



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

March 24, 1994

Bill Almas
Energy Fuels Nuclear, Inc.
1200 17th Street, Suite 2500
Denver, Colorado 80202

RE: Energy Fuels Nuclear, Land Application System
Reference Number: 94-026
Campbell County, Wyoming

Dear Mr. Almas:

This office has reviewed your permit application to land apply waste fluids produced during in-situ mining at the Reno Creek Project. The Land Quality Division has recommended that the application for this permit be denied. This denial would be based on the following:

1. The irrigation plan does not properly address the protection of the topsoil resource.
2. The plan would not address the protection of animal health and safety by exposing livestock and wildlife to a selenium hazard.
3. The plan would carry considerable risk of creating pollution of surface and groundwater pollution.
4. The plan clearly does not allow return of the affected lands to an equal or better use.

The Land Quality Division has stated that the granting of this permit would violate Article 4 of the Environmental Quality Act, which makes several statements as to the requirements for mining operations such as the one of which this irrigation project will be an integral part:

W. S. § 35-11-406(b)(viii) requires the preservation of topsoil free of acid or toxic materials, while W.S. § 35-11-406(b)(ix) requires:

"(A) plan to insure that all acid forming, or toxic materials, or materials forming a fire, health or safety hazard uncovered during or created by the mining process are promptly treated or disposed of during the mining process in a manner designed to prevent pollution of surface or subsurface water or threats to human or animal health and safety. Such method may include, but not be limited to covering, burying, impounding or otherwise containing or disposing of the acid, toxic, radioactive or otherwise dangerous material;"

Chapter III, Section 12(a) Water Quality Rules and Regulations states that permits may be denied because:

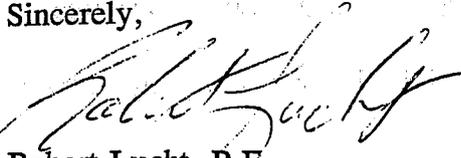
"(ii) The project, if constructed, will cause violation of applicable state surface or groundwater standards;"

and

"(vi) Other justifiable reasons necessary to carry out the provisions of the Environmental Quality Act."

The Water Quality Division has not yet determined that this project meets these two provisions. Before denying this application, this department would like to give your company the opportunity to submit additional information. Attached please find copies of a review done by Glenn Mooney of the Land Quality Division and one done by me. Please respond to all of these comments.

Sincerely,



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

RL/nc 41407.LTR

xc: Glenn Mooney, LQD Sheridan
Robert Lucht, WQD
William L. Garland, Administrator, Water Quality Division
Roger Shaffer, Administrator, Land Quality Division

MEMORANDUM

TO: Bob Lucht, Water Quality Division
FROM: Glenn Mooney, Senior Geologist
DATE: March 21, 1994
SUBJECT: Review of Water Quality Division Land Application Permit Application

Energy Fuels Nuclear Inc.'s (Energy Fuels) application for a Land Application Permit was submitted to the Water Quality Division under cover of William Almas' letter dated January 28, 1994. The Land Application Permit is being sought to dispose of waste water generated during Energy Fuels' Reno Creek in situ uranium mining operation.

An application for a major amendment to Energy Fuels Reno Creek Mining Permit No. 479 was received by the Department on November 21, 1993, and is currently under review under TFN 2 3/309.

1. Section 1.0, Introduction

There is nothing in this section or elsewhere in the application that suggests Energy Fuels has secured the consent of the surface owner to conduct these disposal operations upon their property.

Energy Fuels must demonstrate that they have secured the informed consent of the surface owners of the site to operate the land application project.

2. Section 2.4, Waste Stream Description

Energy Fuels' description of the "worst case" for selenium concentration of no more than 0.085 mg/l in the waste stream is unjustified.

There was no sampling of selenium concentrations during Rocky Mountain Energy's Reno Creek isl test. Selenium levels were sampled only during baseline sampling and after restoration.

However, at Uranerz, USA's Ruth isl test project conducted in 1983-84 at the Ruth site some 22 miles west of the Reno Creek site, much higher selenium levels were measured. The Ruth site is located in similar geology and also used a sodium bicarbonate lixiviant system.

Selenium levels of 4.4 mg/l were measured in the Ruth wellfield recovery stream at the end of the leaching phase (Attachment No. 1). This selenium concentration is

almost 52 times that predicted by Energy Fuels.

Energy Fuels predicts that over the life of the operation, approximately 23 acre-feet of water will be applied to each acre of the irrigation area. They state that given the "worst-case" concentration of 0.085 mg/l of selenium, this would result in the addition of 5.28 lbs of selenium to each area of the irrigation plot.

If the selenium concentration during mining is equivalent to that measured at the Ruth site, the irrigation would result in the addition of 273.5 pounds of selenium to each acre.

While this amount of selenium may not seem large, measured on a milligram per kilogram of topsoil basis, it likely will still cause problems. Bioaccumulation in plants will very probably make the grasses and other vegetation grown on the irrigation tracts toxic to livestock and wildlife.

This situation has already occurred at the Power Resources Inc. (PRI) irrigation site north of Glenrock.

Arsenic is another toxic element that was seen in elevated concentrations in the Ruth recovery stream (Attachment No. 1). There is no data on the likelihood of this element occurring in significant concentrations in the Reno Creek disposal stream.

Energy Fuels must recalculate the amounts of selenium, arsenic, and other heavy metals that would be deposited on the soils of the irrigation plot using more realistic assumptions on their abundance in the waste stream.

3. Section 4.0, Meteorology

Energy Fuels bases their water balance calculations on a pan evaporation rate of 62.9 inches per year based on the evaporation rate seen at the PRI site some 60 miles to the south. On the other hand, Uranerz used a pan evaporation rate of 43 inches per year for their Ruth ISL project, located 22 miles to the west. The Ruth rate was based on the evaporation rate seen at Gillette, about 42 miles to the north of the Reno Creek site.

Energy Fuels must reassesse the potential evaporation rate for the Reno Creek site, based on data obtained onsite or from nearby operations.

4. Section 6.0, Irrigation Management Practices

On page 26 of this section it states that the Sodium Adsorption Ratio (SAR) in the

soils of the irrigation site may reach critical levels after approximately four years if sodium bicarbonate is used in the leaching process. The text goes on to state that root zone SAR may be allowed to increase to a point where restoration by (soil) amendment and tillage may be necessary.

On page 27, the text states that if the soils in the first irrigation circle cannot continue to receive salt buildup, presumably without major and permanent damage, a second 92.87 acre irrigation circle could be begun immediately north of the first.

Energy Fuels clearly feels there is a good chance that major and lasting damage will occur to the soils of the irrigation circle. They state that some of this damage may be remediated by soil amendments and tillage.

Energy Fuels does not offer any detailed plans for such remediation practices or proof that they would work under the soil and climate conditions present at this site.

It seems there is a good chance that the irrigation practices proposed by Energy Fuels will result in serious permanent damage to the topsoil resources of the irrigation site.

Energy Fuels must reassess the potential for permanent damage to the topsoil resource and provide additional data on remediation of possible damage.

5. Section 8.2, Surface Water and Sediment Monitoring

Energy Fuels proposes to monitor for possible off-site surface water pollution.

Given that many of the salts are expected to build up in the top few inches of topsoil, it seems probable that a thunderstorm or snow-melt event could result in surface water leaving the site and mine permit area carrying large amounts of dissolved salts onto adjacent properties.

Energy Fuels does not suggest any methods for prevention of this possibility.

The one surface water quality-sediment quality monitoring station proposed (SW-4) is located some 3500 feet from the irrigation circle and approximately 3000 feet outside the permit area.

Location of the station this distance from the irrigation circle would require that a considerable amount of land would have to be affected outside the circle and outside the permit area before any effects would be noted at the monitoring station.

Energy Fuels must relocate the surface water monitoring station closer to the

downstream edge of the irrigation site.

6. Conclusions

Article 4 of the Environmental Quality Act makes several statements as to the requirements for mining operations such as the one of which this irrigation project will be an integral part.

W. S. § 35-11-406(b)(viii) requires the preservation of topsoil free of acid or toxic materials, while W.S. § 35-11-406(b)(ix) requires

"(A) plan to insure that all acid forming, or toxic materials, or materials forming a fire, health or safety hazard uncovered during or created by the mining process are promptly treated or disposed of during the mining process in a manner designed to prevent pollution of surface or subsurface water or threats to human or animal health and safety. Such method may include, but not be limited to covering, burying, impounding or otherwise containing or disposing of the acid, toxic, radioactive or otherwise dangerous material;"

I conclude that approval of this application would violate four principles integral to Land Quality Division statutes, Rules and Regulations and performance standards.

They are as follows:

1. The irrigation plan does not properly address the protection of the topsoil resource.
2. The plan would not address the protection of animal health and safety by exposing livestock and wildlife to a selenium hazard.
3. The plan would carry considerable risk of creating pollution of surface and groundwater pollution.
4. The plan clearly does not allow return of the affected lands to an equal or better use.

For these reasons I request that the Water Quality Division deny the Land Application Permit.

If the Land Application Permit is approved by the Water Quality Division and becomes a part of the mining permit application, this presents another problem. If the problems listed above cannot be resolved to my satisfaction, I cannot recommend

Energy Fuels Memo
March 21, 1994
Page 5

approval of the mining permit application to the Land Quality Administrator if it includes disposal of the waste water using land application.

\gm

Attachment

cc: R. Chancellor
S. Ingle

479larv1.gm

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

Herschler Bldg., 4 West
Cheyenne, Wyoming 82002

PROJECT: Energy Fuels Nuclear, Reno Creek ISL Project Land Application System

ENGINEER: George L. Hoffman, Hydro-Engineering, 4685 S. Magnolia, Casper,
Wyoming 82604

APPLICANT: Energy Fuels Nuclear, Inc., 1200 17th Street, Suite 2500, Denver,
Colorado 80202

WATER QUALITY DIVISION REFERENCE NUMBER: 94-026

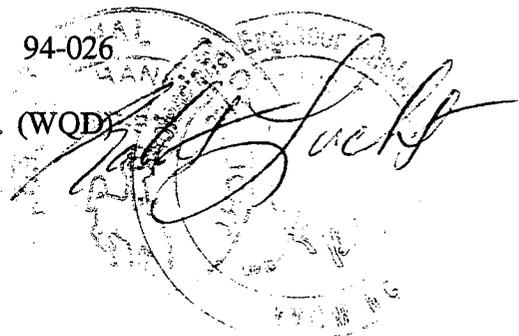
REVIEWING ENGINEER: ROBERT F. LUCHT, P.E. (WQD)

DATE OF REVIEW: March 29, 1994

ACTION: NOT AUTHORIZED FOR CONSTRUCTION.

COMMENTS:

1. The company has done little to describe the quality of the water to be placed on the irrigated land and probably cannot support its assumption that the wastewater will contain only 0.085 mg/l for selenium at worst case. At the end of mining Ruth contained over 4 mg/l, and Irigaray had over 3 mg/l. Please provide a calculation of the concentration, in mg/kg, of the selenium in the soil at the end of each year for the assumptions: that the waste contains .085 mg/l of selenium; that the waste contains 3.51 mg/l of selenium (the average of two values at the Ruth site); and that the waste contains 4.4 mg/l of selenium (the highest value at the Ruth site). These calculations should be based on the assumption that all of the selenium is tied up in the rooting zone. In addition, please calculate the same values based on your assumptions for flushing of the selenium through the topsoil and tying that selenium up in deeper layers. In making these calculations, please describe any assumptions made concerning the flushing of this element through the topsoil.
2. If this permit is issued at all, and it seems doubtful based on the Land Quality Division's opposition, then some form of performance based standard must be developed. The above calculations will help to set up some sort of a performance standard. When the project is in operation, the selenium concentrations in the waste stream will have to be monitored and new projections made, based on actual data. Please provide a sampling and analyses plan for the waste within the first year of operation to help in setting



performance based standards. Analyses should include not only selenium but the entire list found in Table 16.2 of the Land Quality Amendment Application.

3. Please propose performance based standards for the time when the irrigator would have to be moved to a new location. These standards should be proposed for all parameters listed in table 16.2 of the Land Quality Amendment Application for concentrations in the soil. The results of your initial modeling of root zone concentrations show that SAR will exceed the standards for SAR for continuous and unrestricted irrigation found in Chapter XI, Section 55(c)(i) in the 9th year of operation. Specifically, at what point will Energy Fuels commit to moving this system to a new area?
4. In reviewing the modeling provided in the application, it was unclear how the model applies the dissolved constituents. On table C-1 of Attachment C, it is stated that there are 43 water applications and only one chemical application. Does this mean that the model assumes all of the dissolved constituents were applied in the first application of water and then subsequent applications were pure water? Please explain.
5. On page 37 of the application, Energy Fuels has committed to installing one additional monitor well downgradient from the land application system and completed in the Upper Sand. Is this well the one labeled LA-1 on Plate 8.1? Will Energy Fuels commit to restoring the quality of water in this well if this well exceeds its class of use? What levels of contaminants in this well is Energy Fuels proposing to use to indicate that corrective measures are needed?
6. On page 37 of the application, Energy Fuels has committed to installing two monitor wells in the first sandstone unit underlying the land application system. What performance standards is Energy Fuels proposing to use for the groundwater quality in these wells, if and when water appears in them?
7. On page 37 of the application, Energy Fuels has committed to monitoring two stations downstream from this land application system. Neither of these sites are on the Land Quality Permit to mine area. Any impact to either of these two sites would therefore be a violation of the Land Quality Division permit to mine. Energy Fuels should propose some form of monitoring to insure that any runoff leaving the permitted area is measured and analyzed. What performance standards is Energy Fuels proposing to use for the water quality at these sampling points, if and when water appears in them?



THE STATE OF WYOMING



JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

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|--------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|

March 13, 1996

Mayor Vern Tanner
P.O. Box 667
Guernsey, WY 82214

94-027

Re: Updated Groundwater Sampling Report for the Town of Guernsey Wastewater Treatment Plant

Dear Mayor Tanner:

The Water Quality Division (WQD) has reviewed the referenced Groundwater Sampling Report. Comments and requirements are summarized on the enclosed Groundwater Pollution Control (GPC) Program review form. Please provide copies of this correspondence to your Water & Sewer Operators, Charlie King and Randy Olson and to Pam Gregory.

Please contact me directly should you have any questions.

Sincerely,

Phillip Stump
Phillip Stump
Senior Environmental Analyst
Water Quality Division

PBS/bb/61178.ltr

enclosures: Groundwater Pollution Control Program Review Form

cc: Kevin Frederick, Supervisor, GPC Program
Stan Barnard, AML Administrator
Gary Gerhard, Project Manager, Baker & Associates
David Parker, Adjutant Generals Office, Attn: C. & F.M.D., 5500 Bishop Blvd., Cheyenne, WY 82009-3320
Gary Steele, SE District Engineer Supervisor
Mark Escobedo, SRF Program
IPS Section, Cheyenne

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 Investigation
Wastewater Treatment Plant

APPLICANT: Town of Guernsey
P.O. Box 667
Guernsey, WY 82214
(307) 836-2335

CONSULTANT/
ENGINEER: Gary Gerhard
Baker & Associates
P.O. Drawer E.
Torrington, WY 82240
(307) 532-5211

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 94-027

EXISTING NEW AS BUILT

TITLE: Updated Groundwater Sampling for the Town of Guernsey
Platte County, Wyoming

PLANS SPECS PROPOSAL REPORT

DATE ON PROPOSAL/PLANS/REPORT: January 23, 1996

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING PERSONNEL: Phillip Stump

DATE OF THIS REVIEW: March 13, 1996

ACTION: Requests/Requirements/Recommendations for Future Groundwater Sampling & Monitoring

I. SUMMARY OF EXISTING CONTAMINATION:

The sampling report included quarterly static water level measurements taken between May 15, 1995, and December 18, 1995. The static water level measurements were taken at the following locations: 5 specified river locations, 2 aeration ponds, 1 settling pond, and 6 groundwater monitoring wells, and 6 piezometers. Since previous groundwater static water level measurements have provided adequate piezometric surface information, the frequency of the water level measurement can be reduced to coincide with the quarterly sampling events. WDEQ is concerned because the Town has not taken samples during previous water level measurement events.

II. REQUEST/REQUIREMENTS/RECOMMENDATIONS:

1. The Town of Guernsey is planning to perform modifications on the present wastewater treatment system to provide for adequate groundwater and surface water protection and the proper treatment of wastewater. The WDEQ/Abandoned Mine Lands Program (AML) is assisting in the funding and selection of professional services under AML Project 26. The selected professional consultant will prepare a pre-design report that will evaluate potential modification alternatives. All the interested and affected parties will need to be able to provide comments and recommendations in regards to the proposed modifications to the present system. Cooperation between the Town of Guernsey, the Wyoming National Guard Base, WDEQ, and the engineering consulting parties is required in the selection of the appropriate modification.

2. In a conversation with Randy Olson on March 12, 1995, Randy said that the river is not flowing and that stagnant water is present in pools. Because sampling in these pools would not yield representative samples of the surface water, WDEQ does not require sampling in the river at this time. The monitoring wells (92-1, 92-2, 92-3, 94-4, 94-5, 95-9) and (3) wastewater ponds shall continue to be sampled quarterly and the samples shall be analyzed for the following listed parameters:

TDS, nitrate (as N), and ammonia (as N);

and **static water level measurements** shall be taken **quarterly** at the groundwater monitoring wells, wastewater ponds and specified river locations (River Level No. 1, 2, 3, 4).

A summary report which includes graphical representations of the sampling results (i.e., quarterly piezometric surfaces and contaminant iso-concentrations) shall be submitted prior to August 1, 1996 following the summer sampling event.

THE STATE



OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

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|--------------------------------------------------|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------|

May 9, 1994

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

RE: Groundwater Investigation Report
WQD Reference No: **Permit No. 94-027**
Wastewater Treatment Facility
Guernsey, WY

Dear Mayor Offe:

The Water Quality Division (WQD) has reviewed the referenced report. Comments and requirements are summarized on the enclosed Groundwater Pollution Control (GPC) Program review form.

Please contact me directly should you have any questions.

Sincerely,

Phillip Stump
Phillip Stump
GPC Program Engineer
Water Quality Division

PS/nc 42009.LTR

Enclosure: GPC Program Review Form

xc: 1994 Southeast District Review Forms

Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne

Gary Gerhard, Project Manager, Baker & Associates

ps: WWTP\GUER-R1.RV1

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 Investigation Report

APPLICANT: Town of Guernsey
P.O. Box 667
Guernsey, WY 82214
(307)836-2335

**CONSULTANT/
ENGINEER:** Gary Gerhard
Baker & Associates
P.O. Drawer E.
Torrington, WY 82240
(307) 532-5211

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 94-027

EXISTING **NEW** **AS BUILT**

TITLE: MEMORANDUM: Wastewater Treatment Facility - Groundwater Investigation

PLANS **SPECS** **PROPOSAL** **REPORT**

DATE ON PROPOSAL/PLANS/REPORT: April 24, 1994

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? **NO** **YES** Permit No. 94-027

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

REVIEWING ENGINEER: Phillip Stump
Phillip Stump

DATE OF THIS REVIEW: May 10, 1994

Review of Groundwater Investigation Report

Guernsey Wastewater Treatment Facility

May 10, 1994

Page 2

A. SUMMARY OF EXISTING CONTAMINATION:

The wastewater in the facultative, nondischarging lagoons rapidly infiltrates into the groundwater. The groundwater contamination (i.e., ammonia and/or nitrate) caused by the lagoons has not been completely defined. The groundwater samples taken on April 14, 1994 did not contain ammonia-nitrogen concentrations that exceeded Class I Groundwater Standards with the exception of monitoring well (92-2). Nitrate-nitrogen concentrations measured in many of the monitoring wells on April 14, 1994 are high enough to be of concern. At this time the source(s) of the nitrate-nitrogen contamination have not been identified. The groundwater flowing southeast of the lagoons appears to be recharging the river. A very flat groundwater gradient occurs under the lagoons and to the northwest.

B. REQUEST/REQUIREMENTS/RECOMMENDATIONS

1. The previously installed piezometers will enable measuring changes in the groundwater gradient caused by the rising river stage level in the coming summer months. Please continue to measure static water at each sampling location and at the specified river locations.
2. WDEQ/WQD authorizes the installation of the three new conventional 'PVC type' monitoring wells at the locations discussed during WDEQ/WQD's site visit on April 29, 1994. WDEQ/WQD authorizes the construction of the monitoring wells under **Permit No. 94-027**. The additional monitoring wells shall be installed in accordance with the conditions and the plans and specifications of **Permit to Construct No. 94-027**.
3. The installation of the new monitoring wells will facilitate attaining representative samples of groundwater quality at upgradient and downgradient locations.
4. Within sixty days of completion of construction of the monitoring wells, the applicant shall submit to WDEQ/WQD, Cheyenne:
 - a. lithology logs of boreholes;
 - b. 'As-Constructed' well completion cross-sections illustrating and identifying the annular seal, depth of screened interval, total depth of well, etc; and
 - c. a site map illustrating and identifying the final locations of all groundwater monitoring wells.
5. The applicant is responsible for obtaining the Permits required by the State Engineer's Office (777-7354).

Review of Groundwater Investigation Report
Guernsey Wastewater Treatment Facility
May 10, 1994
Page 3

6. The monitoring wells (94-1, 92-2, replacement of 94-5, 94-9 and 94-10) shall be sampled and the groundwater analyzed **quarterly** for the following listed parameters:

TDS, nitrate as N, and ammonia as N;

and **static water level measurements** shall be taken **monthly** at all the groundwater monitoring wells, piezometers, and specified river locations.

- a. WQD may substitute a shorter list for the above parameters, depending on the results of subsequent monitoring event.
- b. 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.

As discussed in WDEQ/WQD's site visit on April 29, 1994, a summary report of this groundwater investigation shall be submitted after the quarterly sampling event in October. This report shall include potentiometric surface maps illustrating the direction and gradient of groundwater flow during the monthly monitoring events, and a site map delineating the extent of subsurface contamination and identifying dissolved groundwater contamination concentrations.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-027
SPECIAL CONDITIONS

Wastewater Treatment Facility

This permit hereby authorizes the applicant:

Town of Guernsey
P.O. Box 667
Guernsey, WY 82214

to construct, install or modify groundwater piezometer network according to the procedures and conditions of the application number 94-027. The facility is located in Section 2, T26N, R66W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of five (5) years from the date of issuance of this permit.

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

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

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

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

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

Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

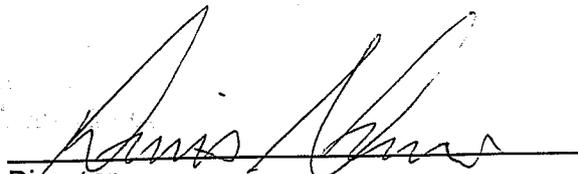
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

2-17-94

Date of Issuance

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

SPECIAL CONDITIONS

1. of 16 During the first sampling event samples shall be taken from the locations indicated in the application materials (Task No. 2). Water level measurements shall be taken at each sampling location and at the specified river locations.
2. of 16 If future groundwater quality sampling is deemed necessary at downgradient locations, the installation of downgradient groundwater monitoring wells will be required to attain representative groundwater samples.
3. of 16 A Sampling and Analysis Plan (SAP) shall be submitted with the summary groundwater report. The SAP shall address QA/QC of the groundwater sampling procedures.
4. of 16 In accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations, the applicant will provide immediate oral and/or written notice to WDEQ/WQD, Cheyenne, (307) 777-7781 of any changes or modifications which are not consistent with the terms and conditions of this permit.
5. of 16 Within sixty days of completion of construction of the monitoring wells/piezometers, the applicant shall submit to WDEQ/WQD, Cheyenne:

PERMIT NO. 94-027

- a. The summary report that contains the items in *Conditions 18.a.j*; and
 - b. If any modifications or changes are done during construction of monitoring wells/ piezometers (i.e., installation at different locations than specified on the map, etc.), 'as-constructed' drawings and/or specifications shall be submitted.
6. of 16 The groundwater monitoring piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number **94-027**. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
7. of 16 All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
8. of 16 Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells/piezometers 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.
9. of 16 After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.
10. of 16 Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the Division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
11. of 16 The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).
12. of 16 In addition to the well/piezometer construction information submitted with the permit application, the following items relating to well/piezometer construction shall be implemented when the wells/piezometers are constructed, installed and developed:
- a. Annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;

- b. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal;
 - c. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well/piezometer;
 - d. A top and bottom cap of the same material as the well/piezometer casing shall be installed to prevent sediment and surface water from entering the well/piezometer; and
 - e. The monitoring well/piezometer shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.
13. of 16 DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
14. of 16 Within sixty (60) days of the installation of the monitoring wells/piezometers, 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, monitoring well/piezometer/borehole locations, and mean sea level elevations of the top of casing/measuring point;
 - c. Final location, construction details and lithologic logs of monitor wells/piezometers/boreholes;
 - d. Static water levels;
 - e. Sample collection procedures;
 - f. Sampling analytical results;
 - g. A map delineating the extent of the subsurface contamination (i.e., nitrate as nitrogen and ammonia as nitrogen);
 - h. A potentiometric surface map showing the direction and gradient of groundwater flow; and
 - i. Interpretation of the data and conclusions of the investigation, including additional recommended investigation and remedial measures, and a schedule for implementation of these measures.

15. of 16 Proper monitoring well/piezometer evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well/piezometer dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.
16. of 16 All monitor wells and piezometers associated with this facility shall be sampled and the groundwater analyzed **quarterly** for the following listed parameters:

TDS, nitrate as N, and ammonia as N;

and **static water level measurements** shall be taken **monthly** at each groundwater monitoring well, piezometer, and specified river location for a period of **one (1) year** following the issuance of this permit.

- a. After the second monitoring event, the WQD may substitute a shorter list for the above parameters, depending on the results of the second monitoring event.
- b. 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 is due **April 30, 1994.**



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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February 17, 1994

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

RE: Permit to Construct #94-027
Groundwater Piezometers
Wastewater Treatment Facility
Guernsey, WY

Dear Mayor Offe:

The Water Quality Division (WQD) has reviewed the referenced Permit to Construct application materials. The enclosed Permit to Construct authorizes the City of Guernsey to install a network of groundwater piezometers. Additional comments and requirements are summarized on the enclosed Groundwater Pollution Control (GPC) Program review form.

Please contact me directly should you have any questions.

Sincerely,

Phillip Stump
Phillip Stump
GPC Program Engineer
Water Quality Division

PS/nc 40788.LTR

Enclosures: Groundwater Pollution Control Program Review Form
Permit to Construct

xc: 1994 Southeast District Review Forms
Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
Gary Gerhard, Project Manager, Baker & Associates
IPS Section, Cheyenne

ps: corres\GUER-WWT.RV1

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 Piezometer Network

APPLICANT: Town of Guernsey
P.O. Box 667
Guernsey, WY 82214
(307)836-2335

CONSULTANT/
ENGINEER: John T. Baker
Baker & Associates
P.O. Drawer E.
Torrington, WY 82240
(307) 532-5211

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 94-027

EXISTING NEW AS BUILT

TITLE: GROUNDWATER MONITORING PLAN, Guernsey, WY, Wastewater Treatment Facility

PLANS SPECS PROPOSAL REPORT

DATE ON PROPOSAL/PLANS/REPORT: January 25, 1994

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING ENGINEER: Phillip Stump
Phillip Stump

DATE OF THIS REVIEW: February 17, 1994

ACTION: AUTHORIZED

A. SUMMARY OF EXISTING CONTAMINATION:

The groundwater impacts (i.e., ammonia and nitrate) from the facultative nonaeration, nondischarging lagoon system have not been completely defined.

B. CONCLUSIONS OF ADEQUACY OF WORK COMPLETED TO DATE:

Due to mounding from the wastewater lagoons, it is impossible to determine the groundwater flow direction from the present groundwater monitoring wells (92-1, 92-2, and 92-3).

From the well survey, the only groundwater well that could potentially be impacted is the David Well, No. 1, U.W. 932. Since the Wyoming National Guard owns the adjacent land approximately 4000 feet downstream from the wastewater facility, the City of Guernsey shall notify the Guard Base about the possibility that groundwater contamination exists in this area.

C. REQUEST/REQUIREMENTS/RECOMMENDATIONS:

The three piezometers (94-2, 94-3, and 94-4) to be installed to determine the groundwater mounding of the wastewater lagoons are not required. Although the data from these wells may be beneficial, identifying the direction of the downgradient migration of the plume (i.e., whether the groundwater is recharging the river throughout the year) is WDEQ/WQD's major concern.

Since the piezometers' screens are much shorter than screens in conventional monitoring wells, samples taken from piezometers are not representative of the groundwater quality. Conventional (PVC) monitoring wells may be required at downgradient locations.

WDEQ/WQD authorizes Permit to Construct #94-027 under the following **CONDITIONS:**

1. During the first sampling event samples shall be taken from the locations indicated in the application materials (Task No. 2). Water level measurements shall be taken at each sampling location and at the specified river locations.
2. If future groundwater quality sampling is deemed necessary at downgradient locations, the installation of conventional groundwater monitoring wells will be required to attain representative groundwater samples.
3. A Sampling and Analysis Plan (SAP) shall be submitted with the summary groundwater report. The SAP shall address QA/QC of the groundwater sampling procedures.
4. In accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations, the applicant will provide immediate oral and/or written notice to WDEQ/WQD, Cheyenne, (307) 777-7781 of any changes or modifications which are not consistent with the terms and conditions of this permit.
5. Within sixty days of completion of construction of the monitoring wells/piezometers, the applicant shall submit to WDEQ/WQD, Cheyenne:

- a. The summary report that contains the items in *Conditions 18.a.j*; and
 - b. If any modifications or changes are done during construction of monitoring wells/piezometers (i.e., installation at different locations than specified on the map, etc.), 'as-constructed' drawings and/or specifications shall be submitted.
6. The groundwater monitoring piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-027. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
 7. All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
 8. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells/piezometers 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.
 9. After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.
 10. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the Division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
 11. The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).
 12. In addition to the well/piezometer construction information submitted with the permit application, the following items relating to well/piezometer construction shall be implemented when the wells/piezometers are constructed, installed and developed:
 - a. Annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;
 - b. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal;

- c. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well/piezometer;
 - d. A top and bottom cap of the same material as the well/piezometer casing shall be installed to prevent sediment and surface water from entering the well/piezometer; and
 - e. The monitoring well/piezometer shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected.
13. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.
14. Within sixty (60) days of the installation of the monitoring wells/piezometers, 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, monitoring well/piezometer/borehole locations, and mean sea level elevations of the top of casing/measuring point;
 - c. Final location, construction details and lithologic logs of monitor wells/piezometers/boreholes;
 - d. Static water levels;
 - e. Sample collection procedures;
 - f. Sampling analytical results;
 - g. A map delineating the extent of the subsurface contamination (i.e., nitrate as nitrogen and ammonia as nitrogen);
 - h. A potentiometric surface map showing the direction and gradient of groundwater flow; and
 - i. Interpretation of the data and conclusions of the investigation, including additional recommended investigation and remedial measures, and a schedule for implementation of these measures.
15. Proper monitoring well/piezometer evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well/piezometer dry once, whichever occurs first. Sample collection, preservation, transportation and chemical

analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

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

TDS, nitrate as N, and ammonia as N;

and **static water level measurements** shall be taken **monthly** at each groundwater monitoring well, piezometer, and specified river location for a period of **one (1) year** following the issuance of this permit.

- a. After the second monitoring event, the WQD may substitute a shorter list for the above parameters, depending on the results of the second monitoring event.
- b. 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 is due **April 30, 1994**.

THE STATE



OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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August 26, 1994

JJ&T Enterprise Inc.
212 Tyler Place #43
Cheyenne, WY 82007

RE: Circle Trailer Park, Water Supply Well, DEQ/WQD Ref. No. 94-028, Section 8, T13N, R66W, Laramie County

Gentlemen:

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 not 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,

Ronald Ewald
Senior Analyst
Water Quality Division

RE/nc 43717.LTR
cc: IPS

MEMO

To: IPS

From: Ron Ewald

Date: August 25, 1994

Subject: Withdrawal of Permit To Construct Application # 94-028

Mr. Randy Jackson, the owner of the Circle Trailer Park, wishes to withdraw his application for a permit to construct (see letter attached). Could you please prepare the proper return letter and other documentation necessary to properly accomplish this, and then go ahead and return the material to him and log the withdrawal in the card file.

Thanks, Ron.

J.J.&T. Enterprises, Inc.
212 Tyler Pl. #43
Cheyenne, WY 82007

August 19, 1994

Mr. Ron Ewald
Department of Environmental Quality
122 West 25th Street
Cheyenne, WY 82002

Dear Mr. Ewald,

Re: Circle Park Mobile Home Park application for drinking water.

As per our telephone conversation of August 18, 1994, I would like to withdraw my application for drinking water at this time. I have decided to continue using the well for irrigation purposes only.

Thank you for your cooperation.

Sincerely,



Randy L. Jackson
Park owner

RECEIVED

AUG 25 1994

**WATER QUALITY DIVISION
WYOMING**



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Circle Trailer Park - Water Supply Well

ENGINEER: Donald M. Hopkins
D.M. Hopkins & Associates
3313 Birch Place
Cheyenne, Wyoming 82001

APPLICANT: JJ+T Enterprise, Inc.
Attn. Randy Jackson
212 Tyler Pl., #43
Cheyenne, Wyoming 82007

WATER QUALITY REFERENCE NUMBER: 94-028

REVIEWING ENGINEER: Ronald L. Ewald *RLE*

DATE OF REVIEW: February 9, 1994

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

General Comment - Overall, the application as submitted is incomplete and inadequate in that it makes narrative summary statements about design parameters and specifications without giving any real engineering design calculations or justifications. A detailed description of what should be included in the Engineering Design Report (EDR) and the

project specifications is found in Sections 6 and 7 of Chapter XII of the Wyoming Water Quality Rules and Regulations. Specific shortcomings are listed below along with references to the specific sections which detail the design standards.

1. Specifications - A reference to what set of standard specifications are to be used should be stated, or a copy of the specifications submitted along with the application. Section 7, (f). Construction materials must also be identified under this section.
2. Plan and Profile Drawings - plan and profile drawings of any new water lines need to be provided showing the proximity of sewer lines, and especially the details where sewer lines cross the water line. Section 7, (c).
3. Question, Fire Protection - Are there any fire hydrants connected to the water distribution system for the trailer park? The answer to this question will greatly affect the next three(3) items.
4. Groundwater Supply Source Development - The groundwater supply system (and associated storage) must be capable of supplying twice the maximum daily demand, as required by Section 9, (b). No mention is made in the EDR of what the design flows are (either average day or peak day, etc.) or how they were determined.
5. Finished Water Storage - The requirements for both the size and construction are found in Section 13.
6. Pressure and Flow Requirements - The pressure and flow requirements for both normal working conditions and worst case conditions are found in Section 14, (b).
7. Well Production Testing and Records - The testing and recordkeeping requirements for determining allowable well yield and drawdown are found in Section 9, (b), (ii).
8. Well Construction - The requirements for well construction and documentation are found in Section 9, (b), (iii).
9. Well Pumps, Discharge Piping, and Appurtenances - The requirements for these items are found in Section 9, (b), (iii), (D).
10. Chlorine Disinfection - The requirements for chlorine disinfection and the arrangement, housing, and construction of the chlorination equipment are found in Section 10, (k) and Section 11.
11. Operation and Maintenance Manual - An O&M Manual must be developed to meet the requirements of Section 16 and submitted

to the Water Quality Division for review and approval before the water well supply system is placed into service.

Additional Comments - Not DEQ/WQD Construction Requirements:

- A. Licensed Public Water System Operator - Because this system will possibly be classified as some level (as yet unknown) of public water supply system, the operators of this facility may need to have the proper level of water system operator rather than just a distribution system operator. If you have any questions about these potential requirements please call Louise Cordova, the Water Quality Occupational Licensing Officer, at 777-6128.
- B. EPA Water Quality Sampling - Because this system will be a public water supply and because the State of Wyoming does not have primacy over drinking water, the operational aspects of this system will fall under the jurisdiction of the EPA Region VIII Drinking Water Section and require periodic sampling. To find out exactly what you will need to sample for, where to take samples, and how often to take samples; please contact the Wyoming Drinking Water EPA Coordinator, Maureen Doughtie, at the toll free number: 1-800-227-8917, extension 2617. This information should also be included in the O&M manual.

RLE/mad 40659.LTR

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Circle Trailer Park - Water Supply Well

ENGINEER: Donald M. Hopkins
D.M. Hopkins & Associates
3313 Birch Place
Cheyenne, Wyoming 82001

APPLICANT: JJ+T Enterprise, Inc.
Attn. Randy Jackson
212 Tyler Pl., #43
Cheyenne, Wyoming 82007

WATER QUALITY REFERENCE NUMBER: 94-028

REVIEWING ENGINEER: Ronald L. Ewald *RLE*

DATE OF REVIEW: April 13, 1994

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

- Item 1 - The South Cheyenne Water and Sewer Standard Specifications were never approved by DEQ, therefore the Wyoming Public Works Standard Specifications are the proper standards to use and should be so referenced.
- Item 2 - Water mains crossing under sewers should be protected by separate conduit pipe to at least 10 feet out on each side of the crossing according to Chapter XII, Section 14 (g) (i).
- Item 3 - Response OK, no fire hydrants connected to park water distribution system.
- Item 4 - Still not clear what the design average daily demand is and why. In one place it says the average is 36,270 gpd, in another it says 15,442 gpd, and it yet another it says 23,400 gpd, and the storage is indicated at 20,400 gpd. Which is it and why?

Keeping the South Cheyenne water supply system as an emergency backup is a good idea. However, you will need

to get this plan approved by South Cheyenne Water and Sewer and supply a letter from South Cheyenne W&S which indicates that they have reviewed and approved this plan, including the shut off and backflow prevention plans to protect their system, and that they will maintain adequate water pressure to these connection points should this option be needed. A copy of any agreement should be included with this application along with detailed switchover procedures in the O&M manual.

Additionally, the exact type of backflow prevention device must be specified, including make and model. Also, documentation must be provided to verify that the proposed unit is approved by the Foundation for Cross-Connection Control, University of Southern California, as required by Chapter XII, Section 14(i) of the Water Quality Rules and Regulations.

- Item 5 - The WQD cannot analyze the adequacy of the storage until item 4 is fully answered. Also, the dimensions of the storage tank must be provided to verify the storage capacity.
- Item 6 - How will the 60 psi residual and 130 psi static pressures be obtained and maintained by the new equipment and set-up?
- Item 7 - This office must see, and approve, the retest results before a permit can be issued.
- Item 8 - The type of well construction used must be identified; such as drilled, driven, jetted, or bored. Also, as much detail as possible of the actual construction should be provided. Information such as bore diameter, screened interval locations, type and placement of annular space materials such as gravel pack, grout, cement, or bentonite, geology encountered, construction materials, and so on. Refer to Chapter XII, Section 9(b)(iii).
- Item 9 - OK: Additional information is sufficient.
- Item 10 - OK: Additional information is sufficient.
- Item 11 - The O&M manual will have to be reviewed and approved by the WQD before the new alternative water supply system is allowed to be placed into service! However, if all other concerns are adequately answered a permit to construct could be issued before the O&M manual is done, with the condition that the O&M manual be approved before the system is placed into service.

April 13, 1994

Page 3

Comment - Mr. Jackson called to ask if it were required that the steel water storage tanks be lined with fiberglass. This is not a requirement. There is a requirement that metal surfaces shall have painting and/or cathodic protection. Protective coatings must be compatible with both the tank and the stored water. Such materials shall conform to AWWA Standard D102 according to Chapter XII, Section 13(a)(x). Protective paint coatings are allowed under this section if they meet the AWWA D102 standard.

RLE/mad 41645.LTR



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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May 9, 1994

TOWN OF TORRINGTON
P O BOX 250
TORRINGTON WY 82240

RE: PERMIT CONDITION COMPLIANCE - Construction Schedule Card
Facility: WELLHEAD PROTECTION PROGRAM
Permit Number: 94-029

Dear Facility Owner:

According to our records it has been over 60 days since the above referenced "Permit To Construct" was issued. One of the specified permit requirements was that the applicant/owner notify the appropriate district office of the Water Quality Division (WQD) via the post card attached to the permit, of the estimated dates that construction will begin and end. Please complete the attached post card and return it to the WQD right away. If the project has already been completed, please complete the required "CERTIFICATION OF COMPLETION" form which was included with the permit when issued.

To be in compliance with the permit these requirements must be followed. If you have any questions please call me at 777-7088.

Sincerely,

Gary Steele
SE District Supervisor
Water Quality Division

GS/nc 42011.LTR
Enclosure: Replacement Schedule Card
cc: Permit Compliance Tracking File

RF

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-029
SPECIAL CONDITIONS

Town of Torrington - Wellhead Protection Program

This permit hereby authorizes the applicant:

Town of Torrington
P.O. Box 250
Torrington, WY 82240

to construct, install or modify monitoring wells according to the procedures and conditions of the application number 94-029. The facility is located in T 24 & 25 N, R 61 & 62 W in the county of Goshen, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

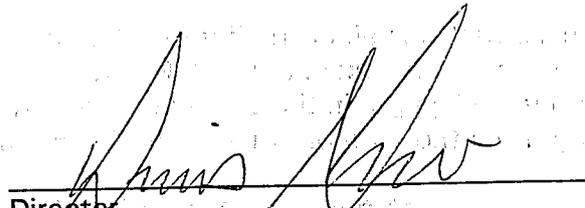
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

2/16/94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 12 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 12 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 12 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

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

4 of 12 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

Monitoring Well/Piezometer Conditions

5 of 12 The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-029. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).

6 of 12 All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.

7 of 12 Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells/piezometers 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.

8 of 12 After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with City and/or Highway Department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.

9 of 12 The applicant is responsible for obtaining any Permits required by the State Engineer's Office (777-7354).

10 of 12 In addition to the well/piezometer construction information submitted with the permit application, the following items relating to well/piezometer construction shall be implemented when the wells/piezometers are constructed, installed and developed:

- a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
- b. For water table (unconfined) aquifers, the screened interval shall extend at least two (2) feet above the highest expected groundwater level. Monitoring wells/piezometers installed in confined and semi-confined aquifers shall be constructed in accordance with Chapter XI, Section 68 of Water Quality Division Rules and Regulations. Factory screen or slotted casing is recommended for the perforated interval;
- c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
- d. To minimize the entrance of fine grained material into the well/piezometer, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to a minimum of one (1) foot above the screened interval;
- e. Filter pack, annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;
- f. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal.
- g. The annular space above the bentonite seal to within one foot (1') of the surface will be sealed with Portland cement, sand-cement grout, or bentonite grout.
- h. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well/piezometer;
- i. A top and bottom cap of the same material as the well/piezometer casing shall be installed to prevent sediment and surface water from

entering the well/piezometer;

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

11 of 12 Within 60 days after completion of the site study a report shall be submitted to WQD. This report shall contain at a minimum:

- a. A site map showing the physical features, monitoring well/piezometer/borehole locations, and mean sea level elevations of the top of casing/measuring point;
- b. Final location, construction details and lithologic logs of monitor wells/piezometers/boreholes;
- c. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;
- d. Sample collection procedures;
- e. Sampling analytical results;
- f. A potentiometric surface map showing the direction and gradient of groundwater flow; and

12 of 12 All monitor wells/piezometers associated with this facility shall be sampled and the groundwater analyzed and the results submitted annually to WQD:

- a. The results of these analyses shall be submitted to the Cheyenne office as soon as they are available.

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-029

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

Yes

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

No

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

N/A

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

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

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 (indicate the policy number and briefly summarize the nature of the deviation).

N/A

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

N/A

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

N/A

VII. Documentation of Statement of Basis.

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

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

33954.DOC

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-030
* **CONDITIONED** *

Dubois Marciana Street Sewer Extension
(Name of Facility)

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

Leon Sanderson

P.O. Box 1099

Dubois, WY 82513

to construct approximately 110 lineal feet of eight (8) inch diameter sewer according to the procedures and conditions of the application No. 94-030. The facility is located in NW1/4NW1/4 Section 7, T41N, R106N, Town of Dubois 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.

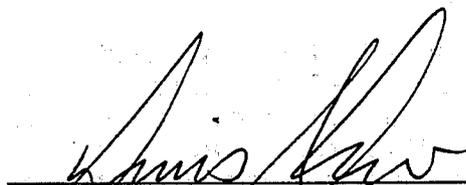
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

2/10/94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

1. of 4 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 4 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 4 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-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
4. of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-030

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. 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.

Yes

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

No

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

No

IV. Facilities not specifically covered by regulations.

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

Statement of Basis
94-030
February 9, 1994

- 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

- New
 Renewal
 Modified

Permit No. 94-031R
* **CONDITIONED** *

Williams Field Service Echo Springs Facility SWTF
(Name of Facility)

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

Williams Field Services

295 Chipeta Way

Salt Lake City, UT 84158

to construct a two small wastewater systems according to the procedures and conditions of the application No. 94-031R. The facility is located in S1/2 S1 T19N R93W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two years from the date of issuance of this permit.

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

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

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

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

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

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

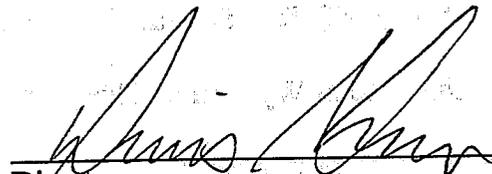
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

4-21-94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

1. of 4 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.

Permit to Construct 94-031R
Williams Field Service Echo Springs Facility SWTF

2. of 4 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 4 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-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
4. of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

RRT/nc 41749.LTR

STATEMENT OF BASIS

- I. General information.
 - A. Permit Number: 94-031R
- II. Application reviewed for compliance with the following regulations.
 - A. Chapter XI. Yes
 - B. Chapter XII. 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.
Yes
 - B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No
 - C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No
- IV. Facilities not specifically covered by regulations.
 - A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
 - B. Briefly state the basis for the deviation.
 - C. Permit based on general or statewide deviation contained in approved policy statement.

Statement of Basis
94-031R

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. *See footnote*¹

Not Applicable

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.

RRT/nc 41749.LTR

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

THE STATE



OF WYOMING

MIKE SULLIVAN
GOVERNOR



Department of Environmental Quality

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

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

November 22, 1994

Mr. John Horn
P.O. Box 7400
Jackson, WY 83101

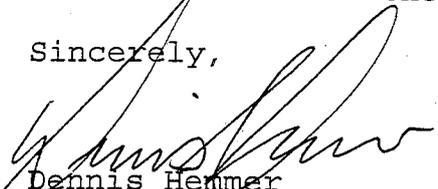
RE: As-Built Permit to Construct, WQD Reference No. 94-032R

Dear Mr. Horn:

The Department of Environmental Quality/Water Quality Division (DEQ/WQD) has reviewed the referenced As-Built Application submitted by your engineer, Sunrise Engineering, Inc., of Afton, Wyoming. Our review indicates that the application appears to meet DEQ/WQD regulations and the enclosed As-Built Permit To Construct is hereby issued.

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

Sincerely,


Dennis Henner
Director
Department of Environmental Quality

DH/GL/nbs/b/45380.1tr

cc: Sandy Buckstaff, Town of Jackson

AS - BUILT
PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-032R
* **CONDITIONED** *

Jackson - Rafferty Waterline Extension
(Name of Facility)

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

John Horn

P.O. Box 7400

Jackson, WY 83101

to have constructed approximately 320 lineal feet of six (6) inch diameter ductile iron waterline and appurtenances according to the procedures and conditions of the application No. 94-032R. The facility is located in SW1/4, NW1/4, Section 5, T40N, R116W in the County of Teton, in the State of Wyoming.

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

The authority to construct granted by this permit does not mean or imply that the Wyoming Department of Environmental Quality guarantees or insures that the permitted facility 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 As-Built construction permit.

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.

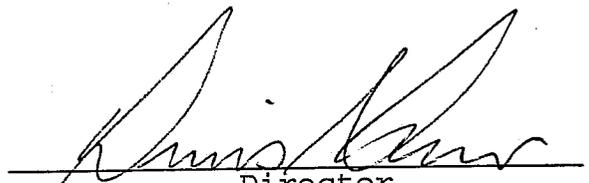
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

11-29-94

Date of Issuance

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

GL/bb/45380.ltr

STANDARD CONDITIONS 1 through 2

1. of 2 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.
2. of 2 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-032R
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. No
- B. Chapter XII. Yes
- III. Basis for issuing permit.
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
- Yes
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
- No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
- No
- IV. Facilities not specifically covered by regulations.
- 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

Statement of Basis
94-032R
November 22, 1994

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.

GL/bb/45380.ltr



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

May 9, 1994

CHEYENNE BD OF PUBLIC UTILITY
2100 PIONEER AVE
CHEYENNE WY 82001

RE: **PERMIT CONDITION COMPLIANCE** - Construction Schedule Card
Facility: E LINCOLNWAY WTR MAIN REPLACE
Permit Number: 94-033

Dear Facility Owner:

According to our records it has been over 60 days since the above referenced "Permit To Construct" was issued. One of the specified permit requirements was that the applicant/owner notify the appropriate district office of the Water Quality Division (WQD) via the post card attached to the permit, of the estimated dates that construction will begin and end. Please complete the attached post card and return it to the WQD right away. If the project has already been completed, please complete the required "CERTIFICATION OF COMPLETION" form which was included with the permit when issued.

To be in compliance with the permit these requirements must be followed. If you have any questions please call me at 777-7088.

Sincerely,

Gary Steele
SE District Supervisor
Water Quality Division

GS/nc 42011.LTR

Enclosure: Replacement Schedule Card
cc: Permit Compliance Tracking File

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 94-033
SPECIAL CONDITIONS

East Lincolnway Water Main Replacement

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utility
2100 Pioneer Ave.
Cheyenne, WY 82001

to construct, install or modify publicly owned distribution system according to the procedures and conditions of the application number 94-033. The facility is located in SE 1/4 Section 32, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

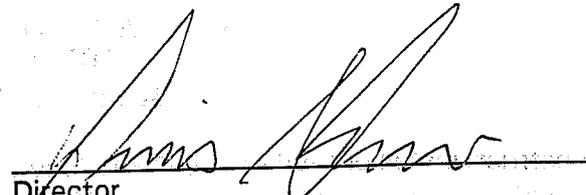
Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002; telephone (307) 777-7781.

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

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

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Department of Environmental Quality

2/23/94
Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 5 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 5 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 5 The system shall maintain a minimum pressure of 20 psi under all flow conditions.

GLS/nc 40854.LTR

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-033
- II. Application reviewed for compliance with the following regulations. (Indicate yes or no for each section.)
- A. Chapter XI. No
- B. Chapter XII. Yes
- III. Basis for issuing permit. (Indicate yes or no for each section.)
- A. Review of application package indicates proposed facility will be in compliance with applicable regulations identified in Section II.
Yes
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
No
- IV. Facilities not specifically covered by regulations. (Indicate the section number of the regulations and briefly summarize the regulation.)
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
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 (indicate the policy number and briefly summarize the nature of the deviation).

N/A

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

N/A

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

N/A

- VII. Documentation of Statement of Basis.

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

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

GLS/nc 40854.LTR

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-034
SPECIAL CONDITIONS

Manville Water Supply Chlorination

This permit hereby authorizes the applicant:

Town of Manville
Manville Town Hall
Manville, WY 82227

to construct, install or modify public water supply according to the procedures and conditions of the application number 94-034. The facility is located in Section 12, T 32 N, R 65 W in the county of Niobrara, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

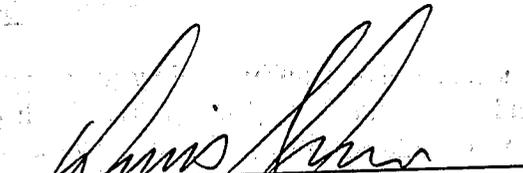
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District, State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

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

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

AUTHORIZED BY:


Administrator
Water Quality Division


Director
Department of Environmental Quality

2-15-94
Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 5 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 5 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 5 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and

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

4 of 5 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

5 of 5 An O & M manual shall be approved by this office prior to placing the chlorination units into service.

GLS/jn - 40700.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-034

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

A. Chapter XI. No

B. Chapter XII. Yes

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

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

Yes

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

No

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

No

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

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

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 (indicate the policy number and briefly summarize the nature of the deviation).

N/A

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

N/A

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

N/A

VII. Documentation of Statement of Basis.

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

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

33954.DOC



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

1043 Coffeen Avenue, Suite D ● Sheridan, Wyoming 82801

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

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

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

August 22, 1994

Mr. J.A. Deschamp
Environmental Specialist
Amoco Production Company
P.O. Box 10
Midwest, WY 82643

Re: Withdrawal of Application for Permit to Construct 94-035
(Lact 5 Condensate Drip Tank Containment System)
NE 1/4 SW 1/4 Sec. 30/T40N/R78W

Dear Mr. Deschamp:

The Application for Permit to Construct 94-035 is being withdrawn from the WDEQ/WQD permitting process. The application addressed a containment system that was to be installed to remediate the soil and groundwater adjacent to the condensate drip tank. After subsequent correspondence with WDEQ/WQD, it was decided that monitor wells should be installed as an initial step to delineate the extent of contamination. These wells will be installed under Permit to Construct 94-248, currently under review.

Sincerely,

Wm Donald Fischer
Senior Environmental Analyst
Water Quality Division, NE District

WDF/pr

cc: IPS
Phil Stump, WDEQ/WQD, Cheyenne
Amoco file



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

February 18, 1994

Mr. J.A. Deschamp
Environmental Specialist
Amoco Production Company
P.O. Box 10
Midwest, WY 82643

Re: Application for WQD Permit #94-035: Containment of Condensate Drip Tank Leak (LACT 5 Unit), SW/4, SEC 30-T40N-R79W, Natrona County, WY

Dear Mr. Deschamp:

The Water Quality Division (WQD) has reviewed the referenced application for a Permit to Construct. Comments, recommendations and/or additional requirements are summarized on the enclosed Groundwater Pollution Control (GPC) Program review form.

Please contact Mr. Phil Stump, WDEQ/WQD, Cheyenne (777-5449) should you have any questions regarding this review.

Sincerely,

Kevin D. Frederick, P.G.
Supervisor
Groundwater Pollution Control Program

KDF/bb/40825.1tr

Enclosure: GPC Program Review Form

cc: File: GPC Review Forms

Mr. Harry Carmichael, US EPA, Region VIII
Mr. Collin Cunningham, Worthington, Lenhart and Carpenter
Mr. Don Fischer, WQD
Mr. Phil Stump

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: Salt Creek Oilfield: LACT 5 Drip Tank Leak Con-
tainment (Interceptor Trench and Extraction Well)

APPLICANT: Amoco Production Company
P.O. Box 10
Midwest, WY 82643

ENGINEER/
CONSULTANT: Collin Cunningham
Worthington, Lenhart & Carpenter
632 S. David
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 94-035

EXISTING NEW AS BUILT

TITLE: Letter of February 4, 1994

PLANS SPECS PROPOSAL REPORT

DATE ON PROPOSAL/PLANS/REPORT: February 4, 1994

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING GEOLOGIST:

Kevin D. Frederick, P.G.
(Signature)

REVIEWING ENGINEER:

Phillip Stump
(Signature)

DATE OF THIS REVIEW: February 11, 1994

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS: GROUNDWATER SECTION

I. SUMMARY OF EXISTING CONTAMINATION:

On November 9, 1993 Amoco reported a leak from a pipeline condensate drip tank associated with the Salt Creek oilfield LACT 5 Unit. Subsequent to the leak, test pits were dug to define the extent of groundwater contamination. Since the results of this investigation have not been submitted for review, the extent of contamination is unknown at this time. Samples of groundwater from two test pits indicated Benzene concentrations in excess of the MCL (5 ppb).

II. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

Since the results of this investigation have not been submitted for review, the extent of contamination is unknown at this time. An application for a Permit to Construct for interceptor trenches and an extraction well were submitted by Amoco on February 4, 1994.

III. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

Amoco must submit the following information in order to obtain WDEQ/WQD authorization for a Permit to Construct the interceptor trenches and extraction well:

(NOTE: Submit engineering drawings that are scaled to show sufficient details. Specifications for all materials such as piping, electrical equipment, pump controllers, liquid level detectors, tanks, valves, flow and pressure meters, etc., shall be identified on engineering plans/drawings and copies of manufacturers' specification sheets shall be submitted.)

1. Site Investigation/Characterization:

a. Site map (plan view), illustrating:

- (1) Location of condensate drip tank and pipeline(s);
- (2) Names and locations of all test pits;
- (3) Names and locations of all monitoring wells;
- (4) Extent of contamination;
 - (a) soils;
 - (b) groundwater:
 - i) free product
 - ii) dissolved constituents
- (5) Location of proposed interceptor trenches and extraction well;
- (6) Discharge line(s) from the extraction well to the injection well, illustrating any holding tanks;
- (7) Location of existing plugged and abandoned oil wells;
- (8) Pump house (building) and associated piping and electrical;
- (9) Lateral extent of Salt Creek's alluvial floodplain aquifer.

- b. Potentiometric surface map of the Salt Creek alluvial floodplain aquifer;
- c. Lithologic logs for all test pits;
- d. All sampling data and analytical results from all test pits sampled;
- e. All aquifer testing data;
- f. Geologic/hydrogeologic characteristics of the Salt Creek alluvial floodplain aquifer:
 - (1) Thickness;
 - (2) Lateral extent;
 - (3) Homogeneity/heterogeneity;
 - (4) Hydraulic characteristics.
- g. Any field data and/or other reports generated.

2. **Extraction Well:**

- a. Revised construction detail, illustrating:
 - (1) diameter of extraction well casing;
 - (2) diameter of wellbore;
 - (3) depth of wellbore;
 - (4) depth of casing;
 - (5) elevation of top of casing (TOC) of extraction well;
 - (6) filter pack interval and specification;
 - (7) perforated interval and size;
 - (8) annular seal interval and specification;
 - (9) surface seal interval and specification;
 - (10) finished construction: surface, top and bottom of casing;
 - (a) **NOTE:** With respect to the proposed design, what features or other measures will be included to prevent surface run-off from entering the wellbore?
 - (11) depth to water table;
 - (12) estimated depth to seasonally high water table;
 - (13) estimated depth to seasonally low water table;
 - (14) interval(s) of contaminated soil;
 - (15) recovery pump:
 - (a) depth to pump intake;

- (b) discharge line, flowmeter and all other piping;
- (c) electrical wiring;
- (d) operating elevations:
 - i) pumping
 - ii) non-pumping
- (e) winterization

b. Proposed pumping operation design:

- (1) Discharge rate (gpm):
 - (a) Continuous, or pulsed?
 - (b) maximum operating flow rate;
- (2) Water table cone of depression developed from operation of the extraction well at this rate.

3. **Interceptor Trench/Underdrain:**

- a. Plan view, illustrating:
 - (1) underdrains and extraction well (sump);
 - (2) groundsurface contours;
 - (3) proposed capture area of hydrocarbon seep (estimated from drawdown calculations);
- b. Profile view, illustrating:
 - (1) underdrains and extraction well;
 - (2) backfill material and any liners;
 - (3) locations of perforations on underdrains;
 - (4) slope of groundsurface and slope of underdrains;
 - (5) elevations of underdrains;
 - (6) depth of extraction well;
 - (7) depth and thickness of free product (i.e. floating hydrocarbons);
 - (8) elevations of the estimated seasonal high and low and average water table levels;
(NOTE: The underdrain should be located at the correct depth to capture the full vertical extent of floating hydrocarbons at all times during the year);
- c. Submit trench inflow calculations estimating the total inflow to the trench;
- d. Verify that the proposed collection system (i.e., underdrain, pipes, sump, pump, etc.) can handle the maximum anticipated inflow into the trench **(NOTE: the extraction rate should be equal to or greater than the inflow to maintain a drawdown at the trench face);**

- e. Submit a contingency plan that describes procedures to be followed in the event of an equipment failure or required maintenance to the collection system.
4. Copy of the Permit authorizing discharge of extracted fluids to the injection well.
5. An **Operations and Maintenance Manual** for the entire system, including the underdrain and extraction well;
6. A **Monitoring Plan** to monitor the effectiveness of the system for the purpose of containing floating and dissolved hydrocarbons.

The materials listed above should be submitted for review to Mr. Philip Stump, WDEQ/WQD, Herschler Bldg. - 4W, Cheyenne, WY, 82002 within thirty (30) days of receipt of this review.

As stated in your February 4, 1994 letter to me, an annual report will be submitted before December 31 of each year. This evaluation should also include an evaluation of the effectiveness of the system by providing:

1. Documentation that the underdrain intercepts, or lies below the water table at all times of the year, including during the seasonally low water table level. Monitoring wells will provide the necessary information.
2. Discussion of periodic visual observations for seepage along the bank of Salt Creek.
3. Documentation that the system is containing all floating and dissolved hydrocarbon associated with the source.
4. A plan and schedule for modifications to the system, or the installation of additional systems to meet this objective should be included in the report in the event that the system is not effective in capturing the floating and dissolved contaminant "plumes".

Please mail the annual report to the attention of Mr. Don Fischer, WDEQ/WQD, 2161 Coffeen Avenue, Sheridan, WY, 82802.

END OF REVIEW

LAND APPLICATION PERMIT

- New
 Renewal
 Modified

PERMIT NO. 94-036
Reference # 93-191
SEE SPECIAL CONDITIONS

WESTERN PRODUCTION WASH BAY ROAD APPLICATION
(Name of Facility)

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

Western Production Company
923 Grieves Road
Newcastle, WY 82701

to land apply wash bay wastewater according to the procedures and conditions of the application No. 94-036. The application site is located in the NW/4 of the NW/4 of Section 9 T42N R64W in the County of Weston in the State of Wyoming. This permit shall be effective from April 10 to November 1 of 1994.

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

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

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

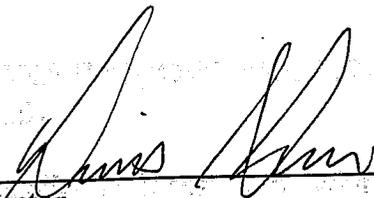
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

3-22-94

Date of Issuance

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

DRM/pr:03/17/94
41255.ltr

SPECIAL CONDITIONS

- 1 of 9. The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division (DEQ/WQD) of the anticipated project commencement and completion dates with the attached post card. At least 48 hours advance notice is required. The authorized representative in your area can be reached at the following address: Wyoming DEQ/WQD, Sheridan District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801, telephone number 307/672-6457.
- 2 of 9. The permittee shall provide immediate oral and/or written notification, in accordance with Section 9 of Chapter III, to the Sheridan District Office of any changes or modifications to the approved permit package.
- 3 of 9. The permittee shall provide certification that the project was completed in accordance with the terms and conditions of the permit within sixty (60) days of the project completion to the Sheridan District Office on the attached Certification Of Completion form.

Special Permit Conditions
Permit 94-036

- 4 of 9. The permittee shall submit a contour map depicting only those sections of road that actually received wastewater within sixty (60) days of the project completion to the Sheridan District Office.
- 5 of 9. The review and approval of this permit is based upon the items identified in the attached Statement Of Basis.
- 6 of 9. The wastewater shall be applied uniformly.
- 7 of 9. The application of the wastewater shall not be conducted at times when saturated soil conditions exist or when the ground is frozen.
- 8 of 9. The application site slope shall not exceed eight percent (8%) for vehicular application.
- 9 of 9. The application of the wastewater shall be terminated within 300 feet of the definable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.

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

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-036

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

A. Chapter XI. No.

B. Chapter XII. No.

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

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

No.

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

No.

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

No.

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

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

There are no numeric standards or criteria in Chapter XI for road application. W.S. 35-11-301 (a) (iii) requires a permit to be issued when any disposal system capable of causing or contributing to pollution is constructed, installed, modified, or operated.

B. Briefly state the basis for the deviation.

Road application is permitted when DEQ authorized disposal facilities are not readily available, a beneficial use of the waste to be applied is possible, and significant impact to waters of the State is minimized.

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

District Policy numbers 10.1 (4/9/91), 10.2 (10/17/86), 10.3 (8/1/91), 10.4 (10/24/91), and 10.6 (12/03/90) address the statutory authority to regulate the road application of waste, establish the criteria for characterizing the waste, and determine acceptable conditions for the application of the waste to roadbeds to minimize impact to waters of the State.

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

Applicable.

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

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

The opportunity for direct or indirect discharge, percolation, or filtration to groundwater is minimized by uniformly applying the wastewater into the roadbed. Repeated applications of wastewater to the same sections of road will be monitored by roadbed analyses.

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

N/A.

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

N/A.

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

N/A.

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

N/A.

Statement of Basis

Permit to Construct #94-036

Page 3

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

N/A.

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

N/A.

VII. Documentation of Statement of Basis.

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

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

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-037R
* **CONDITIONED** *

Alpine Market SWTF
(Name of Facility)

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

Providence Trust Company, A Texas Corporation, TTEE FBO# I1546A
c/o Providence Administration, Inc.

10200 Sepulveda Blve, Suite 180

Mission Hills, CA 91345-2649

to construct a leach field/septic tank system according to the procedures and conditions of the application No. 94-037R. The facility is located in SW 1/4, Section 20, T37N, R119W 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
Department of Environmental Quality

3-4-94

Date of Issuance

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

KLE - 40976.ltr

STANDARD CONDITIONS 1 through 5

1. of 5. 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 5. 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.

Statement of Basis
94-037R
March 1, 1994

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. *See footnote*¹

N/A

- VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected.

N/A

- VII. Documentation of Statement of Basis.

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

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

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-037R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. YES

B. Chapter XII. 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.

YES

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

NO

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

NO

IV. Facilities not specifically covered by regulations.

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

3. of 5.

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-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4. of 5.

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

5. of 5.

Upon excavation of the existing septic tank the engineer shall measure the tank and submit the information to the DEQ/WQD Lander office to obtain approval for reusing the tank. Additionally, at the time of excavation of the leachfield, the engineer shall verify the soils encountered are consistent with the percolation rates used in the design.

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-038
SPECIAL CONDITIONS

Water and Sewer Improvements - City of Douglas

This permit hereby authorizes the applicant:

City of Douglas
101 North Fourth Street
Douglas, WY 82633

to construct, install or modify public waster supply and wastewater facility according to the procedures and conditions of the application number 94-038. The facility is located in Sections 9, and 16, T32N, R71W in the county of Converse, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

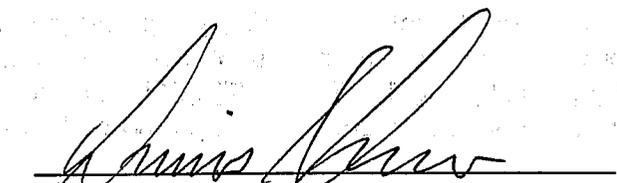
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

3-14-94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 4 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 4 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

Permit 94-038
City of Douglas

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

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

GLS/bb/41141.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-038

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

A. Chapter XI. Yes

B. Chapter XII. Yes

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

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

No

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

Section 5, Chapter XI, yes

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

No

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

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

Chapter XI Section 9(d)(i): Manholes shall have a maximum spacing of 400 feet for pipe sizes 15 inches or less.

B. Briefly state the basis for the deviation.

The manholes are designed at a spacing of 500 feet. The Town of Douglas has provided a letter indicating that they have the ability to properly maintain the manholes with a spacing of 500 feet.

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

N/A

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

N/A

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

N/A

VII. Documentation of Statement of Basis.

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

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

GLS/bb/41141.LTR

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Water and Sewer Improvements - City of Douglas

ENGINEER: John A. Lambert
P.O. Box 34
Douglas, WY 82633

APPLICANT: City of Douglas
101 North Fourth Street
Douglas, WY 82633

WATER QUALITY REFERENCE NUMBER: 94-038

APPROVING ENGINEER: Gary Steele 

DATE OF REVIEW: 02-14-94

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

- 1 of 3 Chapter XII Section 7(c)(ii) requires that a profile be provided for all water lines shown. A profile is required for the section of water line to be replaced.
- 2 of 3 All water mains within 30 feet of the sewer line need to be shown in the profile to verify that the water main is 18 inches above the sewer main. If the water main is not 18 inches above the sewer main then additional protection is required in accordance with Chapter XI.
- 3 of 3 Chapter XI of the Water Quality Rules and Regulations requires that the maximum spacing between manholes be 400 feet. Please provide information showing that the town has the ability to service 500 feet of sewer line.

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 94-039
SPECIAL CONDITIONS

Little America - Wastewater Pond Chlorination System

This permit hereby authorizes the applicant:

Sinclair Oil Corporation
P.O. Box 30825
Salt Lake City, Utah 84130-0825

to construct, install or modify an NPDES effluent chlorination system according to the procedures and conditions of the application number 94-039. The facility is located in SW 1/4 Section 02 T13N R67W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

4/20/94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 4. The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 4. The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 4. Within sixty days of completion of construction of the authorized facility, the applicant will submit to the Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

PERMIT NO. 94-039

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

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

RLE/mad 41733.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-039

B. Facility Name: Little America - Wastewater Pond Chlorination System

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

Yes

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

No

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

No

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

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

NOT Applicable

B. Briefly state the basis for the deviation.

NOT Applicable

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

NOT Applicable

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

NOT Applicable

- VI. Deleted

- VII. Documentation of Statement of Basis.

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

33615.DOC

RLE/mad 41733.LTR

cc: Tom Richards
Field Engineer, Sinclair Oil Corp.
333 W. Hampden Ave, P.O. Box 1677
Englewood, Colorado 80150

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Little America Chlorination System for Wastewater Pond

ENGINEER: Klane F. Forsgren
Manager, Corporate and Environmental Engineering
Sinclair Oil Corporation
550 East South Temple
Salt Lake City, Utah 84102

APPLICANT: Sinclair Oil Corporation
P.O. Box 30825
Salt Lake City, Utah 84130-0825

WATER QUALITY REFERENCE NUMBER: 94-039

REVIEWING ENGINEER: Ronald L. Ewald *RLE*

DATE OF REVIEW: March 04, 1994

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS, PROBLEMS, INADEQUACIES, and QUESTIONS:

1. General Comment - The specific requirements which a system such as this must meet are found in Chapter XI, Section 21, entitled "Disinfection". Section 6 (Engineering Design Report - EDR), and Section 7 (Plans and Specifications Content) only describe in general what type of material should be included in the EDR and specifications. The application and EDR must also address the specific requirements found in other parts of the regulations, which in this case is Section 21. Highlights of what is covered in Section 21 are as follows.

Highlights of Chapter XI, Section 21. Disinfection:

- What is the intended dosing rate of the chlorination apparatus, and how will it be controlled?
- More specs and description of the type of chlorination unit proposed need to be submitted, including make and model of the chlorination unit and how it works.

Review of Plans and Specifications

WQD Permit #94-039

March 4, 1994

Page 2

Additionally, what form of chlorine is to be used?, i.e. - chlorine gas, hypochlorite solution, or what?

- Need at least two(2) feeders according to Section 21,(a)(iii)(A).
- How is the chlorine to be stored, and is there space for at least a 30 day supply? Section 21,(a)(iii)(B)
- What is the chlorine piping material?
- What type of controls will be on this system?
- What type of housing, if any, and access control will this facility have? Section 21,(c).
- How will the safety requirements of Section 21,(d) be accomplished?

2. It is unclear from the drawings provided exactly how the chlorine will get from the source container into the water discharge pipe.

Please respond to the requirements of Section 21 in more detail.

/jn - 41015.ltr

cc: Tom Richards, P.E.
Field Engineer, Sinclair Oil Corporation
333 W. Hampden Avenue
P.O. Box 1677
Englewood, Colorado 80150

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-040R
* **CONDITIONED** *

Tharp Septic Tank/Leach Field
(Name of Facility)

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

Elmer Tharp

1115 Hwy 31

Manderson WY 82432

to install a septic tank and leach field according to the procedures and conditions of the application No. 94-040R. The facility is located in SW1/4, Section 10, T49N, R91W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

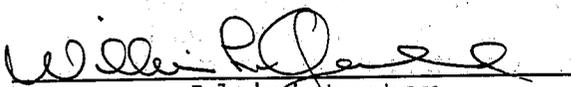
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

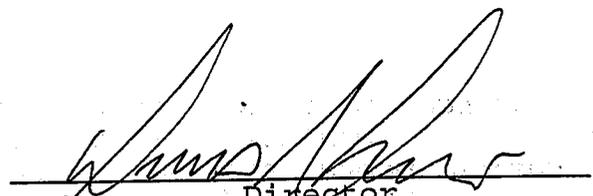
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3/18/94

Date of Issuance

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

GL/mad 41214.LTR

STANDARD CONDITIONS 1 through 4

1. of 4 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 4 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 4 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-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
4. of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-040R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. 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.

Yes

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

No

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

No

IV. Facilities not specifically covered by regulations.

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

Statement of Basis
94-040R
March 15, 1994

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

New

Permit No. 94-041R
* **CONDITIONED** *

Renewal

Modified

Williams Field Services - Echo Springs Gas Plant Evaporation Pond
(Name of Facility)

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

Williams Field Services
P.O. Box 58900
Salt Lake City, UT 84158-0900

to construct a wastewater evaporation pond according to the procedures and conditions of the application No. 94-041R. The facility is located in S½ S1 T19N R93W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

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

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

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

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

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

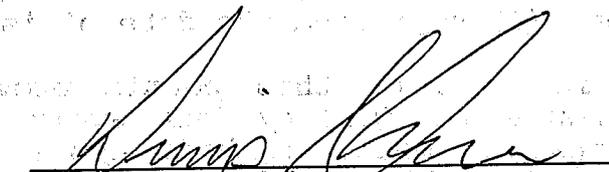
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division.



Director
Dept. of Environmental Quality

3/1/94

Date of Issuance

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

rrt

STANDARD CONDITIONS 1 through 4

1. of 4 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 4 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 4 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-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
4. of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis". A summary of the monitoring system, reporting requirements, what constitutes a permit violation, and the action required in the event of a discharge violation is given in the "Statement of Basis", item VI G.

STATEMENT OF BASIS

- I. General information.
- A. Permit Number: 94-041R
- II. Application reviewed for compliance with the following regulations.
- A. Chapter XI. Yes
- B. Chapter XII. 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.
- Yes
- B. Permit includes deviation from applicable regulations in accordance with Section 5, Chapter XI, or XII.
- No
- C. Permit based on deviation from applicable regulations in accordance with approved policy statement.
- No
- IV. Facilities not specifically covered by regulations.
- A. Identify specific sections of the regulations for which a deviation is approved and briefly summarize the regulation.
- Not Applicable
- B. Briefly state the basis for the deviation.
- Not Applicable
- C. Permit based on general or statewide deviation contained in approved policy statement.
- Not Applicable
- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III.
- Applicable

VI. If Section 15 of Chapter III is applicable, indicate the basis of determining groundwater will be protected.

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

No discharge to groundwater; lined pond to be used with a leak detection system, and secondary containment by the native impermeable soils. Additionally, no known shallow groundwater is present.

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

Not Applicable

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

Impermeable native soils will provide secondary containment beneath the lined pond and leak detection system.

D. Basis of facility design is that it will be operated so as not to violate groundwater standards. Briefly describe:

No discharge allowed by this permit, design and construction is intended to prevent leakage from the pond.

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

Not Applicable

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

Not Applicable

Statement of Basis
94-041R
February 24, 1994

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

The lined pond is to be installed with a leak detection system that is to be monitored weekly for the presence of fluid. The site has no known shallow groundwater. The presence of fluid in the leak detection system, or discharge from the pond will constitute a violation of this permit. In the event this violation occurs the Applicant shall promptly sample and test the fluid or contaminated soil for the presence of petroleum hydrocarbons, amines, or other suspected contaminants. The presence of contamination at the pond will require the Applicant to submit, for approval, an extent of contamination investigation plan to the Department of Environmental Quality, Water Quality Division (DEQ/WOD), to carry out the approved investigation plan, and based on those findings to carry out a similarly approved cleanup plan.

Quarterly summary reports of the weekly leak detection system monitoring for the presence of fluids are to be submitted to the Department of Environmental Quality, Water Quality Division, Lander office (250 Lincoln St., Lander, WY 82520). The exception to quarterly reporting is that if the presence of fluid is found in the leak detection system it shall be immediately reported to the Lander DEQ/WOD office.

It is the Applicant's responsibility to provide the necessary security at the leak detection monitoring pipe to prevent unauthorized entry, or the discharge of any substances to the leak detection system.

VII. Documentation of Statement of Basis.

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

RT/bb/40907.LTR

THE STATE



OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

June 10, 1994

LARRY & CINDY WRIGHT
P O BOX 356
WHEATLAND WY 82201

RE: PERMIT CONDITION COMPLIANCE - Construction Schedule Card
Facility: LARRY & CINDY WRIGHT SEP SYS
Permit Number: 94-042

Dear Facility Owner:

According to our records it has been over 60 days since the above referenced "Permit To Construct" was issued. One of the specified permit requirements was that the applicant/owner notify the appropriate district office of the Water Quality Division (WQD) via the post card attached to the permit, of the estimated dates that construction will begin and end. Please complete the attached post card and return it to the WQD right away. If the project has already been completed, please complete the required "CERTIFICATION OF COMPLETION" form which was included with the permit when issued.

To be in compliance with the permit these requirements must be followed. If you have any questions please call me at 777-7088.

Sincerely,

Gary Steele
SE District Supervisor
Water Quality Division

GS/nc 42467.LTR

Enclosure: Replacement Schedule Card
cc: Permit Compliance Tracking File

PERMIT TO CONSTRUCT

X New
Renewal
Modified

PERMIT NO. 94-042
SPECIAL CONDITIONS

Larry & Cindy Wright Septic System

This permit hereby authorizes the applicant:

Larry & Cindy Wright
P. O. Box 356
Wheatland, WY 82201

to construct, install or modify septic system according to the procedures and conditions of the application number 94-042. The facility is located in SE 1/4 NW 1/4 Section 18, T24N, R67W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

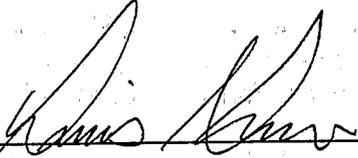
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

3-15-94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 4 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 4 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

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

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

GLS/jn - 41165.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-042

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

Yes

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

No

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

No

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

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

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 (indicate the policy number and briefly summarize the nature of the deviation).

N/A

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

N/A

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

N/A

- VII. Documentation of Statement of Basis.

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

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

33954.DOC

PERMIT TO CONSTRUCT

New

Renewal

Modified

PERMIT NO. 94-043
(SEE SPECIAL CONDITIONS)

Roness Septic System
(Name of Facility)

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

Larry and Sharon G. Roness
519 Elk Mountain Drive
Newcastle, Wyoming 82701

to construct, install or modify a septic system according to the procedures and conditions of the application No. 94-043. The septic system is located in the NE/4 of Section 35, Township 45 North, Range 61 West in the County of Weston in the State of Wyoming. This permit shall be effective for a period of one (1) year from the date of issuance of this permit.

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

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

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

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

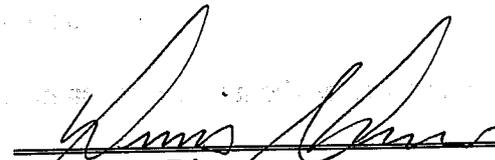
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

5/24/94

Date of Issuance

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

SPECIAL PERMIT CONDITIONS

- 1 of 4. The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project on the attached post card. The authorized representative in your area can be contacted at the following address: Wyoming DEQ/WQD, Sheridan District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.
- 2 of 4. The permittee shall provide immediate oral and/or written notification, in accordance with Section 9, Chapter III, to the Sheridan District Office of any changes or modifications to the approved permit package.
- 3 of 4. Within sixty days of completion of the authorized facility, the applicant will submit to Sheridan District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date the facility was placed in operation; and

Permit #94-043
Roness Septic System

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

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

BDM/pr:05/13/94
b/42099.ltr

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

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-043

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

A. Chapter XI. yes

B. Chapter XII. no

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

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

yes

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

no

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

no

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

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

not applicable

B. Briefly state the basis for the deviation.

not applicable

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

not applicable

- V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter 10. See footnote. (Indicate either applicable or not applicable. If not applicable delete all of section VI. from the Statement of Basis.)

not applicable

VII. Documentation of Statement of Basis.

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

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

BDM/bb/42099.ltr



THE STATE OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

May 9, 1994

CHEYENNE BOPU
2100 PIONEER
CHEYENNE WY 82001

RE: **PERMIT CONDITION COMPLIANCE** - Construction Schedule Card
Facility: PRAIRIE AVE W/S EXTENSION
Permit Number: 94-044

Dear Facility Owner:

According to our records it has been over 60 days since the above referenced "Permit To Construct" was issued. One of the specified permit requirements was that the applicant/owner notify the appropriate district office of the Water Quality Division (WQD) via the post card attached to the permit, of the estimated dates that construction will begin and end. Please complete the attached post card and return it to the WQD right away. If the project has already been completed, please complete the required "CERTIFICATION OF COMPLETION" form which was included with the permit when issued.

To be in compliance with the permit these requirements must be followed. If you have any questions please call me at 777-7088.

Sincerely,

Gary Steele
SE District Supervisor
Water Quality Division

GS/nc 42011.LTR

Enclosure: Replacement Schedule Card
cc: Permit Compliance Tracking File

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-044
SPECIAL CONDITIONS

Prairie Avenue Sewer & Water Extension

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utility
2100 Pioneer
Cheyenne, WY 82001

to construct, install or modify public water supply and wastewater facility according to the procedures and conditions of the application number 94-044. The facility is located in SE 1/4 Section 19, T14N, R66W in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

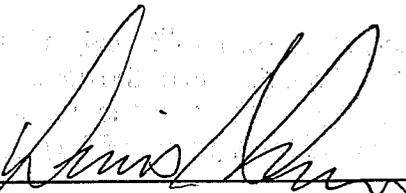
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Department of Environmental Quality

2-25-94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 6 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 6 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 6 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

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

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 The system shall maintain a minimum of 20 psi pressure under all flow conditions.

6 of 6 The fire hydrant at the end of the dead end main shall either have the drain holes plugged and appropriate dewatering operations shall be done after each use or the hydrant shall be located such that it is 10 feet horizontally from any sewer or sewer manhole.

GLS/jn - 40863.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-044

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

A. Chapter XI. Yes

B. Chapter XII. Yes

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

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

Yes

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

No

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

No

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

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

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 (indicate the policy number and briefly summarize the nature of the deviation).

N/A

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

N/A

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

N/A

- VII. Documentation of Statement of Basis.

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

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

THE STATE



OF WYOMING



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

August 3, 1994

WYCO PIPE LINE COMPANY
DRAWER "C"
EVANSVILLE WY 82636

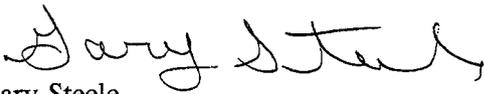
RE: **PERMIT CONDITION COMPLIANCE** - Certification of Completion
Facility: BEAR CREEK STATION
Permit Number: 94-045

Dear Facility Owner:

According to our records it has been more than 60 days past the estimated completion date for the above referenced project, and as of this date, this office has not yet received the required CERTIFICATION OF COMPLETION form. If the project has been completed, please fill out and return the enclosed Certification of Completion form as soon as possible. If your construction schedule has been delayed, please notify this office of the revised schedule and the best estimate of the new completion date.

To be in compliance with the permit these requirements must be followed. If you have any questions please call me at 777-7088.

Sincerely,


Gary Steele
SE District Supervisor
Water Quality Division

GS/nc 43272.LTR

Enclosure: Certification of Completion form
cc: Permit Compliance Tracking File

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

PERMIT NO. 94-045
SPECIAL CONDITIONS

Bear Creek Station

This permit hereby authorizes the applicant:

WYCO Pipe Line Company
Drawer "C"
Evansville, WY 82636

to construct, install or modify monitoring wells according to the procedures and conditions of the application number 94-045. The facility is located in SE 1/4 Section 6, T27N, R68W in the county of Platte, in the State of Wyoming. This permit shall be effective for a period of 2 years from the date of issuance of this permit.

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

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

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

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

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

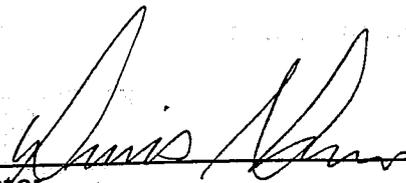
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

3-9-94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 20 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 20 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 20 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and
 - c. Certification the facility was constructed in accordance with the terms and conditions of the permit; or

- d. Certification the facility was completed with changes or modifications. Submittal of as-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.

4 of 20 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

Monitoring Well/Piezometer Conditions

- 5 of 20. The groundwater monitoring wells/piezometers shall be installed in accordance with the conditions of this permit and the plans and specifications submitted in Permit to Construct application number 94-045. Additional wells meeting the requirements of this permit may be installed if prior approval is received from the Water Quality Division (WQD).
- 6 of 20. Monitoring well/piezometer construction must meet the requirements of Chapter XI Wyoming Water Quality Rules and Regulations. Monitoring well/piezometer casings shall meet the conditions provided in Chapter XI, Section 67. All monitoring wells/piezometers must be constructed from materials free of material having the potential to contaminate groundwater samples.
- 7 of 20. All downhole equipment shall be de-contaminated between wells (borings) to minimize the potential for cross-contamination.
- 8 of 20. Borehole cuttings must be screened and disposed of properly. Contaminated cuttings must be disposed of at a site approved by the DEQ's Solid and Hazardous Waste Management Division.
- 9 of 20. Pursuant to Wyoming Water Quality Rules and Regulations, Chapter XI, Section 63(A), a deviation is hereby granted for those wells/piezometers prevented by physical limitations to adherence to the requirements on minimum depths of seal below the ground surface as detailed in Chapter XI, Part G. However, a sufficient seal shall be installed according to normal engineering practice.
- 10 of 20. After the monitoring wells/piezometers have fulfilled their useful purpose, they shall be abandoned according to procedures specified in Chapter XI, Part G, Section 70 of Wyoming Water Quality Rules and Regulations. In addition, borings in public use areas, particularly paved streets and alleys, shall be abandoned in accordance with city and/or highway department requirements. No monitoring well/piezometer shall be abandoned without prior approval from the Water Quality Division.

- 11 of 20. Well caps shall be kept locked at all times other than for monitoring purposes. Any tampering with the monitor wells/piezometers shall be reported immediately to the division. The wells shall be clearly numbered using either a stamp to permanently engrave the number into the steel top or by writing the number in the wet concrete of the base.
- 12 of 20. The applicant is responsible for obtaining any permits required by the State Engineer's Office (777-7354).
- 13 of 20. The issuance of this permit does not relieve the permittee from obligations to complete the extent of contamination study and any further remedial work which may be required. Depending on the results of the subsurface investigation, additional site investigations or remedial actions may be required by the WQD. An adequate number of wells/piezometers shall be installed to define the nature and extent of the contamination.
- 14 of 20. In addition to the well/piezometer construction information submitted with the permit application, the following items relating to well/piezometer construction shall be implemented when the wells/piezometers are constructed, installed and developed:
- a. The borehole diameter shall be at least four (4) inches larger in diameter than the casing diameter;
 - b. For water table (unconfined) aquifers, the screened interval shall extend at least two (2) feet above the highest expected groundwater level. Monitoring wells/piezometers installed in confined and semi-confined aquifers shall be constructed in accordance with Chapter XI, Section 68 of Water Quality Division Rules and Regulations. Factory screen or slotted casing is recommended for the perforated interval;
 - c. When PVC casing is used, the casing shall be installed using threaded joints, couplings, or mechanical connectors without the use of solvents or glues to hold the casing sections together;
 - d. To minimize the entrance of fine grained material into the well/piezometer, the filter pack shall be designed to be compatible with the perforation size and the geologic materials encountered within the perforated interval. The filter pack shall extend to a minimum of one (1) foot above the screened interval;
 - e. Filter pack, annular seal, and surface seal material shall be entered into the well/piezometer in a manner such that no voids or bridging occur;

- f. A minimum two (2) foot thickness of bentonite or bentonite grout is required at the top of the filter pack to serve as an annular seal. After the bentonite has been placed in the annular space, it shall be hydrated to insure a proper seal.
- g. The annular space above the bentonite seal to within one foot (1') of the surface will be sealed with Portland cement, sand-cement grout, or bentonite grout.
- h. A protective casing shall be cemented into place when the upper one (1) foot of the annular space is completed with cement, forming a concrete apron sloping away from the well/piezometer;
- i. A top and bottom cap of the same material as the well/piezometer casing shall be installed to prevent sediment and surface water from entering the well/piezometer;
- j. The monitoring well/piezometer shall be developed by the use of a pump or bailer so that representative groundwater samples can be collected;

15 of 20. DEQ/WQD personnel shall be given at least two (2) weeks notice prior to the installation of monitor wells/piezometers and sample collection so that DEQ/WQD personnel may be on site if deemed necessary.

16 of 20. A report of investigation shall be submitted to WQD within 10 days of its completion. 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, monitoring well/piezometer/borehole locations, and mean sea level elevations of the top of casing/measuring point;
- c. The permittee shall provide the exact latitude and longitude for each of the monitor wells/piezometers being constructed under this permit. These figures shall be accurate to the nearest one (1) second of latitude and longitude;
- d. Final location, construction details and lithologic logs of monitor wells/piezometers/boreholes;
- e. Geohydrologic maps and/or cross sections that clearly describe the subsurface distribution of geologic materials and groundwater occurrence;

- f. Depth to water and product thickness measurements;
- g. Sample collection procedures;
- h. Sampling analytical results;
- i. A map delineating the extent of the subsurface contamination including LNAPL (free product), soil and dissolved groundwater contamination and concentrations;
- j. A potentiometric surface map showing the direction and gradient of groundwater flow; and
- k. Interpretation of the data and conclusions of the investigation, including additional recommended investigation and remedial measures, and a schedule for implementation of these measures.

17 of 20. Proper monitoring well/piezometer evacuation shall include removal of a minimum of three (3) casing volumes prior to sampling or pumping the well/piezometer dry once, whichever occurs first. Sample collection, preservation, transportation and chemical analytical procedures shall be completed in accordance with WQD and EPA standard procedures.

18 of 20. All monitor wells/piezometers associated with this facility shall be sampled and the groundwater analyzed for the parameters indicated in the application package according to the EPA Methods:

- a. The results of these analyses shall be included in the report required under permit condition 16 and submitted to the Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 122 West 25th Street, Cheyenne, Wyoming 82002.

19 of 20. Water which is collected during monitoring well/piezometer development or sampling must be disposed of properly. The applicant must contact the city for authorization to dispose into the local storm sewer, sanitary sewer, wastewater treatment plant, or other facility.

20 of 20. The results of any analyses conducted on soil or water removed from these wells/piezometers or boreholes shall be provided to the department as soon as they are available.

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-045

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

A. Chapter XI. Yes

B. Chapter XII. No

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

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

Yes

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

No

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

No

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

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

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 (indicate the policy number and briefly summarize the nature of the deviation).

N/A

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

N/A

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

N/A

VII. Documentation of Statement of Basis.

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

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

33954.DOC

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-046R
* **CONDITIONED** *

River View Meadows Treatment Plant & Outfall
(Name of Facility)

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

River View Meadows Company

P.O. Box 847

Afton, WY 83110

to construct a two unit modular wastewater treatment plant (each rated at 20,000 gpd), and a 10 inch sewer outfall pipeline facility according to the procedures and conditions of the application No. 94-046R. The facility is located in SE ¼ Section 30, T37N, R118W in the County of Lincoln, in the State of Wyoming. This permit shall be effective for a period of 18 months from the date of issuance of this permit.

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

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

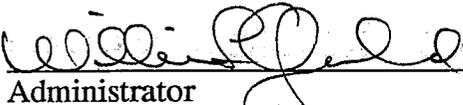
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

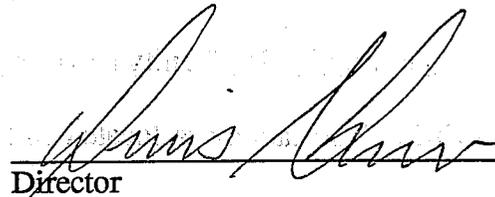
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
Department of Environmental Quality

4/8/94

Date of Issuance

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

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

Permit to Construct 94-046
River View Meadows Treatment Plant & Outfall

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-constructed 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 The wastewater treatment system capacity and capability is based upon design assumptions given in the Engineer's Design Report. Industrial flows have been assumed to be negligible in comparison with the residential flows. All industrial flows that would discharge anything other than small quantities of common domestic sanitary wastewater, must be reviewed by the plant operator and the design engineer for determination of adequate treatment capacity and treatment capability by the plant.
6. of 6 The proposed plant consists of two modular units each rated at 20,000 gpd. One unit is to be constructed initially with the second unit to be completed as needed. When buildout can be foreseen to be approaching the capacity of the initial unit, plans must be made in advance for installation of the second unit prior to exceeding the treatment capacity of the initial unit.

This permit to construct is valid for 18 months from time of issuance. If the second unit is to be installed after that period, time must be allowed in the planning to reapply for a permit to construct.

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-046R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. 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.

Yes

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

No

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

No

IV. Facilities not specifically covered by regulations.

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

Not Applicable

B. Briefly state the basis for the deviation.

Not Applicable

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

Not Applicable

V. Application requires review to determine groundwater impacts in accordance with Section 15, Chapter III. *See footnote*¹

Not Applicable

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.

RRT/nc 41482.LTR

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

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: Phase I Pilot-Scale Systems (BNRR Railyard - Casper, WY)

APPLICANT: Burlington Northern Railroad
373 Inverness Drive South
Englewood, CO 80112
(303) 220-3426

**APPLICANT'S
CONSULTANT:** Lisa Korner & Peter Guest
Engineering-Science, Inc.
1700 Broadway, Suite 900
Denver, CO 80290
(303) 831-8100

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 94-047R

EXISTING NEW AS BUILT

TITLE: Response to Comments on Phase I Pilot-Scale Systems, Burlington Northern Railroad Casper Yard, Casper, Wyoming (letter from Wyoming Department of Environmental Quality to Burlington Northern Railroad dated March 17, 1994)

PLANS SPECS PROPOSAL REPORT

DATE ON PROPOSAL/PLANS/REPORT: July 22, 1994

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING ENGINEER: *Kevin Stump for*
Phillip Stump, Senior Environmental Analyst, WQD/Cheyenne

DATE OF THIS REVIEW: September 14, 1994

ACTION: NOT AUTHORIZED FOR CONSTRUCTION: RESPONSE REQUIRED

I. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

On March 17, 1994, the Department of Environmental Quality, Water Quality Division (WDEQ/WQD) completed its technical review of the Phase I Pilot-Scale Systems proposed in the report, "*Additional Environmental Assessment and Conceptual Plan for Site Remediation*," March 1993, **Engineering-Science, Inc.** A copy of this review was mailed to Burlington Northern Railroad (BNRR).

Section II (p.2) of the Groundwater Pollution Control (GPC) Program review describes WDEQ's conclusions of the adequacy of [corrective action] work completed up until the date of the review. Namely:

1. WDEQ/WQD is very concerned that the sources of groundwater contamination continue to exist in the form of both **free product** and **contaminated soils**. Groundwater monitoring and soil boring analytical samples indicate that **free product** and **contaminated soils** continue to exist on-site.
2. WDEQ/WQD is very concerned that the migration of contaminated groundwater has not been controlled. Polycyclic Aromatic Hydrocarbons (PAHs) have been detected in the soil and groundwater downgradient from existing sources. Recent sampling indicates that PAH dissolved groundwater contamination has and continues to migrate off-site.
3. The on-site soil contamination (i.e., metals in soil, hydrocarbons in soil near east side of Parcel 2, Soil Boreholes: HC-10, HC-11, etc.) has not been delineated.

Section III (pp. 2-8) of the GPC review detailed certain **WDEQ requirements** that were to be addressed, or otherwise included, in BNRR's re-submittal of its proposed corrective action work plan. Among these were requirements to address the shortcomings of the earlier work, as mentioned above. Namely:

- III(6): **Contaminated soils** (i.e., hydrocarbons and metals) continue to exist on-site as sources of groundwater contamination. Burlington Northern Railroad shall propose a tentative plan and timetable for defining the extent, remediating and/or excavating the existing soil contamination;
- III(6)(c)(1): The extent of metal contaminated soils must be defined in the area of the former fueling track, and;
- III(6)(c)(2): The extent of hydrocarbon soil and groundwater contamination has not been defined near boring locations (HC-10 and HC-11). A plan and schedule shall be submitted to investigate the source(s) of hydrocarbon contamination (i.e., off-site source(s), previous owners within this area, etc.).

To date, BNRR has failed to provide an acceptable response to these requirements.

WDEQ has attempted to work through conference and conciliation with BNRR to resolve existing violations of the Environmental Quality Act and WDEQ/WQD rules and regulations at the Casper, Wyoming facility. BNRR is reminded that in order to continue working through conference and conciliation, WDEQ expects a good-faith effort on behalf of the regulated party. At a minimum, WDEQ considers a good-faith effort to include a complete and technically sound response to all requirements

set forth in its technical review comments, provided in a timely and diligent manner. In the event that WDEQ review comments are unclear, BNRR is encouraged to contact the reviewing official identified on the GPC form to obtain clarification.

II. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

In order to continue working through conference and conciliation, WDEQ expects BNRR to perform the following:

I. Within 45 days BNRR shall submit:

A. A plan and schedule to:

1. define the LNAPL extent of contamination and the downgradient extent of groundwater contamination;
 - a. BNRR shall sample the existing groundwater monitoring wells in the vicinity of the former refueling track area and downgradient from this area. The samples shall be analyzed for BTEX and PAHs by EPA Methods 8020 and 8270 or WDEQ/WQD approved alternate methods. **Static water levels** shall be measured concurrently with groundwater quality sampling events. If LNAPL is present in any of the monitoring wells, the elevation and thickness shall be documented.
2. define the horizontal and vertical extent of metal contamination in the soils of the refueling area and to sample the potentially affected groundwater monitoring wells in this area and analyze the groundwater samples for Total Metals (Primary Drinking Water Regulations - Inorganics), and;
3. define the horizontal and vertical extent of hydrocarbon soil contamination in the property leased to A.E. Chandler Bulk Oil Station.

A **Report of Investigation (ROI)** summarizing the subsurface investigation shall be submitted to WDEQ/WQD within sixty (60) days of completion of the sampling phase of the extent of contamination investigation. The ROI shall include the information specified in the enclosed *WDEQ/WQD Minimum Content Requirements for a Subsurface Investigation (SSI) Report of Investigation (ROI)*. This document has been enclosed with this letter to assist you in developing a plan to perform the subsurface investigation.

Plans to perform subsurface investigation work shall include the following in triplicate: schedule and description of work; sampling locations and procedures; proposed additional boring/monitoring well locations; soil and water sampling parameters; monitoring well construction schematic (i.e., cross-section); and a Chapter III Permit to Construct application form. A permit for installing monitoring wells is also required by the State Engineer's office; contact that office at (307) 777-7354.

- B. The construction plans/drawings requested in the March 17, 1994, GPC Review;
 - 1. Prior to issuing a Chapter III permit for the proposed Phase I Pilot-Scale Systems, a Professional Engineer's stamp shall appear on the title page or cover letter of the submitted application materials.

- C. A schedule for implementing the Phase I Pilot-Scale Systems (i.e., Bioventing/Air Sparging and Well Recovery Systems).

REMINDER

Failure to provide a complete and adequate response to the requests and requirements presented herein within the timeframe(s) set forth may result in formal regulatory action by WDEQ. An extension for responding to the requests and requirements presented in the Review may be granted by WDEQ, provided that the applicant submit a dated and signed written request stating the reason(s) why an extension is necessary, and the date on which the applicant will provide a complete written response to WDEQ requests and requirements. The letter of request must be submitted to the Reviewing official identified on the first page of the Review Form.

Although WDEQ is attempting to resolve all violations of the Environmental Quality Act and WDEQ Rules and Regulations through conference and conciliation, failure to comply with WDEQ requirements for approval of Site Characterization, Sampling & Analysis, and Site Remediation plans and schedules may result in a formal regulatory enforcement action including, but not limited to, the issuance of a Letter of Violation (LOV), Notice of Violation (NOV), and/or the initiation of a civil and/or criminal suit in District court.

Wyoming Statute 35-11-901 provides that any person who violates any provision of the Environmental Quality Act, or any rule, standard, permit, license or variance adopted thereunder, is liable to a penalty of up to ten thousand dollars (\$10,000) for each day during which violation continues, and which may be recovered in a civil action brought by the Attorney General in the name of the People of the State of Wyoming.

94-047



THE STATE OF WYOMING

JIM GERINGER
GOVERNOR

Department of Environmental Quality

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

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

April 4, 1995

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

Re: Report of Results of Groundwater Monitoring and Sampling at the Burlington Northern Railroad (BNRR) Casper Yard, Casper, Wyoming.

Dear Mr. Meldrum:

The Water Quality Division/Groundwater Pollution Control (GPC) program has reviewed the referenced report. Comments and requirements are summarized on the enclosed (GPC) Program review form. Please contact me directly should you have any questions about this review. Please submit future correspondence to WDEQ/WQD, Cheyenne.

Sincerely,

Phillip Stump
Phillip Stump
Senior Environmental Analyst
Water Quality Division

PS/jn - 51424.ltr

enclosures: WDEQ/WQD Minimum Content Requirements for a Subsurface Investigation (SSI) Report of Investigation (ROI)
Groundwater Pollution Control Program Review Form
Chapter III Permit to Construct Application Form

xc: Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
Lynda Fivas, WQD/Casper
IPS Section, Cheyenne
Peter Guest & Lisa Korner, Parsons Engineering Science, Inc.

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: BNRR Railyard - Casper, WY

APPLICANT: John Meldrum
Burlington Northern Railroad
373 Inverness Drive South
Englewood, CO 80112

**APPLICANT'S
CONSULTANT:** Lisa Korner & Peter Guest
Engineering-Science, Inc.
1700 Broadway, Suite 900
Denver, CO 80290

WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER: 94-047R

EXISTING NEW AS BUILT

TITLE: Report of Results of Groundwater Monitoring and Sampling at the Burlington Northern Railroad Casper Yard, Casper Wyoming

PLANS SPECS PROPOSAL REPORT

DATE ON PROPOSAL/PLANS/REPORT: March 7, 1995

IS THIS PROPOSAL SUBMITTED PURSUANT TO:

'CONDITIONS' TO ANY WQD PERMIT? NO YES

AN LOV, NOV OR OTHER ENFORCEMENT? NO YES

REVIEWING PERSONNEL: Phillip Stump, Senior Environmental Analyst, WQD/Cheyenne

DATE OF THIS REVIEW: April 4, 1995

ACTION: COMMENTS, RECOMMENDATIONS & REQUIREMENTS PROVIDED

I. CONCLUSION OF ADEQUACY OF WORK COMPLETED TO DATE:

The Department of Environmental Quality, Water Quality Division (WDEQ/WQD) has completed its review of the sampling report, "*Report of Results of Groundwater Monitoring and Sampling at the Burlington Northern Railroad Casper Yard, Casper Wyoming,*" March 7, 1995, Parsons Engineering Science, Inc.

WDEQ's conclusions of the adequacy of work completed up until the date of the review are as follows:

1. WDEQ/WQD is very concerned that the extent of the free product and dissolved constituent contamination in the groundwater has not been completely defined. The extent of contamination to the northeast and northwest of the plume area which lies to the north of monitoring wells CY-MW3 and CY-MW12, respectively, has not been defined. The extent of the plume area to the east and southeast has not been delineated in respect to the existing chlorinated solvent plume. The plume must be fully delineated and monitored in this area to determine the likelihood or not of the plumes becoming co-mingled.
2. WDEQ/WQD is very concerned that the migration of free product has not been controlled. Free product that appears to be a weathered diesel has been detected on the groundwater downgradient from known BNRR sources. The recent sampling indicates that the free product plume has spread out since the previous sampling performed by Engineering-Science (1991) and Hart Crowser (1991). It is not apparent whether the changes in plume area and thickness may be partially caused by seasonal effects (i.e., the plume appears to increase in size and thickness during a low water table).

Previous reviews and letters have stated WDEQ/WQD's concerns about defining the extent of the plume and containing the migration of groundwater contamination. The recent sampling results verify the urgent need to address the containment of free product.

To date, BNRR has failed to provide acceptable responses to these concerns.

WDEQ has attempted to work through conference and conciliation with BNRR to resolve existing violations of the Environmental Quality Act and WDEQ/WQD rules and regulations at the Casper, Wyoming facility.

II. REQUESTS/REQUIREMENTS/RECOMMENDATIONS:

In order to continue working through conference and conciliation, WDEQ expects BNRR to perform the following:

1. Within 30 days from receipt of this review, BNRR shall submit:
 - a. A plan and schedule to define the LNAPL and dissolved constituent extent of contamination;

Note: Plans to perform subsurface investigation work shall include the following in triplicate: schedule and description of work; sampling locations and procedures; proposed additional boring/monitoring well locations; soil and water

sampling parameters; monitoring well construction schematic (i.e., cross-section); and a completed Chapter III Permit to Construct application form. A permit for installing monitoring wells is also required by the State Engineer's office; contact that office at (307) 777-7354.

A report of investigation (ROI) summarizing the subsurface investigation shall be submitted to WDEQ/WQD. The ROI shall include the information specified in the enclosed *WDEQ/WQD Minimum Content Requirements for a Subsurface Investigation (SSI) Report of Investigation (ROI)*. This document has been enclosed with this letter to assist you in developing a plan to perform the subsurface investigation.

- b. A schedule for implementing the Phase I Pilot-Scale Systems (i.e., Bioventing/Air Sparging and Well Recovery Systems);
 - c. A proposed monitoring plan to measure static water levels and free product thicknesses in wells containing free product on a frequent schedule; and,
 - d. Responses to the following requirements set forth in the March 17, 1994 GPC Review that have not been satisfactorily addressed to date:
 - i. proposed plan and schedule for investigating the source(s) of the hydrocarbon soil contamination detected near the east side of Parcel 2 near soil boreholes HC-10 and HC-11 (i.e., off-site source(s), previous owners within this area, etc.); and
 - ii. proposed schedule for submitting the construction plans/drawings for the Phase I Pilot-Scale Systems requested in the previous review.
2. Within 90 days, BNRR shall submit a plan and schedule to install a containment system to contain the hydrocarbons that presently exist on-site. This plan must also address remediation of the off-site portion of the LNAPL and dissolved constituent plume.

Note: BNRR shall identify the effects, if any, which the proposed system will have on the PCE plume or known plumes from UST/LUST sites.

WDEQ/WQD UST/LUST program will be contacting you for permission to sample monitoring wells near the former AMOCO service station located northwest of the railyard. Please contact Lynda Fivas, WQD/Casper (307-473-3466) about any additional questions that you may have about UST/LUST facilities near the railyard.



MIKE SULLIVAN
GOVERNOR

Department of Environmental Quality

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

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

September 14, 1994

CERTIFIED

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

**Re: Permit to Construct #94-047R
Phase I Pilot-Scale Systems
Casper Yard**

Dear Mr. Meldrum:

The Water Quality Division/Groundwater Pollution Control (GPC) program has reviewed the referenced Permit to Construct application materials. Comments and requirements are summarized on the enclosed (GPC) Program review form. Please contact me directly should you have any questions about this review. Please submit future application materials to WDEQ/WQD, Cheyenne.

Sincerely,

Phillip Stump
Senior Environmental Analyst
Water Quality Division

PS/jn - 44157.ltr

enclosures: **WDEQ/WQD Minimum Content Requirements for a Subsurface Investigation (SSI) Report of Investigation (ROI) Groundwater Pollution Control Program Review Form Chapter III Permit to Construct Application Form**

xc: 1994 Southeast District Review Forms
Kevin Frederick, Supervisor, GPC Program, WQD/Cheyenne
Lynda Fivas, WQD/Casper
IPS Section, Cheyenne
Peter Guest & Lisa Korner, Engineering-Science, Inc.

ps: f:....\pstump\bnrr\BNRR.RV2

PERMIT TO CONSTRUCT

New

PERMIT NO. 94-048
(SEE SPECIAL CONDITIONS)

Renewal

Modified

ROMIE NUNN PARK WATERLINE EXTENSION

(Name of Facility)

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

Town of Bar Nunn
4820 N. Wardwell Industrial Avenue
Bar Nunn, Wyoming 82601

to construct, install or modify a waterline extension according to the procedures and conditions of the application No. 94-048. The waterline is located in SW 1/4 of the NW 1/4 of Section 17 Township 34 North Range 79 West in the County of Natrona in the State of Wyoming. This permit shall be effective for a period of one (1) year 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.

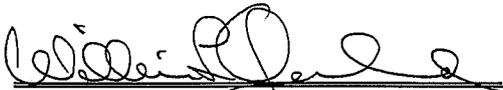
Nothing in this permit constitutes an endorsement of the construction or the design of the facility described herein. This permit indicates only that standards of design and construction required by the Environmental Quality Act have been met. The State assumes no liability for, and does not in any way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

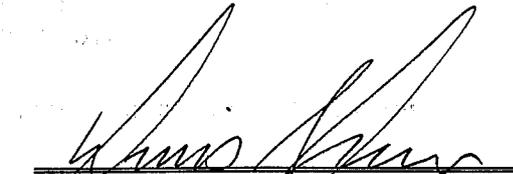
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

3-14-94

Date of Issuance

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

SPECIAL PERMIT CONDITIONS

- 1 of 4. The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project on the attached post card. The authorized representative in your area can be contacted at the following address: Wyoming DEQ/WQD, Sheridan District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.
- 2 of 4. The permittee shall provide immediate oral and/or written notification, in accordance with Section 9, Chapter III, to the Sheridan District Office of any changes or modifications to the approved permit package.
- 3 of 4. Within sixty days of completion of the authorized facility, the applicant will submit to Sheridan District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date the facility was placed in operation; and

Permit #94-019

Oil Creek Waterline Extension

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

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

BDM/pr:03/10/94

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

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-048

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

A. Chapter XI. no

B. Chapter XII. yes

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

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

no

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

no

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

no

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

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

1) Section 7 (c) (ii) of Chapter XII of the Wyoming Water Quality Rules and Regulations (WWQRR) requires profiles of all water lines to be shown on the same sheet as the plan view.

B. Briefly state the basis for the deviation.

1) The permit application plan drawing contains adequate information that the location of the proposed water line will meet the intent of the regulations. The location of special features such as valves and a fire hydrant have been called out. Minimum pipe cover has been called out in the notes section on the plan sheet. There is a lack of utilities in the area.

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

1) A general or statewide deviation does not exist in an approved policy statement.

Permit #94-019
Oil Creek Waterline Extension

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

not applicable

VII. Documentation of Statement of Basis.

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

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

b/41138.LTR

PERMIT TO CONSTRUCT

New

Renewal

Modified - CHANGE OF OWNER

PERMIT NO. 94-280
(SEE SPECIAL CONDITIONS)
REF. NO. 94-048

ROMIE NUNN PARK WATERLINE EXTENSION
(Name of Facility)

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

Wardwell Water and Sewer District
P.O. Box 728
Mills, Wyoming 82644

to construct, install or modify a waterline extension according to the procedures and conditions of the application No. 94-280. The waterline is located in SW 1/4 of the NW 1/4 of Section 17 Township 34 North Range 79 West in the County of Natrona in the State of Wyoming. This permit shall be effective for a period of one (1) year 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.

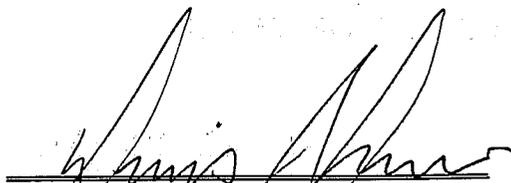
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

March 14, 1994

Date of Issuance

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

SPECIAL PERMIT CONDITIONS

- 1 of 4. The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division, the day construction commences and give an estimate of completion of the project on the attached post card. The authorized representative in your area can be contacted at the following address: Wyoming DEQ/WQD, Sheridan District Office, 2161 Coffeen Avenue, Annex, Sheridan, Wyoming 82801; telephone, 672-6457.
- 2 of 4. The permittee shall provide immediate oral and/or written notification, in accordance with Section 9, Chapter III, to the Sheridan District Office of any changes or modifications to the approved permit package.
- 3 of 4. Within sixty days of completion of the authorized facility, the applicant will submit to Sheridan District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date the facility was placed in operation; and

Permit #94-280

Romie Nunn Park Waterline Extension

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

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

BDM/pr:06/20/94
b/42584.ltr

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-280

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

A. Chapter XI. no

B. Chapter XII. yes

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

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

no

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

no

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

no

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

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

1) Section 7 (c) (ii) of Chapter XII of the Wyoming Water Quality Rules and Regulations (WWQRR) requires profiles of all water lines to be shown on the same sheet as the plan view.

B. Briefly state the basis for the deviation.

1) The permit application plan drawing contains adequate information that the location of the proposed water line will meet the intent of the regulations. The location of special features such as valves and a fire hydrant have been called out. Minimum pipe cover has been called out in the

notes section on the plan sheet. There is a lack of utilities in the area.

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

1) A general or statewide deviation does not exist in an approved policy statement.

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

not applicable

- VII. Documentation of Statement of Basis.

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

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

PERMIT TRANSFER REQUEST

DATE: 06-09-94

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

RECEIVED

JUN 14 1994

To Whom It Concerns:

WATER QUALITY DIVISION
WYOMING

(Original Owner) TOWN OF BAR NUNN intends to transfer ownership of the facility associated with Permit Number 94098 to (New Owner) WARDWELL WATER AND SEWER DISTRICT on (Date) 06-09-94. It is requested that the said permit be transferred to the new owner in accordance with Section 10 (c) and (d) of Chapter III, Wyoming Water Quality Rules and Regulations. The new owner agrees to accept and be bound by the provisions of the permit and any amendments, agrees to construct and operate the facility in accordance with the approved permit and agrees to accept responsibility for the facility's compliance with applicable standards and permit conditions, including the responsibility to perform any necessary corrective actions.

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

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

[Signature]
Signature Original Owner

Name FOR SON BEHALF OF

Address BAR NUNN
4820 N WARDWELL

INDUSTRIAL AVE.

BAR NUNN, WY 82601

Telephone 307-239-7269

[Signature] District Manager
Signature New Owner

Name WARDWELL WATER & SEWER DIST.

Address PO Box 728

Mills, WY 82644

Telephone 265-7034

Rcd
06/17/94



PERMIT TO CONSTRUCT

New
Renewal
X Modified

PERMIT NO. 94-049
SPECIAL CONDITIONS

Crest Ridge 3rd Filing

This permit hereby authorizes the applicant:

Cheyenne Board of Public Utilities
100 Pioneer Avenue
Cheyenne, WY 8001

to construct, install or modify publicly owned distribution system according to the procedures and conditions of the application number 94-049. The facility is located in NE 1/4 Section 1, T14N, R66W, in the county of Laramie, in the State of Wyoming. This permit shall be effective for a period of years from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Southeast District, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 4th Floor West, 1 West 5th Street, Cheyenne, Wyoming 800; telephone (307) 777-7781.

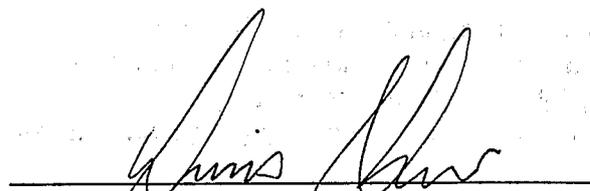
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable state law or regulation.

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

3-14-94

Date of Issuance

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

SPECIAL CONDITIONS

- 1 of 4 The applicant will notify the appropriate district office of the Water Quality Division, Department of Environmental Quality, by the attached post card of the date construction will begin and the estimated completion date.
- 2 of 4 The applicant will provide immediate oral and/or written notice to Southeast District Office in accordance with the provisions of Section 9, Chapter III, Wyoming Water Quality Rules and Regulations of any changes or modifications which are not consistent with the terms and conditions of this permit.
- 3 of 4 Within sixty days of completion of construction of the authorized facility, the applicant will submit to Southeast District Office on the form provided (CERTIFICATION OF COMPLETION), the following information:
 - a. Date that construction of the facility was completed; and
 - b. Date that the facility was placed in operation; and

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

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

GLS/mad 41104.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-049

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

A. Chapter XI. No

B. Chapter XII. Yes

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

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

Yes: This permit is for the modifications requested for the water system only. Those changes made to the sewer system have not been approved by this office.

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

No

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

No

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

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

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 (indicate the policy number and briefly summarize the nature of the deviation).

N/A

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

N/A

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

N/A

VII. Documentation of Statement of Basis.

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

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

33954.DOC

PERMIT TO CONSTRUCT

- New
 Renewal
 Modified

Permit No. 94-050R
* **CONDITIONED** *

Goton Septic Tank & Leach Field
(Name of Facility)

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

Thomas E. Goton

575 US Hqwy 14

Greybull, WY 82426

to install a septic tank and leach field according to the procedures and conditions of the application No. 94-050R. The facility is located in Tract 58, T52N, R92W in the County of Big Horn, in the State of Wyoming. This permit shall be effective for a period of two (2) years from the date of issuance of this permit.

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

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

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

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

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

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

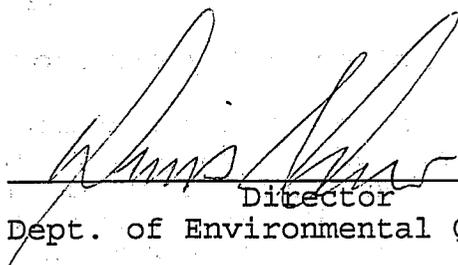
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator
Water Quality Division



Director
Dept. of Environmental Quality

8-26-94

Date of Issuance

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

STANDARD CONDITIONS 1 through 4

1. of 4 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.

Permit to Construct
94-050R
Goton SWTF
Page 3

2. of 4 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 4 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-constructed plans and specifications for the system as it was constructed, certified by an engineer if appropriate.
4. of 4 The review and approval of this permit is based upon the items identified in the attached "Statement of Basis".

GL/mad 43474.LTR

STATEMENT OF BASIS

I. General information.

A. Permit Number: 94-050R

II. Application reviewed for compliance with the following regulations.

A. Chapter XI. Yes

B. Chapter XII. 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.

Yes

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

No

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

No

IV. Facilities not specifically covered by regulations.

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

Statement of Basis
94-050R
August 17, 1994

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.