected by the Teton County Sanitarian, Dick Worl, prior to backfilling. Provide a minimum of 48 hours notification prior to the inspection. Contact Dick at 733-3959.

cc: Dick Worl, R.S.
Teton County
P.O. Box 1727
Jackson, WY 83001

THE STATE OF WYOMING

MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

January 31, 1994

Coastal Mart IWC.
303 Keo Box 10006
DesMoines, Iowa 50306

RE: Permit To Construct Application

Gentlemen:

Our records indicate an application for a permit to construct was submitted to this office. Our records however show that no action was taken by this office and that additional information has not been resubmitted to this office for review and authorization. The specific information for your proposed project are:

Facility Name:	Coastal Mart IWC #1358
DEQ/WQD Reference Number:	91-348
Engineering Consultant:	None
Date Received DEQ/WQD :	September 27, 1991

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

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.

This project has <u>not</u> been permitted. Construction of this facility without a permit is a violation of the Environmental Quality Act and is 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 information. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Wyoming Water Quality Rules and Regulations must, be followed.

Sincerely,

Gary L. Steele
Southeast District Engineer
Water Quality Division

GLS/nc 40447.LTR
cc: IPS

PERMIT TO CONSTRUCT

[X] New Permit No. 91-349

[ ] Renewal

[ ] Modified

Collingwood Small Wastewater Treatment Facility
(Name of Facility)

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

Elvin & Mary Collingwood

Shell Rt.

Shell, WY 82441

to construct a septic tank/leach field facility according to the procedures and conditions of the application No. 91-349. The facility is located in NW¼ SW¼ Sec 19, T53N, R90W 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

October 18, 1991
Date of Issuance

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

JH/jyi

PERMIT TO CONSTRUCT

[X] New

[ ] Renewal

[ ] Modified

Permit No. 91-350R

Red Fox Subdivision Water Connection
(Name of Facility)

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

Red Fox Homeowners Association

P.O. Box 391

Lander, WY 82520

to construct a 330 foot extension, meter vault, and connection to the city of Lander water system according to the procedures and conditions of the application No. 91-350R. The facility is located in Section 12, T33N, R100W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

10-31-91
Date of Issuance

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

JH/anc