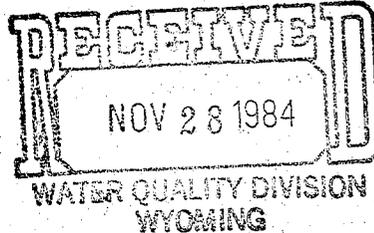


Norma

EXXON COMPANY, U.S.A.
POST OFFICE BOX 1600 • MIDLAND, TEXAS 79702-1600

PRODUCTION DEPARTMENT
MIDCONTINENT DIVISION

THOMAS J. BRIBBITT
GENERAL AFFAIRS MANAGER



November 16, 1984

Mr. Jack Bedessem
Water Quality Division
Department of Environmental Quality
210 Lincoln Street
Lander, Wyoming 82520

Dear Mr. Bedessem:

Several changes in the LaBarge Project plans have occurred within the past few months. This has resulted in significant changes in the design of ponds approved under Permit Nos 84-50RR (Sulfur Runoff Retention Pond) and 84-51RR (Evaporation Pond and Wastewater Facilities). Thus, we request that you withdraw these permits to construct and in their place consider the attached permit application for construction of sediment, wastewater, water storage and sewage treatment facilities. These facilities also will be constructed in Section 14, T22N, R112W of Lincoln County, Wyoming at the LaBarge Project Shute Creek site.

We are submitting signed application forms with three (3) copies of the application describing pond design criteria, pond construction and operation, drainage and erosion control, sediment removal, dewatering plans, and detailed plan drawings.

The application is for the following ponds:

- Sulfur Runoff Evaporation Pond
- Sewage Treatment Lagoon
- Evaporation Pond
- Tail Gas Unit (TGU) Quench Water Pond
- Firewater Pond

*replaced with
84-560
from
84-564*

In support of this application we are also including one (1) copy of each of the reports listed below. Some of the pond design and construction information presented in these reports has changed. However, the water supply and soils information is still applicable.

Banner Associates, Inc. 1983. Water supply and yield analysis for the Exxon LaBarge Project. Part one: Shute Creek plant site. Project No. 2143-01.

Dames and Moore. 1984. Report, detailed subsurface exploration, proposed Shute Creek Plant Site, Lincoln County, Wyoming, for Exxon Company, U.S.A. Job No. 08837-170-14.

State Engineer permit applications are being prepared. In addition, National Pollutant Discharge Elimination System (NPDES) information to modify Permit No. 32450 has been sent to Mr. John Wagner of the Department of Environmental Quality. The modification is for the TGU Quench Water Pond (Discharge Point 002) which will discharge to a manmade channel which flows into Shute Creek, an ephemeral stream.

If you have any questions, please contact Mr. Gary Simmons at (915/683-0539).

GHS:jb
Enclosures

*T. J. Tibbitts
by F. S. Clark*

7-31

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

CONDITIONED

Permit No. 84-51RR

MA 14699

EXXON LABARGE PROJECT EVAPORATION POND
AND WASTEWATER FACILITIES
 (Name of Facility)

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

Exxon Company, U.S.A.
Attention: T. J. Tibbits
P. O. Box 1600
Midland, Texas 79702

to construct, install, or modify a four-11 acre cells to receive plant and site waste-
waters, sewage treatment plant and collection system

facility according to the procedures and conditions of the

application No. 84-51RR. The facility is located in

Section 14, T22N, R112W

in the County of Lincoln,

in the State of Wyoming. This permit shall be effective for a period of two (2)

years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

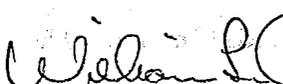
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

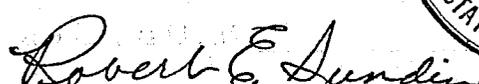
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 165 East Railroad Ave., Green River, Wyoming 82935; telephone, 875-6911.

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:


WILLIAM L. GARLAND
P.E. # 1479
Administrator
Water Quality Division
STATE OF WYOMING


ROBERT E. SUNDIN
NO. 285
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
Director
Dept. of Environmental Quality

July 19, 1984

Date of Issuance

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

* CONDITIONS ON PERMIT *

1. Water Quality Rules and Regulations Chapter XI [Sec. 28(f)ii] requires that written certification that the earthwork and line was constructed in accordance with the specifications be provided by a Wyoming Registered Professional Engineer or independent soil laboratory. Written certification shall be submitted to this office--Jack Bedessem, Department of Environmental Quality, Water Quality Division, 210 Lincoln Street, Lander, Wyoming 82520.

2. After operations begin, if any failure of the liner and/or water is noticed in the leak detection system, this office shall be notified immediately.

3. The disposal of designated hazardous wastes into this facility is prohibited. The disposal of hazardous wastes is inconsistent with design and intent of this facility.

JB:dcn

returned to ~~Shaw~~ Lander
7-17-84

Water Quality Division
Groundwater Section
Permit Application Review

Application Number

84-50R, 51R

Date Submitted For Review

7-16-84

Name and Location of Facility

EXXON-LA BARGE PROJECT
Sec 14, T 22 N, R 112 W
Lincoln Co.

I have reviewed the plans and specifications with regard to all aspects of ground-water quality and find the following:

No Comment. The submittal is consistent with current ground-water laws and requirements.

Comments attached.

The information requested by Kate Lander as submitted answers groundwater concerns.

Signed

Richard J. Lennart

Title

Eng Eval

Date

7-16-84

Approved

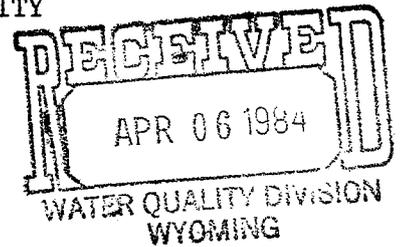
7/16/84
(Date)

ajm
(Signed)

Groundwater Control Supervisor

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
165 E. Railroad Ave.
Green River, Wyoming 82935
Phone: (307) 875-6911



PROJECT: Exxon LaBarge Project
Sedimentation Pond, Sulfur Runoff Retention Pond, Evaporation Pond

ENGINEER: E.R. Andrews
Stearns-Rogers Engineering Corp.
P. O. Box 5888
Denver, CO 80217

OWNER: Exxon Company, USA
ATTN: T. J. Tibbitts, Frank Clark
P. O. Box 1600
Midland, TX 79702

WATER QUALITY DIVISION REFERENCE NUMBER: 84-49 Sedimentation Pond
84-50 Sulfur Runoff Retention Pond
REVIEWING EVALUATOR: Jack Bedessem *JB* 84-51 Evaporation Pond
Kate Laudon (?) Sewage Treatment Plant & Collection System

DATE OF REVIEW: April 1, 1984

ACTION: Not Authorized.

COMMENTS: An initial review of your plans and specifications has been completed. The following items need to be addressed and/or resolved.

1. An application form is needed for the Sewage Treatment Plant and the Sewage Collection System. The cover letter addresses these items but the application forms submitted do not.
2. Plan and profile drawings are needed for the Sewage Treatment Plant. Since the Sewage Treatment Plant will discharge into the Evaporation Pond, only a general layout is needed. Include unit processes, piping, pump stations, and dimensions.
3. Provide a plan sheet indicating the 100 and 25 year flood planes in relation to the plant and its wastewater treatment facilities.
4. Profile drawings of the main sewage collection and feed lines are needed. Exhibit 10 needs to show the feed line(s) to the Evaporation Pond. Also, specifications are needed for the various pipe materials (gravity, pressure force main).
5. It should be noted that adequate separation distances are maintained between potable water lines and sewage lines (recommendation: 10 ft. horizontally when in parallel, 18 in. vertically when crossing).

ABC

Review of Plans and Specifications

Exxon LaBarge Project

84-49, 84-50, & 84-51

April 1, 1984

Page two

6. The general discussion of groundwater was apparently based on a study conducted by Banner Associates in 1983. Provide a copy of this report, including lithologic logs for the test wells and well completion information.
7. Evaporation Pond leak detection system. Provide geotechnical information on the native materials to be compacted in place below the leak detection system. Without specific information of the native materials it is difficult to assess the effectiveness of the leak detection system.
8. Page 78. Design calculations for the Evaporation Pond. Generally 80% of the yearly evaporation takes place during the months May to October. Provide a water balance and address whether adequate storage capacity will be available during winter months.
9. Page 30, 31, 68, 77. Runoff control (sed. pond, sulfur block runoff pond) should be dewatered after every precipitation event (with respect to NPDES requirements for the sed. pond), so that adequate capacity is available for the next precipitation event. This seemed unclear throughout the discussion.
10. Exhibit 5 indicates the sedimentation pond dewateres from the bottom of the pond (elevation 6448). The sedimentation pond should dewater such that sediment on the bottom of the pond does not carry over into the pump station.
11. Plan and details are needed showing the effluent line from the Sedimentation Pond Pump Station to the Shute Creek discharge site. Include rip-rap and discharge structure.
12. A typical water quality analyses of the runoff from the sulfur block area is needed. Address the material (specifications; compaction, permeability, etc.) to be used to construct the Sulfur Block Runoff Retention Pond.

Please submit the required information and revised drawings to this office, in triplicate. If you have any questions please feel free to contact me.

JB:mpm

cc: Kate Laudon

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor

FROM: Kate Laudon, Engineer Evaluator *KJL*

DATE: March 27, 1984

SUBJECT: Groundwater review of Exxon, LaBarge Project Permit Application for Construction of Sediment, Wastewater and Sewage Treatment Facilities. DEQ/WQD Reference Nos. 84-49, 84-50, and 84-51

Exxon has submitted permit applications for three separate facilities associated with the proposed LaBarge Gas Processing Plant. The three permit applications are contained in 1 volume and include:

WDEQ/WQD Reference No. 84-49 - a Sedimentation Pond which will detain runoff water from facilities and disturbed areas.

WDEQ/WQD Reference No. 84-50 - a Sulfur Runoff Retention Pond which will retain runoff water from within the sulfur block storage area, loadout area, and associated disturbed areas.

WDEQ/WQD Reference No. 84-51 - an Evaporation Pond which will contain excess process water, treated sanitary waste water, boiler blowdown, and contaminated water from the sedimentation pond and the sulfur runoff retention pond.

The sedimentation pond and sulfur runoff retention pond are designed to retain surface runoff, and should not pose a threat to groundwater. If water in either or these ponds is found to contain significant concentrations of contaminants, the water will be pumped to the evaporation pond.

The evaporation pond will consist of 4 symmetrical cells, each approximately 11 acres in size. A leak detection system will be constructed beneath the pond bottom. The leak detection system will be constructed by compacting the subgrade in place. The pond bottom will then be covered with 6 inches of sand bedding sloping to a collection pipe and sump. The sump will be visually inspected through a manhole for the presence of fluid. The sand layer will be covered by a membrane liner, then 6 inches of earth. A rock riprap layer will be placed on the side slopes, compatible with the membrane liner that is used.

Exxon does not propose to monitor groundwater in the vicinity of the evaporation pond. They conducted test drilling in the area, and concluded that the uppermost aquifer in the area is located in the Green River Formation at approximate depths of 800 feet. Water quality samples collected from test wells completed over this interval exceed drinking water standards for several parameters. pH is high (9.8), and boron and cadmium concentrations exceed class II standards. Exxon intends to treat water from these wells with a reverse osmosis system to make it suitable for domestic purposes at the plant.

Exxon provides a general discussion of groundwater in the report that is apparently based on a study conducted by Banner Associates, Inc. in 1983. I would like to see a copy of this report to substantiate Exxon's conclusions. At the very least, lithologic logs for the test wells should be provided, along with well completion information.

With respect to the leak detection system, Exxon is proposing to compact the native material in place. They do not provide any geotechnical information on the materials that will be excavated and compacted so it is difficult to evaluate the effectiveness of the leak detection system.

KB/nc

cc: Tony Mancini

THE STATE



OF WYOMING

A large, stylized handwritten signature, likely of Ed Herschler, the Governor of Wyoming.

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

165 EAST RAILROAD AVENUE

GREEN RIVER, WYOMING 82935

TELEPHONE 307 875-6911

March 26, 1984

Brian Pell
Air Products and Chemicals, Inc.
P. O. Box 538
Allentown, PA 18105

Re: Wastewater Collection System for Nitrogen Generating Facility
Anschutz Ranch East, Uinta County, Wyoming (DEQ/WQD No. 84-52)

Dear Mr. Pell:

As per our telephone conversation March 22, 1984 it is my understanding that the main sewer line connecting Air Products Nitrogen Generating Facility to Amoco Anschutz Ranch East wastewater treatment plant is to be constructed, owned, and operated by Amoco Production Company.

The application, plans, and information submitted by Air Products is for in-plant collection and service lines. This department does not require that a "Permit to Construct" be obtained for service line connections.

I am returning two copies of Air Products application, plans and information. The third copy will be kept for our records. Retain this letter as verification that application for "Permit to Construct" 84-52 has been withdrawn.

Note that, Amoco Production Company must obtain a "Permit to Construct" for the main sewer line. If this sewer line is constructed without a permit, this department will not allow any service connections to this line, until proper authorization has been obtained.

If you have any questions concerning this application please feel free to contact me.

Sincerely,

A handwritten signature of Jack Bedessem.
Jack Bedessem
Area III Supervisor

JB:mpm

cc: Cheyenne DEQ/WQD
Thomas Hess-Air Products
Ronald Zimmerman-Air Products
David G. Wright-Amoco Production Co. (USA)
File (2)

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-53
 SEE CONDITION
 MA 14068

Parkin Multi-Family Dwelling
 (Name of Facility)

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

Sherrie L. Parkin

708 Hyde Merrit Road

Cheyenne, WY 82009

to construct, install, or modify a subsurface wastewater treatment and disposal system for a duplex facility according to the procedures and conditions of the application No. 84-53. The facility is located in Lot 12, Block 3, Rolling Hills 3rd Filing, Section 33, T14N, R67W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

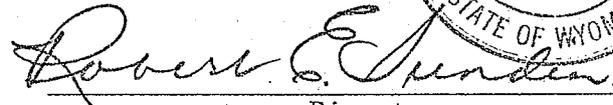
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
March 8, 1984
Date of Issuance


ROBERT E. SUNDIN
NO. 285
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
Director
Dept. of Environmental Quality

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

Condition to Permit to Construct

The permittee shall notify representatives of Laramie County Environmental Health of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. The authorized representative in your area can be contacted at the following address:

Don Pack
Laramie County Environmental Health
1700 Snyder Ave.
Cheyenne, WY 82001
Telephone: 638-8545

cc: D. M. Hopkins
D. M. Hopkins & Associates
216 East 17th Street
Cheyenne, WY 82001

3-7-84

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Parkin Multi-Family Dwelling, Laramie Co.

ARCHITECT OR ENGINEER: D.M. Hopkins, D.M. Hopkins & Assoc.
216 E. 17th St., Cheyenne, WY 82001

APPLICANT: Sherrie L. Parkin
708 Hyde Merrit Rd., Cheyenne, WY 82009

WATER QUALITY DIVISION REFERENCE NUMBER: 84-53

REVIEWING ENGINEER: Thomas S. Norman *T.S. Norman*

DATE OF REVIEW: March 2, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

An error was made in calculating the area of the drainfield. The proposed sizing is only adequate for half of the unit. The system needs to be doubled to be adequate for six bedrooms.

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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

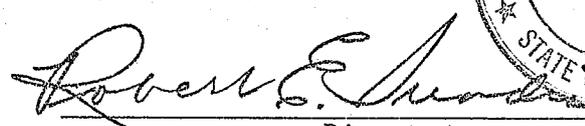
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

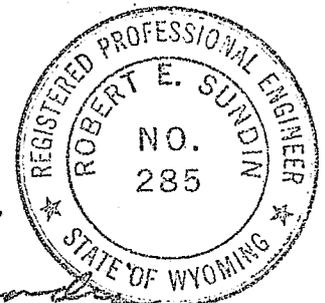



Administrator
Water Quality Division
March 19, 1988

Date of Issuance

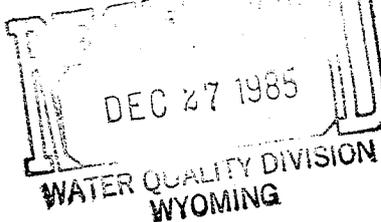


Director
Dept. of Environmental Quality



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

xc: H-W-S, Inc.
P.O. Box 727
Newcastle, WY 82701



Kerma

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 24, 1985

Phillip Essington
Rio Verde Engineering
P.O. Box 67
Pinedale, WY 82941

Dear Mr. Essington:

We have received your response that the Riley Ridge Disposal Pit has been cancelled. Your application, No. 84-55, is being returned since the applicant does not wish to proceed with the permit to construct process.

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

Sincerely,

A handwritten signature in cursive script that reads "William L. Garland".

William L. Garland
Administrator

WLG/BL/jw



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

October 28, 1985

CERTIFIED P 399 271 375

Phillip Essington
Rio Verde Engineering
P.O. Box 67
Pinedale, WY 82941

Dear Mr. Essington:

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

Facility Name: Riley Ridge Disposal Pit *Sublette Co.*
 DEQ/WQD Reference Number: 84-55
 Engineering Consultant: Riley Ridge Disposal, Inc., Box 56,
Pinedale, WY 82941
 DEQ/WQD Review Engineer: Jack Bedessem/Bill Locke
 Date of DEQ/WQD Review: 3-29-84

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

- The application will not be resubmitted as the proposed project has been cancelled.
- The application will be resubmitted within thirty (30) days.
- The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within thirty (30) days.
- Other Remarks: _____

3-29-84

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor

FROM: Kate Laudon, Engineer Evaluator *KJL*

DATE: March 28, 1984

SUBJECT: Groundwater Review, Riley Ridge Disposal Facility, WDEQ/WQD Reference Number 84-55

This permit application is for a waste drilling fluid disposal facility located in the SW1/4 SE1/4 Section 33, T30N, R113W in Sublette County.

The facility will consist of three cells, each having a capacity of 166,500 barrels, providing a total capacity of 500,000 barrels. Each of the three cells will be lined with a minimum thickness of native materials consisting of low plasticity silty clay. The permeability of the native clay was estimated to be 1.3×10^{-7} cm/sec based on a pressurized falling head permeability test.

The depth to groundwater in the vicinity is not known as there are no wells of record existing on the bench where the ponds will be constructed. Test holes were drilled to 30 feet in the area, and no water was encountered. One monitoring well is proposed downhill from the lowest cell. This well will be 30 feet deep with the 10 to 25 foot interval perforated. If groundwater is discovered in this well, samples will be collected and analyzed on a quarterly basis.

There is no information included in the application to indicate that a monitor well arbitrarily completed to 25 feet will detect seepage. It would be more appropriate to drill until an impermeable layer is encountered, that would act as a boundary to vertical flow. The monitor well should then be perforated immediately above the impermeable horizon.

cc: Tony Mancini

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
165 E. Railroad Ave.
Green River, Wyoming 82935
Phone: (307) 875-6911

PROJECT: Riley Ridge Disposal Pit

ENGINEER: Phillip Essington
Rio Verde Engineering
P. O. Box 67
Pinedale, WY 82941

OWNER: Riley Ridge Disposal, Inc.
P. O. Box 56
Pinedale, WY 82941

WATER QUALITY DIVISION REFERENCE NUMBER: 84-55

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: March 29, 1984

ACTION: Not Authorized.

COMMENTS: An initial review of your plans and specifications has been completed. The following items need to be addressed and/or resolved:

1. It is my understanding that at the time the Engineering Report was written, the test borings had not yet been completed. Item 2c states groundwater was not encountered at the elevations of the test holes.
2. It is acceptable to develop the test borings as monitoring wells, if placed in pertinent locations. If the test hole is to be used as a monitoring well, and contrary to our preliminary discussions, monitoring wells (test holes) should be drilled until an impermeable layer is encountered. The impermeable layer would act as a boundary to vertical flow. The monitoring well casing should be perforated immediately above the impermeable layer.
3. If groundwater is encountered in the test borings, background water quality analyses will need to be submitted to this office before operation commences.
4. Information is needed as to whether adequate liner compaction can be obtained on interior side slopes of 1.5 to 1. Also, Chapter 11, Water Quality Rules and Regulations require rip-rap on side slopes of 2 or more to 1. Address erosion control.

ABC

Review of Plans and Specifications

Riley Ridge Disposal Pit

84-55

March 29, 1984

Page Two

5. Construction specifications are needed for the dikes and liner (compaction, density, moisture content, grading, clearing, grubbing, thickness, lifts, permeability, testing, etc.).
6. Grading around the site should be done in a manner such that runoff is diverted away from the disposal pits.
7. The splash pad should start at the top of the dike and extend for a short distance horizontally along the bottom of the pit. A detail is needed.
8. It is recommended that flagging be installed to discourage birds and water fowl.
9. Item 5c - If a contaminated water sample is obtained from the monitoring well, this office must be notified immediately. Also, groundwater monitoring reports need to be submitted to - Tony Mancini, DEQ/Water Quality Division, 1111 East Lincolnway, Cheyenne, WY 82002, and a copy to the Green River Office.
10. Address the parameters to be analyzed for the groundwater monitoring program (recommendations - TDS, Chlorides, Phenols, Sulfides, Sulfates, Metals).

The owner of this type of facility needs to be aware that he/she is responsible for and subject to applicable Water Quality Rules, Regulations and penalties. This facility must provide adequate protection for waters of the State or this office will take appropriate actions to rectify the situation.

Please submit the required information and revised drawings to this office, in triplicate. If you have any questions please feel free to contact me.

JB:mpm

cc: Kate Laudon

307-777-7091



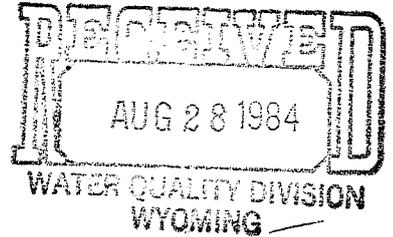
Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

August 24, 1984.



Keith McNinch
P. O. Box 633
Big Piney, WY 83112

RE: Robert Thompson Wastewater
Disposal Ponds #84-56RRR
Sublette County, Wyoming

Dear Keith:

As per your August 20, 1984 letter, this department has withdrawn application for a "Permit to Construct" No. 84-56RRR. Find enclosed a copy of all pertaining plans and correspondence.

*original
conceded*

Sincerely,

Jack Bedessem
Area III Supervisor

JB:dcn

Enclosure

cc: Robert Thompson
Cheyenne DEQ/WQD
File (2)

SURVEYOR SCHERBEL, LTD.

LAND SURVEYORS

President
AUL N. SCHERBEL
Land Surveyor

Wyoming Registration No. 164
Utah Registration No. 1670
Idaho Registration No. 3990

SCOTT A. SCHERBEL
Land Surveyor
Wyoming Registration No. 3889

Associate
KEITH E. McNINCH
Professional Engineer
Wyoming Registration No. 2846

CONSULTANTS IN

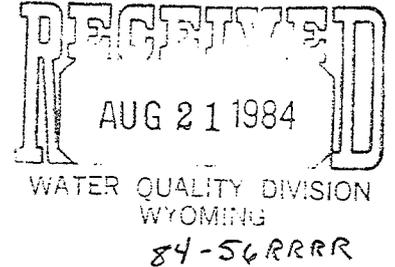
Range and Pasture Management
Soil and Water Conservation
Woodland Management
Irrigation and Water Rights
Ecology

MAIL	TELEPHONE
Box 96, Big Piney, WY 83113	307-276-3347
Box 1205, Jackson, WY 83001	307-733-2692
Box 725, Afton, WY 83110	307-886-9319

UPS - FREIGHT
283 Main Street, Marbleton, Wyoming 83113

JO ANN MAHONEY
Office Manager

20 August 1984



Jack Bedessem, Area III Supervisor
Department of Environmental Quality
Water Quality Division
210 Lincoln Street
Lander, WY 82520

Re: Robert Thompson Waste Water Disposal Pit

Dear Jack,

We understand that the Exxon Company recently submitted an application for the above project and wishes that it be processed instead of our application. This is agreeable with Robert Thompson, the owner. Therefore will you please withdraw our application.

Thank you.

Very truly yours,

SURVEYOR SCHERBEL, LTD.

Keith E. McNinch
Professional Engineer

KEM:dm

Wash. 10
Cango back to
Green River.

Returned
7-25-84

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 84-56 RR

Date Submitted For Review 6-15-84

Name and Location of Facility Robert Thomson Disposal
Pit
Sec. 1, T29N, R114W Sublette
Cty.

I have reviewed the plans and specifications with regard to all aspects of ground-water quality and find the following:

- No Comment. The submittal is consistent with current ground-water protection procedures and requirements.
- Comments attached.

I have also discussed this site over the telephone with Jack in early July.

Signed Kate Laudon
Title Engineer Evaluator
Date 7-24-84

Approved 7/24/84
(Date)

JJM
(Signed)
Groundwater Control Supervisor

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor
FROM: Kate Laudon, Engineer Evaluator *KJL*
DATE: July 25, 1984
SUBJECT: Groundwater Review, Robert Thomson Disposal Pit, WDEQ/WQD Reference Number 84-56RR

The applicant has committed to completing three monitor wells at depths depending on the depth at which the water table is encountered. Apparently they have done only a limited amount of subsurface investigation of the site. In the original submittal, the applicant states that "Depth to groundwater is estimated to be 30 feet."

I spoke with Keith McNinch on June 27, 1984 and he told me that they do not want to drill any monitor wells until they are reasonably sure that the permit will be approved.

With respect to the well casing, threaded pvc well casing should be available in the diameter specified.

Once background water samples have been collected and analyzed, all of my concerns will have been addressed.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Robert Thompson Disposal Pit

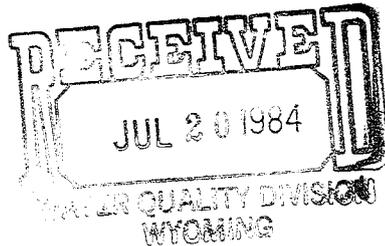
ENGINEER: Keith McNinch
P. O. Box 633
Big Piney, WY 83113

OWNER: Robert Thompson
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: #84-56RR

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: July 16, 1984



ACTION: Not authorized.

COMMENTS: A review of your June 1, 1984 response has been completed. As a result, some additional comments have been brought forth.

1. A detail of the stationary dumping hose is still needed. It is recommended that you contact the liner manufacturer for design and dumping methods.

After operations begin, solids may build up beneath the initial dumping station. To prevent excess stress from forming on the liner, you may need to move the dumping hose to another location.

2. Compaction specification - OK.

3. Liner bedding material - OK.

4. Embankment material - OK.

5. Compaction specifications - OK.

6. Monitoring well locations - OK.

7. Background water quality sampling procedures - OK. Consistent background water quality data must be collected and submitted to this office prior to operation.

8. Monitoring well construction - OK.

9. Monitoring well construction - OK.

AC

Review of Plans and Specifications
Robert Thompson Disposal Pit
July 16, 1984
Page Two

10. Monitoring well casing diameter - OK.

11. Selection, compaction and testing of embankment and liner bed material - OK.

Additional Comments:

12. The liner material (30 mils) shall be compatible with the wastewater characteristics. Also, the liner shall be protected from degradation and damage from ultraviolet light, ice, settling, solids loading, etc.

Address protection of the liner during routine operation. Written certification from the liner manufacturer addressing compatibility with the wastewater is needed.

13. The liner manufacturer should be consulted for proper installation, and operation methods. These methods need to be addressed.

Please submit the required information to this office. Please feel free to contact me with any questions.

JB:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
165 E. Railroad Ave.
Green River, Wyoming 82935
Phone: (307) 875-6911

PROJECT: Robert Thompson Disposal Pit

ENGINEER: Keith McNinch
P. O. Box 633
Big Piney, WY 83113

OWNER: Robert Thompson
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: 84-56R

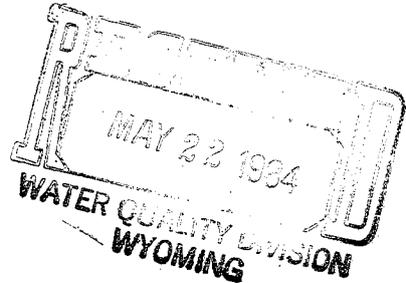
REVIEWING REEVALUATOR: Jack Bedessen, ^{JB} Jeff Hermansky ^{JH}

DATE OF REVIEW: May 18, 1984

ACTION: Not Authorized.

COMMENTS: Thank you for your response to our first review of the Robert Thompson Disposal Pit plans. Although most of the questions raised on the first review letter have been addressed, your response has brought forth some additional questions and comments. Please respond to the following:

1. A detail is needed for the stationary dumping hose.
2. Your compaction specification is not complete. What compaction standard do you propose to achieve 95% of at optimum moisture content?
3. You must be specific as to the gradation of the material that will be in contact with the Hypalon liner. Rolling gravel into the bottom and slopes is not a satisfactory method to insure that gravel of too large a size will not reach the liner. Specify the gradation and thickness of material to be placed under the liner.
4. On ponds that are to be lined with an artificial liner, rocks larger than 6 inches shall not be placed within five feet of the interior slope of any pond embankment. Material containing by volume less than 25% of rock larger than 6 inches and less than 12 inches may be placed in the remainder of the embankment.
5. I am concerned that the dikes can be compacted uniformly by the traffic of earth moving equipment. As we all know, the contractors main concern will be to get as many yards of material placed in as short a time as possible. Compaction is generally of low concern to the contractor. Therefore, a testing frequency must be specified, providing for a sufficient number to insure proper compaction of each lift.



ABC

6. One additional monitoring well will be required for a total of 3 wells. The third well should be installed outside the east dike, about in the middle of the dike length when measuring north to south.
7. In our previous review letter it was stated that background water quality analyses from the monitoring wells be submitted before operation commences. I believe it would be to everyones advantage to install the wells and draw the background samples as soon as possible. We would not like to see the operation of the pit delayed due to the need for background information.

The background water samples must be taken from each of the wells in accordance with the following outline:

- a) Each well must have 3 to 5 times the volume of the well being evacuated prior to the collection of the sample.
- b) Collect 2 samples from each well, the samples taken a week or two apart.
- c) Make a record of the static water level in each well prior to the pumping of the well for sampling.
- d) The background water samples shall be tested for the following parameters; chlorides, sulfates, total dissolved solids, phenols, oil and grease, total organic carbon, chemical oxygen demand, chromium, iron, zinc, arsenic, cadmium, barium, mercury, copper, and lead.
- e) Submit the background test results to this office for review.

Once the background concentrations are established for each parameter, the DEQ will develop a specific list of monitoring parameters to be tested for on the three month sampling schedule.

8. The space between the outside of the monitoring well casing and the wall of the drill hole should be gravel packed only to the top of the perforated section. The concrete well seal should extend down 10 feet or to the top of the gravel.
9. We would strongly recommend using PVC for well casing rather than steel since the steel pipe is subject to reaction with drilling fluids. PVC casing should be joined with screw type couplings rather than glued couplings since the glue can also effect the sample readings.

10. We recommend using smaller diameter drill holes and well casings for monitoring wells. Since three to five well hole volumes of water must be removed from each well prior to taking a sample, the small diameters will save a great deal of time and lessen the likelihood of drawing the well down to far to sample. A 4" casing would probably be a good size to use.
11. When a "Permit to Construct" is issued for this project, the permit will include a condition that the placement, compaction, and testing of all embankment and fill material be performed under the supervision of an on-site inspector.

Written certification that the earthwork was performed in accordance with the specifications shall be provided by a Wyoming registered professional engineer or an independent soils laboratory.

Please submit your response and revised plans to this office in triplicate.
Feel free to contact us if you have any questions.

cc: Kate Laudon, DEQ/WQD Cheyenne



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor
FROM: Kate Laudon, Engineer Evaluator
DATE: May 18, 1984
SUBJECT: Groundwater Review Comments on Robert Thompson Wastewater Disposal Pit, DEQ/WQD Ref. No. 84-56R

1. An additional monitor well should be installed on the eastern side of the pit.
2. At least two samples collected two weeks apart from each well will be required to establish background water quality before operations commence. These samples should be analyzed for the standard list of parameters we have for reserve pits.
3. Three to five well volumes of water should be evacuated from each well before a sample is collected. For this reason, we would accept a four inch diameter casing rather than 6 inch to reduce the amount of water necessary to purge the well.
4. We recommend that samples be filtered in the field before analysis for TDS, and all metals. An unfiltered sample can be analyzed for comparative purposes.
5. Steel casing is inappropriate for monitoring wells at this site, since steel casing can contribute metals to the water. We recommend threaded PVC casing. PVC glue can contribute organic contamination to the groundwater.
6. The well should be sealed with cement from the surface to a minimum depth of ten feet.
7. Once background water quality has been evaluated, a specific list of parameters should be established for quarterly monitoring.

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor

FROM: Kate Laudon, Engineer Evaluator *KJL*

DATE: March 28, 1984

SUBJECT: Groundwater Review, Robert Thompson Wastewater Pit, WDEQ/WQD Reference Number 84-56

This permit application is for a waste drilling fluid disposal pit located in the SW1/4 NE1/4 Section 1, T29N, R114W in Sublette County.

Percolation data submitted with the permit application are slower than expected for the floor of a gravel pit. Because the material beneath the pond is predominantly sand, and the water table is probably within 10 feet of the bottom of the pit, I think a liner should be required. The applicant has not provided liner specifications with the permit application.

Monitor wells should be placed on the upgradient and downgradient sides of the pit. They should be completed in the upper 10 feet of the saturated zone. Background water quality analyses from these wells and a monitoring plan should be submitted to WDEQ/WQD before fluid disposal commences.

cc: Tony Mancini

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
165 E. Railroad Ave.
Green River, Wyoming 82935
Phone: (307) 875-6911

PROJECT: Robert Thompson Disposal Pit

ENGINEER: Keith McNinch
P. O. Box 633
Big Piney, WY 83113

OWNER: Robert Thompson
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: 84-56

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: March 29, 1984

ACTION: Not Authorized.

COMMENTS: An initial review of your plans and specifications has been completed. The following items need to be addressed and/or resolved.

1. After reviewing the plans and information, it is suspected that the depth to groundwater is probably within 10 feet of the proposed pit bottom. Monitoring wells are needed on the upgradient and downgradient sides of the pit. The wells should be completed in the upper 10 feet of the saturated zone.

The location of the monitoring wells and the construction details need to be reviewed by this office prior to drilling. Provide approximate locations and typical construction details.

2. Background water quality analyses from these wells will need to be submitted to this office before operation commences.
3. An ongoing groundwater monitoring program will be required at this site. Propose in detail a groundwater monitoring program.
4. Sheet 1 of 1 indicates that portions of the south and east dikes are to be constructed on fill material. Dikes constructed on fill need to be keyed into the native soils. Address and detail provisions for keying the dikes.
5. It is recommended that rip-rap be used on slopes of three or more horizontal to one vertical. Address erosion and dike stabilization problems.

Review of Plans and Specifications
Robert Thompson Disposal Pit
84-56
March 29, 1984
Page Two

6. Information is needed as to the specific liner material (clay or synthetic) which is to be used. If native clays are to be used, address whether a borrow area containing adequate material is economically available.
7. Sheet 1 of 1 General Notes - Chapter 11 Water Quality Rules and Regulations stipulate that if no subsurface groundwater investigation is performed, the groundwater shall be protected from the lagoon (pit) with 3 feet of soil having a permeability of 10^{-7} cm/sec. or less or a synthetic liner.
8. Specifications are needed for construction of the dikes and liner (i.e. compaction, density, moisture content, grading, clearing, grubbing, permeability, testing, etc.)
9. Grading around the site should be done in a manner such that runoff is diverted away from the disposal pit.
10. Information is needed as to whether adequate compaction can be obtained using 12 inch lifts for dike construction. Generally 6 to 9 inch lifts are used. Chapter 11 Water Quality Rules and Regulations require that dikes and embankments shall be of relatively impervious and stable material, compact to at least 95% maximum density.
11. The splash pad should start at the top of the dike and extend for a short distance horizontally along the bottom of the pit.
12. It is recommended that flagging be installed to discourage birds and water fowl.

The owner/operator of this type of facility needs to be aware that he/she is responsible for and subject to applicable Water Quality Rules, Regulations and penalties. This facility must provide adequate protection for waters of the State or this office will take appropriate actions to rectify the situation.

Please submit the required information and revised drawings to this office, in triplicate. If you have any questions please feel free to contact me.

JB:mpm

cc: Kate Laudon
Surveyor Scherbel, Ltd.

3-20-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-57
 Ref. No. 83-508
 SEE CONDITION ON BACK
 MA 14068

Gilchrist School
 (Name of Facility)

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

Laramie County School District No. 1

2810 House Ave.

Cheyenne, WY 82001

to modify a subsurface sewage treatment and disposal system (relocation of soil absorption system approximately 60 feet N.W.) facility according to the procedures and conditions of the application No. 84-57. The facility is located in Section 25, T14N, R69W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

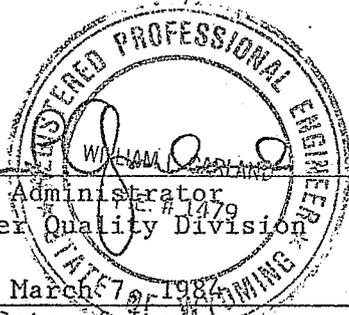
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

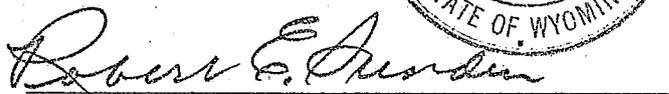
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

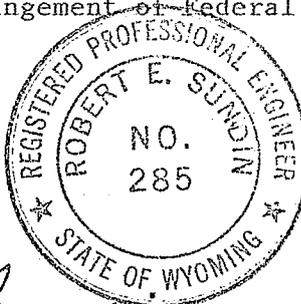
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator
Water Quality Division
March 7, 1984
Date of Issuance




Director
Dept. of Environmental Quality



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

Condition to Permit to Construct

The permittee shall notify representatives of Laramie County Environmental Health of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. The authorized representative in your area can be contacted at the following address:

Don Pack, Laramie Co. Environmental Health, 1700 Snyder Ave., Cheyenne, WY 82001
Telephone: 638-8545

cc: Peter J. Hutchison
Hutchison Engineering
1902 Thomes Ave.
Cheyenne, WY 82001

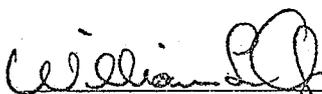
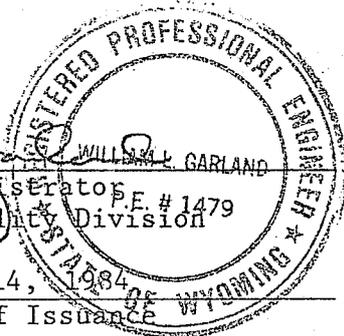
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

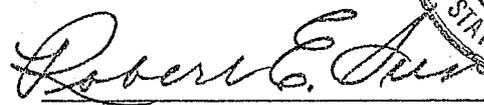
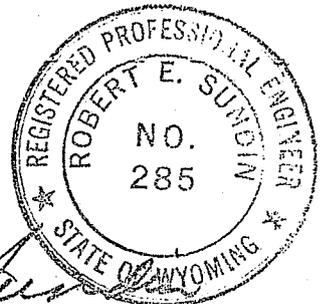
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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

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

AUTHORIZED BY:


WILLIAM P. GARLAND
Administrator P.E. # 1479
Water Quality Division
March 14, 1984
Date of Issuance



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

xc: Town of Ranchester
P.O. Box 236
Ranchester, WY 82839

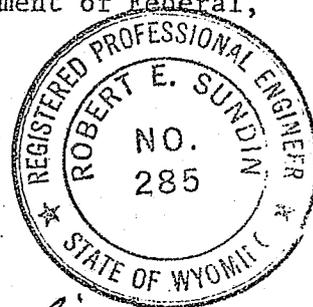
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

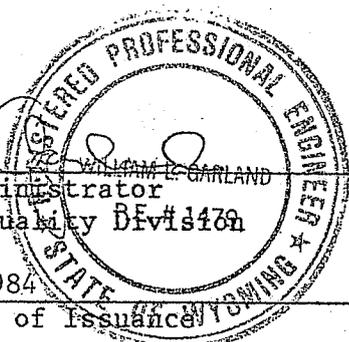
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 165 East Railroad Ave., Green River, Wyoming 82935; telephone, 875-6911.

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:




William L. Garland

Administrator
Water Quality Division
April 13, 1984

Date of Issuance

Robert E. Sundin

Director
Dept. of Environmental Quality

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

JB:mpm

cc: Roger L. Raeburn
Pacific Power & Light Co,
920 S. W. Sixth Avenue
Portland, OR 97204

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-60R
MA-14068

Saratoga Water Treatment Plant Modifications
(Name of Facility)

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

Town of Saratoga

P.O. Box 486

Saratoga, WY 82331

to construct, install, or modify a municipal water treatment plant modifications (horizontal D.E. filter) facility according to the procedures and conditions of the application No. 84-60R. The facility is located in Section 11, T17N, R84W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

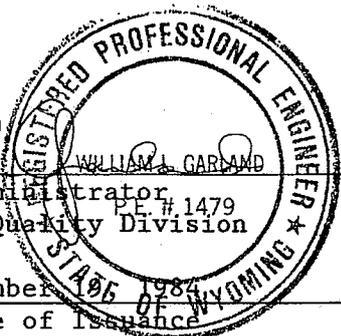
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

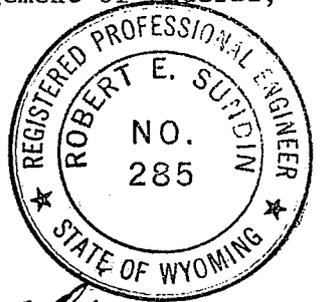
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
Administrator
Water Quality Division
P.E. # 1479
November 1984
Date of Issuance


Robert E. Sunden
Director
Dept. of Environmental Quality

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

cc: Barry Venn
Russell L. Donley & Associates, Inc.
240 South Wolcott, Suite 202
Casper, WY 82601

84-61R



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 20, 1984

Big Horn Engineering
1008 Big Horn Ave.
Worland, WY 82401

Attention: Mr. Vern Nelson

RE: Hillcrest Sewer District
Generator Question

Dear Vern:

Please accept this letter as requested written confirmation of our telecom of June 20, 1984. The Department of Environmental Quality would actually prefer seeing permanently mounted standby power generators on sewage pumping stations. The portable unit could serve a similar function, but does have the obvious disadvantage of not being instantly available. It is certainly common to see power outages at the most inconvenient of weather conditions and late evening hours.

I would like to remind you to verify your remaining Farm Loan Board Funds and Hillcrest Sewer District Funds to insure available contingencies to cover the probable additional costs involved.

Very truly yours,

Ed Baruth, P.E.
Northwest District Supervisor

EB:dcn

cc: Board of Public Utilities, Worland
City of Worland-Bob Shelton
Farm Loan Board-Gerry Placek
#84-61R File, Change Order
Norma Coulson, DEQ/WQD Cheyenne ✓

3-20-89

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-61R
MA 14089

HILLCREST SEWER COLLECTION SYSTEM
WORLAND, WYOMING
(Name of Facility)

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

Hillcrest Improvement & Service District
Washakie County Courthouse
Worland, WY 82401

to construct, install, or modify a 8" PVC sewer collection line, 4" PVC force main,
and lift station

_____ facility according to the procedures and conditions of the
application No. 84-61R. The facility is located in _____

Sections 19 & 30, T47N, R92W

_____ in the County of Washakie,
in the State of Wyoming. This permit shall be effective for a period of two (2)
years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

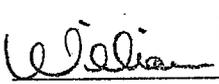
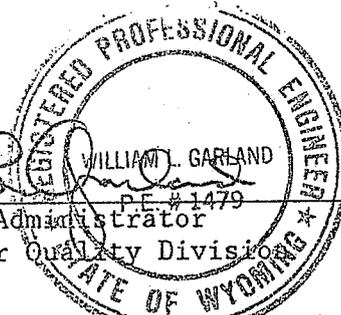
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

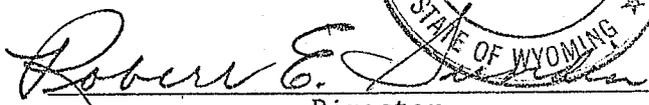
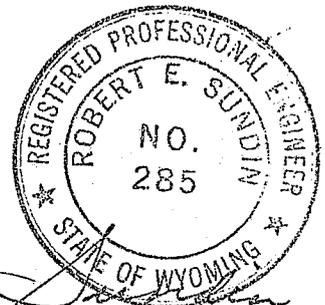
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
PE # 1479
Administrator
Water Quality Division
STATE OF WYOMING



ROBERT E. SUNDIN
NO. 285
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
Director
Dept. of Environmental Quality

March 9, 1984
Date of Issuance

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

EB:dcn

TELEPHONE REVIEW

TO: Vern Nelson, Bighorn Engineering
Hillcrest Sewer #84-61 File

FROM: Ed Baruth, P.E., Northwest District Supervisor *Ed*

DATE: March 6, 1984

SUBJECT: Plant Review--Hillcrest Sewer #84-61

I spoke with Mr. Vern Nelson of Bighorn Engineering and provided the following comments:

1. Please send us the pump curves.
2. Provide city certification (include signed cover sheets).
3. Provide PVC pipe manufacturers materials on pipe deflection.
4. Send in a new application with the applicants signature, not the design engineers signature.

EB:dcn

ABC

howa



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

January 10, 1986

Mr. Bradley J. Nelson
P.O. Box 406B
Riverton, WY 82501

Dear Mr. Nelson:

We have received your reply to our questionnaire in which you have indicated that the Spencer Subdivision Water Main Extension project #84-62 has been cancelled. Therefore, your application is being returned.

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

Sincerely,

William L. Garland
Administrator

WLG/SG/jw



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

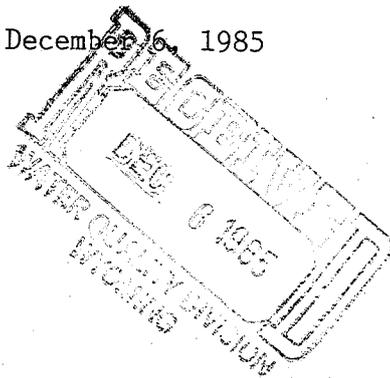
LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 6, 1985

CERTIFIED P 399 271 392

Mr. Bradley J. Nelson
P.O. Box 406B
Riverton, WY 82501



Dear Mr. Nelson:

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

Facility Name: Spencer Subdivision Water Main Extension

DEQ/WQD Reference Number: 84-62

Engineering Consultant: Brad Nelson

DEQ/WQD Review Engineer: Steve Gerber

Date of DEQ/WQD Review: April 30, 1984

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

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

 The application will be resubmitted within thirty (30) days.

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

 Other Remarks: _____

You are reminded that the construction, installation, or modification of any sewage system, treatment works, disposal system, or other facility capable of causing or contributing to pollution, or public water supply system without a Permit to Construct is a violation of Wyoming State Statutes, and is punishable with a fine not to exceed \$10,000 for each day of violation. Unless the Water Quality Division review engineer receives information concerning the status of this project within fifteen (15) days of the receipt of this letter, follow-up action will be taken.

Sincerely,



Steven P. Gerber, P.E.
Water Quality Engineer

SG/jw

MEMORANDUM

TO: Plans, #84-62R
FROM: Jeff Hermansky
DATE: April 30, 1984
SUBJECT: Phone Review



I conducted a phone review with Bradley Nelson, P.E. and told him that a 2 inch blowoff using galvanized iron pipe would be fine. However, we need three copies of the plan with the changes shown. Brad said he would send the corrected plan sheet.

JH:dcn

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Spencer Subdivision Watermain Extension

ENGINEER: Bradley J. Nelson
Rt. 1, Box 406B
Riverton, WY 82501

OWNER: North Riverton Water and Sewer District
609 Edith
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: #84-62

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: March 6, 1984

ACTION: **Not authorized.**

COMMENTS: I have reviewed your application and would like to offer the following comments for your consideration:

1. The 1 inch blowoff that is shown is too small to allow for flushing velocity of 2 ft. per second to develop in the proposed 6" main. The blowoff must be sized to allow for flushing velocity. Please show the calculations.
2. I would strongly suggest that galvanized pipe be specified for the blowoff riser pipe. Copper pipe would be much more likely to be damaged by vandalism than galvanized pipe.

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

JH:dcn

AC

3-20-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-63
 SEE CONDITION
 MA 14089

Missouri Valley Recreation Site
 (Name of Facility)

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

Shoshoni Recreation District

c/o Ed Woodward

P.O. Box 327

Shoshoni, WY 82649

to construct, install, or modify a four riser privy with 2,000 gallon collection vault facility according to the procedures and conditions of the application No. 84-63. The facility is located in Section 34, T3N, R4E in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

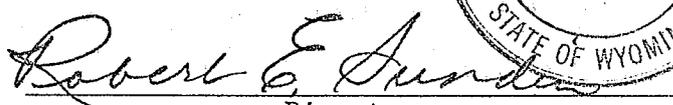
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator #1479
Water Quality Division
STATE OF WYOMING
March 5, 1984
Date of Issuance


ROBERT E. SUNDEN
NO. 285
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
Director
Dept. of Environmental Quality

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

Condition to Permit to Construct

The permittee shall notify representatives of the Fremont County Planning Office of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. The authorized representative in your area can be contacted at the following address:

Roanld A. Martin
Fremont County Planner
Room 200, Courthouse
Lander, WY 82520
Telephone: 332-5371

EB/nc

3-20-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-64
 SEE CONDITION
 MA 14089

LYSITE RECREATION SITE
 (Name of Facility)

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

Shoshoni Recreation District

c/o Ed Woodward

P.O. Box 327

Shoshoni, WY 82649

to construct, install, or modify a four riser privy with 2,000 gallon collection vault facility according to the procedures and conditions of the application No. 84-64. The facility is located in Section 7, T38N, R90W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

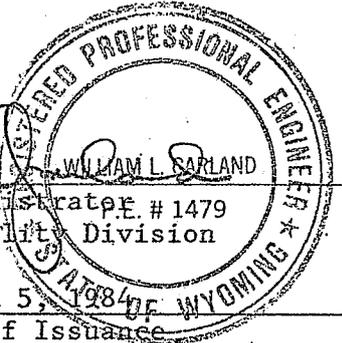
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

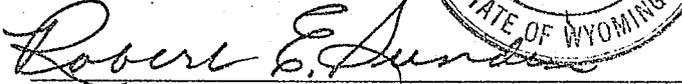
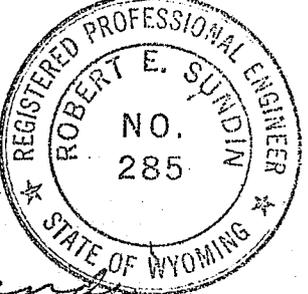
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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AUTHORIZED BY:


WILLIAM L. BARLAND
Administrator # 1479
Water Quality Division
March 5, 1984
Date of Issuance



Director
Dept. of Environmental Quality


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

Condition to Permit to Construct

The permittee shall notify representatives of the Fremont County Planning Office of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. The authorized representative in your area can be contacted at the following address:

Roanld A. Martin
Fremont County Planner
Room 200, Courthouse
Lander, WY 82520
Telephone: 332-5371

EB/nc

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-65
MA 14068

Old Baldy Club
(Name of Facility)

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

Old Baldy Club

P.O. Box 707

Saratoga, WY 82301

to construct, install, or modify a sanitary sewer facility according to the procedures and conditions of the application No. 84-65. The facility is located in Section 13, T17N, R84W and Section 18, T17N, R83W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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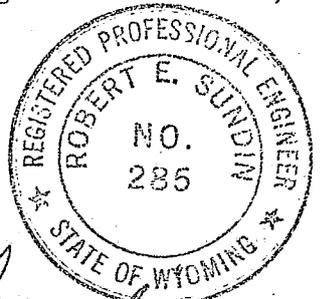
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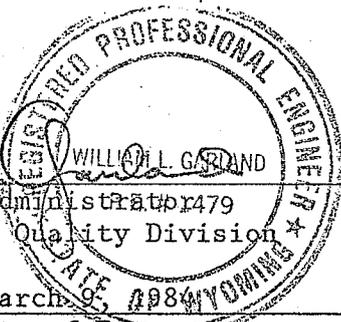
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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AUTHORIZED BY:




William L. Garland

WILLIAM L. GARLAND
Administrator 479
Water Quality Division

March 9, 1984
Date of Issuance

Robert E. Sundin

Director
Dept. of Environmental Quality

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

cc: Paul J. McCarthy, Jr.
Robert J. Smith & Assoc.
P.O. Box 1104
Rawlins, WY 82301



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

September 11, 1984

CERTIFIED MAIL #P 399 271 118

Robert C. Richardson, P.E.
165 East Tenth St.
Lovell, WY 82431

RE: Railway Street Water Main Replacement #84-66

Dear Bob:

This letter is to confirm our September 10, 1984 phone conversation regarding the installation of a new 6" fire hydrant to replace a 4" hydrant.

You stated that the 6" hydrant is in the Town's storage yard and is awaiting installation. It has not been installed since irrigation has made the groundwater high in the area.

The Town's plan is to install the new 6" hydrant after the irrigation water is shut off and the groundwater drops.

The Town of Lovell can have an extension to October 31, 1984 in which to have the fire hydrant installed. I feel that further time extensions would not be reasonable since the Town has been given more than enough time to complete the installation.

Please notify me when the installation has been completed.

Respectfully,

A handwritten signature in cursive script that reads "Jeff Hermansky".

Jeff Hermansky
Water Quality Evaluator

JH:dcn
xc: Plans #84-66
File

3-20-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-66
MA 14068

RAILWAY ST. & ALLEY REPLACEMENT WATER MAIN
(Name of Facility)

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

City of Worland
Board of Public Utilities
P. O. Box 816

Worland, WY 82401

to construct, install, or modify a 12" PVC water main, 2,460 feet long

_____ facility according to the procedures and conditions of the
 application No. 84-66. The facility is located in _____
Section 25, T47N, R92W

_____ in the County of Washakie,
 in the State of Wyoming. This permit shall be effective for a period of two (2)
 years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

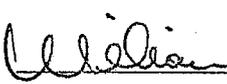
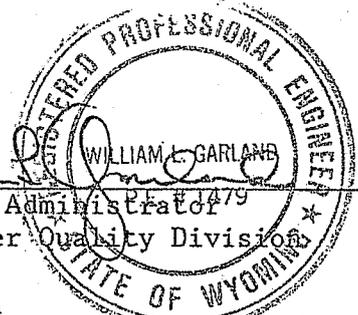
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

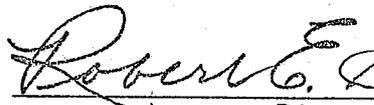
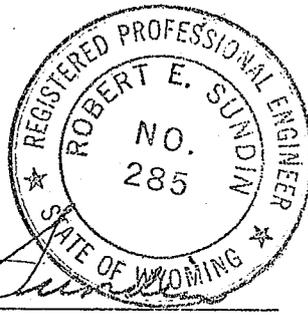
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator
Water Quality Division
STATE OF WYOMING



Director
Dept. of Environmental Quality

March 9, 1984
Date of Issuance

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

EB:den

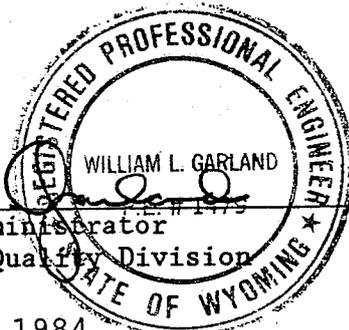
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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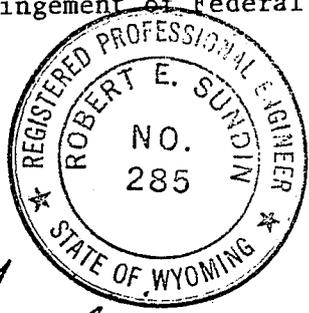
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The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal,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

AUTHORIZED BY:

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The center of the seal contains the name "WILLIAM L. GARLAND" and the number "1975".
William L. Garland

Administrator
Water Quality Division

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The center of the seal contains the name "ROBERT E. SUNGIN" and the number "285".
Robert E. Sundin

Director
Dept. of Environmental Quality

September 6, 1984
Date of Issuance

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

JH:dcn

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

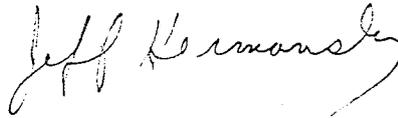
PROJECT: Roncco Mine Tipple Sedimentation Pond

ENGINEER: D. H. Emling Company
7800 E. Union Ave., Suite 420
Denver, CO 80237

OWNER: Becor, Inc.
4745 Shoshone St.
Denver, CO 80211

WATER QUALITY DIVISION REFERENCE NUMBER: #84-67R

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: May 3, 1984

ACTION: **Not authorized.**

COMMENTS: Your response to my first review letter has still left the following items in need of clarification:

1. Sheet 1 of 1 that shows the Roncco Mine sedimentation pond details indicates drainage of the undisturbed area within the permit boundary to be around the disturbed area. Please show this drainage pattern clearly on the Roncco Mine Location Map.
2. We still need to have specifications for installation procedures, fill material, compaction, testing, etc.
3. Please submit your design information showing how you determined the pond size required for the disturbed area.

Enclosed for your reference is a copy of Chapter X, "Performance/Design Standards for Surface Coal Mining Runoff Control Facilities." Please see Appendix A for minimum design standards.

Feel free to contact us if you have any questions.

JH:dcn

Enclosure

AC

~~Left~~
Returned to
Lander
4/24/84

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 84-67R

Date Submitted For Review 4/23/84

Name and Location of Facility Becor's Inks proposed
tibble area sedimentation pond,
Rouco Mines, Sec 16-44N-95W,
Hot Springs Co.

I have reviewed the plans and specifications with regard to all aspects of ground-water quality and find the following:

- No Comment. The submittal is consistent with current ground-water protection procedures and requirements.
- Comments attached.

Signed _____
Title _____
Date _____

Approved 4/24/84
(Date)

AJM
(Signed)
Groundwater Control Supervisor

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Roncco Mine Tipple Sedimentation Pond

ENGINEER: D. H. Emling
7800 E. Union (420)
Denver, CO 80237

OWNER: Becor, Inc.
4745 Shoshone St.
Denver, CO 80211

WATER QUALITY DIVISION REFERENCE NUMBER: #84-67

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: March 7, 1984

ACTION: **Not authorized.**

COMMENTS: The following questions and comments need to be addressed before a Permit to Construct can be issued:

1. Any impoundment, diversion, or use of surface or underground water must have authorization from the Wyoming State Engineer, Barrett Building, Cheyenne, Wyoming 82002 (phone 307-777-7354).

Has authorization for the proposed sedimentation pond been received?

2. A plan sheet/location map must be submitted. It must show the mine site, location of the proposed facility, waterways, drainages, topography, etc.

3. Specifications must be included for any piping, installation procedures, fill material, compaction, testing, etc.

4. Additional detail is needed for the pond dewatering and overflow pipes.

5. All plan sheets and specifications must be stamped or signed by the engineer responsible for the project.

6. Please submit 3 copies of all plans and specifications.

If you have any questions, please feel free to contact us.

JH:dcn

ABC

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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

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

AUTHORIZED BY:



Administrator
Water Quality Division
March 13, 1984
Date of Issuance

REGISTERED PROFESSIONAL ENGINEER
WILLIAM L. GARLAND
NO. 1479
STATE OF WYOMING



Director
Dept. of Environmental Quality

REGISTERED PROFESSIONAL ENGINEER
ROBERT E. SUNDIN
NO. 285
STATE OF WYOMING

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

xc: Kirk Kavanaugh
P.O. Box 568
Buffalo, WY 83834

3-28-89

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-69
SEE CONDITION
 MA 14068

American National Bank Center
 (Name of Facility)

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

Arabus Limited Partnership

515 Ivinson Avenue

Laramie, WY 82070

to construct, install, or modify a municipal water distribution and wastewater collection system facility according to the procedures and conditions of the application No. 84-69. The facility is located in SE Corner of Grand Ave. & 20th Street, Section 34, T16N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

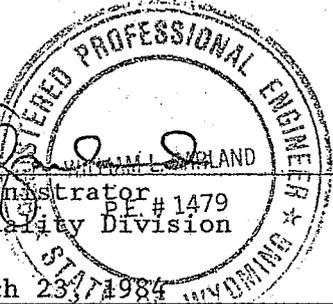
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

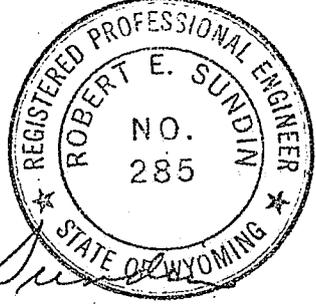
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:


Administrator
Water Quality Division
March 23, 1984
Date of Issuance


Director
Dept. of Environmental Quality

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

Condition to Permit to Construct

The floor of the meter vault shall slope to a depressed area. The depressed area shall be of adequate size to install a portable pump, when necessary, to completely drain the meter vault.

cc: Duane R. Houchin
Banner Associates, Inc.
P.O. Box 550
Laramie, WY 82070

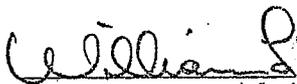
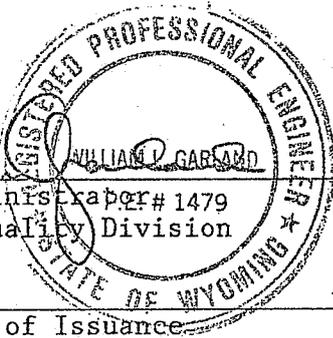
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

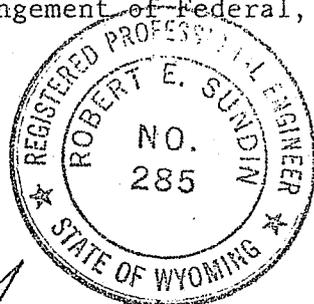
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



Adminstrator # 1479
Water Quality Division
Date of Issuance



Director
Dept. of Environmental Quality

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

EB:dcn

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-72R
MA 14068

* SEE CONDITION ON PERMIT *

BULLFROG NO. 3

(Name of Facility)

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

Coastal Oil and Gas Corporation
c/o Heitzman Drill-Site Services
P. O. Box 2361

Casper, WY 82602-2361

to construct, install, or modify a septic tank, sewage collection lines, disposal field

_____ facility according to the procedures and conditions of the

application No. 84-72R. The facility is located in _____

Section 31, T37N, R86W

_____ in the County of Natrona,

in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

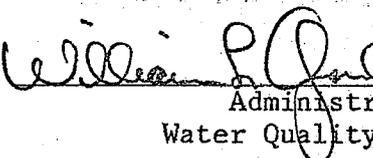
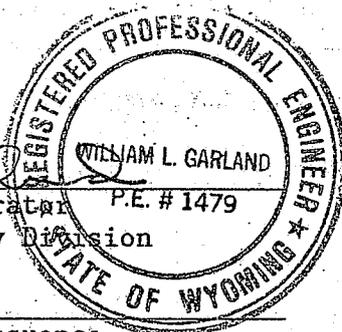
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

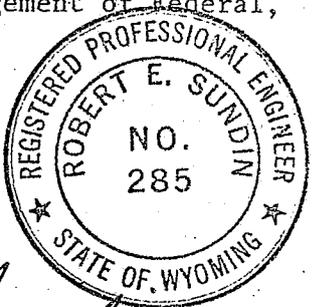
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


March 26, 1984
Date of Issuance

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

* CONDITION OF PERMIT *

The permittee shall notify the Natrona County Sanitarian of the day construction is scheduled to commence and the estimated completion date of the project. Final inspection of the installed system is required before backfilling. The Natrona County Sanitarian can be contacted at:

Nix Anderson
Natrona County Sanitarian
1200 E. 3rd
Casper, WY 82601-2990
Phone 235-9316

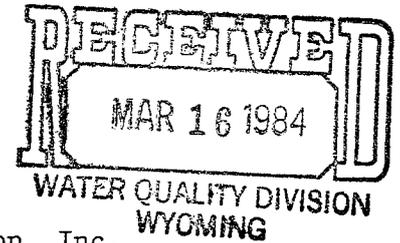
JH:dcn

xc: Nix Anderson
Chuck Davis
Max Torbert

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144



PROJECT: Bullfrog No. 3

ENGINEER: Worthington, Lenhart, Carpenter and Johnson, Inc.
632 S. David St.
Casper, WY 82601

OWNER: Coastal Oil & Gas Corp.
c/o Heitzman Drill-Site Services
P. O. Box 2361
Casper, WY 82602-2361

WATER QUALITY DIVISION REFERENCE NUMBER: #84-72

REVIEWING EVALUATOR: Jeff Hermansky

A handwritten signature in cursive script that reads "Jeff Hermansky".

DATE OF REVIEW: March 13, 1984

ACTION: Not authorized.

COMMENTS: The following questions and comments need to be addressed before a Permit to Construct can be issued:

1. Please submit details of the proposed sewer risers, cleanouts and septic tanks.
2. How many people are to be living in or served by each of the trailers and the portable toilet?
3. Show the profile of the entire length of sewer pipe. Include the ground surface elevations.
4. I don't believe the distribution piping shown in the proposed leach bed will provide for optimum distribution of the effluent. I think a grid system of piping should be specified.
5. Please send 4 copies of all plans and specifications when you respond to my review letter. The fourth copy is sent to Nix Anderson of Natrona County.

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

JH:dcn

Handwritten initials "AC" in the bottom right corner of the page.



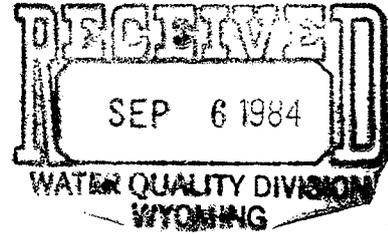
DEPARTMENT OF THE AIR FORCE
HEADQUARTERS 90TH COMBAT SUPPORT GROUP (SAC)
FRANCIS E. WARREN AIR FORCE BASE, WY 82005

84-73R

Refer

REPLY TO
ATTN OF: 90 CES/ DEEV (2Lt Christiansen)

SUBJECT: Roads/ Utilities Phase I Permit Number 84-73R



TO: District Engineer
State of Wyoming
Department of Environmental Quality, Water Quality Division
Herschler Building
122 W. 25th Street
Cheyenne, Wy. 82002

1. Per requirements of Permit No. 84-73R, the following notification is provided:

a. Construction on Roads/Utilities Phase I Project commenced on 12 July 1984.

b. The estimated completion date is 7 July 1985.

2. Refer questions to 2Lt Don Christiansen, extension 775-2650.

Don J Christiansen
DON CHRISTIANSEN, 2LT, USAF
Base Environmental Coordinator

Cy To:
SATAF/DE, ATTN Dick Riddell
AFRCE-BMS/DEEC, Norton AFB, Ca
92409, ATTN Mr. Coleman

7-20-84

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-73R
SEE CONDITIONS ATTACHED
MA 14068

Peacekeeper Support Facilities, F.E. Warren AFB - Phase 1
(Name of Facility)

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

F.E. Warren AFB Civil Engineer

90 CSG/DE

F.E. Warren AFB, WY 82005

to construct, install, or modify a public water supply distribution and wastewater collection systems facility according to the procedures and conditions of the application No. 84-73R. The facility is located in Sections 34 and 27, T14N, R67W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

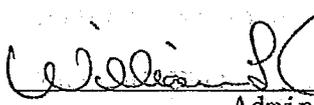
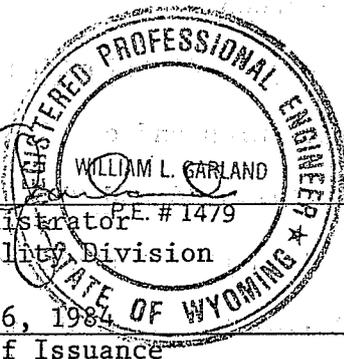
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

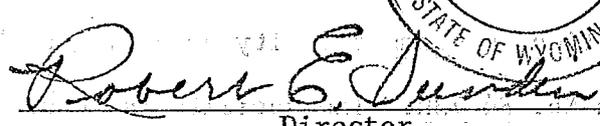
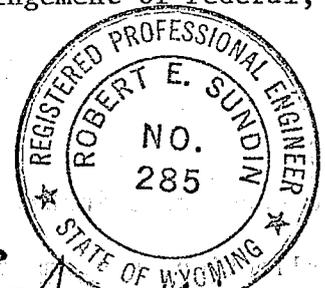
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
July 16, 1984
Date of Issuance



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality

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

cc: Jordon C. Holland
F.E. Warren AFB Civil Engineering Squadron
90 CSG/DEE
F.E. Warren AFB, WY 82005

Conditions to Permit to Construct #84-73R

1. The new Emergency Overflow Pond near the Reentry System Assembly Surveillance & Inspection Facility has not been permitted with this Permit to Construct. The new overflow pond will not require a Permit to Construct provided that it is only used as an emergency spill containment facility, in accordance with DEQ/WQD letter of February 8, 1984 to the design engineering firm, Black & Veatch Engineering Consultants.
2. Specifications Book, Section 2B, Part 2, paragraph 3.3, page 2B-3, Dewatering. If the applicant or his designated contractor is required to dewater excavations, trenches, or other parts of the work, a National Pollutant Discharge Elimination System (NPDES) permit will be required from the Water Quality Division prior to discharging any water.
3. Specifications Book, Section 2F, Part 2, paragraph 5.1.2, Ductile Iron Pipe, page 2F-3. All ductile iron water pipe shall meet the AWWA C151 specification.
4. Specifications Book, Section 2F, Part 2, paragraph 5.1.3, PVC Plastic Pipe, page 2F-4. All PVC plastic water pipe shall meet AWWA C900 specification.
5. Specification Book, Section 2F, Part 2, paragraph 5.1.4, Filament Wound Reinforced Thermosetting Resin Pipe, page 2F-4. All pipe constructed from these materials shall meet AWWA C950 specification for water pipe.
6. Specifications Book, Section 26, Part 4, paragraphs 4.1.4.2 and 4.1.4.5.2, ABS Gravity Sewer Pipe, ASTM D 2751, page 26-3. This pipe is not currently authorized for gravity sewer lines in the State of Wyoming.



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

February 8, 1984

Mr. Paul MacRoberts
Black and Veatch Engineering Consultants
PO Box 8405
Kansas City, Missouri 74114

Dear Mr. MacRoberts:

In regards to our recent telephone conversation concerning a proposed retention pond to receive fire deluge wastewater from a missile system storage area on F.E. Warren Air Force Base, Wyoming, I would offer the following comments. We understand that the only source of hazardous substances from such a fire event would be unknown amounts of the rocket propellants, monomethylhydrazine (MMH) and nitrogen tetroxide (N_2O_4). No radiological components would be present in the deluge wastewater.

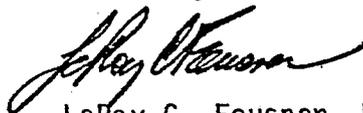
Provided that the retention pond is only a simple earthen pit which would not receive wastewater from any other base source, the Water Quality Division will not require a Permit to Construct for the pond. It is also understood, however, that the non-permitting of this pond does not relieve Air Force officials from any responsibility if waters of the State are contaminated from any wastewater contained in the pond. In the unlikely event a fire occurred in the missile storage area, we would consider the release of deluge wastewater as a discharge of a hazardous substance(s) under Chapter IV, Wyoming Water Quality Rules and Regulations, which would require immediate notification to this office by the appropriate Air Force officials. Our office would then respond to the base to ensure that adequate containment, cleanup, and disposal of all discharged fluids/debris have been properly initiated by the Air Force. Air Force officials should understand that complete immediate cleanup of any affected environs, including soils and groundwater, would be required by this office if contamination resulted from the discharged wastewater. Additionally, the Water Quality Division will require an amendment to the existing base Oil and Hazardous Substances Pollution Contingency Plan to outline what actions the base would take in the event of a discharge, and what management procedures will be implemented to help prevent unauthorized disposal of other base generated liquid wastes into the pond.

Mr. Paul MacRoberts
Page Two
February 8, 1984

If Air Force officials desire to design and construct a permanent, lined wastewater treatment pond for any base-generated wastewaters, the Water Quality Division will require a Permit to Construct application along with three complete sets of plans/specifications for our review and permit processing. The plans/specifications must carry the seal or signature of the design engineer who is licensed in the State of Wyoming. I have included copies of division guidelines for wastewater pond construction.

If there are additional comments or questions, I may be contacted at the address indicated.

Sincerely,



LeRoy C. Feusner, P.E.
Southeast District Supervisor

LCF/kb
Enclosure

cc: Lt. Robert Harvey, Bioenvironmental Engineer, USAF Hospital/SGPB,
F. E. Warren Air Force Base, Wyoming 82005
George Cormier, 90CSG/DEEU, F.E. Warren Air Force Base, Wyoming 82005

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Peacekeeper, Utilities - Phase I, F.E. Warren AFB, WY, Laramie Co.

ARCHITECT OR ENGINEER: Ray Leffler, U.S. Army Corp. of Engineers
6014 U.S. Post Office and Courthouse, Omaha, NE 68102

APPLICANT: USAF, 90 CSS/DE
F.E. Warren AFB, WY 82005

WATER QUALITY DIVISION REFERENCE NUMBER: 84-73

REVIEWING ENGINEER: LeRoy C. Feusner, P.E. 

DATE OF REVIEW: March 21, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application for a permit to construct must be completed and submitted to the Water Quality Division.
2. Provide three complete sets of both plans and USAF construction/material specifications for the utility proposal. Both the plans and specifications must carry the seal or signature of the design engineer who must be a professional engineer licensed in Wyoming. If consideration is given to using the 1984 edition of the Wyoming Public Works Standard Specifications published by the Wyoming Public Works Council, P.O. Box 32, Cheyenne, WY 82003, telephone: 307-634-9440, a simple note to that affect maybe placed on the plans. We have already reviewed those specifications, and have authorized them for use in the State of Wyoming.
3. Since these plans are only 35% complete, a thorough review by the Water Quality Division is not possible. We require final design plans/specifications for review. I have included one copy of our water/sewer/pond construction standards for your use. These documents will be used for final review and permitting by this agency.
4. Included for your review is a letter written to Black & Veatch Engineering consultants regarding the proposed overflow pond at the WSA. Please review the contents of that letter and provide us with a written statement concerning the pond construction and use. If the pond will be used for purposes other than emergency containment of fire-fighting deluge wastewater, a complete design and hydrogeological investigation will be required.
5. Provide a letter from the City of Cheyenne that they have adequate transport and treatment capacity to handle the additional wastewater loading.
6. Provide a letter from the City of Cheyenne indicating that they can adequately supply drinking water for this project at a minimum pressure of 20 psi under all conditions of flow.

84-74



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 3, 1984

Charles Plummer
Henningson, Durham and Richardson
8404 Indian Hills Drive
Omaha, Nebraska 68114

RE: Federal Sewage Works Grant C560160, Gillette, Wyoming

Dear Mr. Plummer:

I have completed review of the detail plans and specifications for the proposed wastewater treatment plant construction referenced above. These plans have also been reviewed by the U.S. Army Corps of Engineers and the Wyoming Department of Occupational Health and Safety. Comments from the Corps of Engineers review have already been transmitted and comments from the Occupational Health and Safety Review are enclosed. In addition, these plans will have to be reviewed by the Wyoming Department of Fire Prevention and Electrical Safety unless Gillette has "Home Rule" authority. Due to personnel changes in the Sheridan District Office of this Department, the district review comments have been delayed and will be forwarded at a later date.

Under EPA's revised construction grant regulations, municipalities are now eligible for 55% federal participation for wastewater facilities necessary to meet the existing needs at the time of grant award. With our current priority list and projected funding needs, we anticipate that Gillette will be provided phased grant assistance during F.Y. 86 which begins October 1, 1985. By the time of grant award, it will be necessary for Gillette to demonstrate what the existing needs are through flow records and firm commitments from satellite facilities which will be brought into the system. The funding level will be prorated to existing needs based on this information prior to grant award.

The following comments should be addressed before the plans and specs will be approved:

1. If a substantial portion of the digester gas is used for the plant heating and hot water needs, the system may be considered alternative and as such could be eligible for an increased level of funding. Currently, EPA's regulations allow an additional 20% federal participation for portions of a project considered innovative or alternative. To justify this additional funding, the following information should be provided:
 - a. The anticipated portion of the digester gas produced which will be used for the digester heat exchanger and hot water heating should be provided.

- b. A life cycle cost effective comparison with conventional building heating which demonstrates that the method proposed is the most cost-effective.
2. Will there be any method provided for gauging the flow division between units at flow splitting structures?
3. What is the long-term plans for the "existing facilities" when the "future" plant improvements are complete?
4. The method of operation of splitter structure number two is confusing from the views and pipe line labeling provided on sheet O-G-25.
5. No dimensions or elevations of the conveyor belt in the screening building have been provided. Could this cause a conflict with the dumpster size and location?
6. Why have two sand sludge beds been provided and the remainder concrete sludge beds?
7. What will be the final disposition of sludge? Portions of the sludge process system may be eligible for alternative funding if the sludge will be land applied. Sludge which will be applied to parks, golf courses, etc. must be stabilized and stored for one year.
8. The slope in the sludge drying beds should be shown on the plans.
9. What will be the final disposition of screenings and grit?
10. What is the purpose of the additional sludge pump pad and space provided in the grit building if future plans show no additional primary clarifiers.
11. Chapter XI of the DEQ Water Quality Rules and Regulations require clarifier hopper bottoms be no greater than 2 feet across. Those provided are much larger than this. The sludge removal pipe is required to be flush with the hopper bottom. The scum beaching plate is to be located on the opposite side of the clarifier from the prevailing wind.
12. What is the purpose of the telescoping valve in the sludge box?
13. Why were submersible pumps selected for pumping the 40% flow which is treated at the existing plant.
14. The location of the aeration basin drain line is not shown in section 1 of sheet 6-P-2.
15. Details of the sludge rake and skimmer design should be provided.
16. The height of the exhaust intake from the chlorine rooms is unclear. The exhaust should be continuous from near the floor. The exhaust outlet should be screened and turned downward. A complete air change 6 times per

hour is required. Emergency exhaust should provide a minimum of 30 air changes per hour.

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

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

18. I have enclosed a copy of the EPA "boiler plate" and a list of federal requirements. It is suggested the "boiler plate" be used in lieu of the format now provided which includes excerpts from the federal register.
19. There is a conflict on the amount required for a Bid Bond between pages NTB-2 and PROP-4. Federal regulations require a 5% bid bond.
20. Page GC-32 contains provisions for unfavorable weather. This should be expanded to include the method for determining unfavorable weather. EPA normally allows no project cost increases related to time extensions unless it can be shown that weather conditions were worse than normal and had a definite impact on the project critical path.
21. Provisions should be included in the specifications for the contractor to submit a project schedule and to update it regularly.
22. Any areas in the specifications which list only one recommended equipment supplier (e.g., 01062-2 blowers, aeration systems, and chlorination equipment) should include an or-equal provision.

As part of the plans and specifications review, our staff has performed a value-engineering review. The following comments were generated by this review:

1. Eligible landscaping costs will be limited to seeding and providing an irrigation system. The irrigation system provided appears extensive and should be justified.
2. Brick on block construction adds significantly to the project cost. Less costly options should be considered.
3. The administration building space which has been provided should be justified by providing projected staffing levels and needs. This also applies to lab supplies and equipment.
4. Is the large earthen mound north of the site an excavation stockpile area or imported material solely for landscaping purposes?
5. Has consideration been given to providing one building for the screening and grit removal processes instead of two?

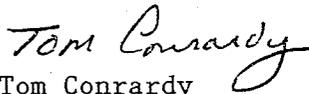
Charles Plummer
October 3, 1984
Page 4

6. Consideration should be given to having one manual screen and one mechanical screen rather than two mechanical screens.
7. Provision of skylights in buildings should be justified.

Satisfactory resolution of these comments and comments from other reviewing authorities will result in approval of plans and specifications and close out of the Step II grant, however, we will be interested in reevaluating the plans and specifications immediately prior to award of a construction grant. The purpose of the additional review is to ensure any changes to federal or state requirements are included in the documents and to determine the federal share of construction costs.

If you have any questions or comments, please contact me.

Sincerely,


Tom Conrardy
Engineering Evaluator

TC/nc

cc: City of Gillette
Sheridan District Office
Grant File



Occupational Health and Safety

CHEYENNE, WYOMING 82002

H.B. ANDERSON, M.D.
CHAIRMAN
L. KEITH HENNING
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JAMES ZANCANELLA, PH.D.
RON BAGBY

DONALD D. OWSLEY
HEALTH AND SAFETY ADMINISTRATOR
(307) 777-7786

September 10, 1984

Alan Edwards
Engineer/Grants Evaluator
Water Quality Division
Herschler Building
Cheyenne, Wyoming 82002

Dear Mr. Edwards:

Attached are our comments for the plan review for the Gillette Wastewater Treatment facility - HDR Project No. R18410306:

1. Specifications Book, Section 14301, Page 7. The mono-rails and supporting systems must be plainly and legibly marked with the safe working load, legible from the ground or floor level and must be equal to or exceed the capacity of the hoisting units. General Rules, Chapter XIV, Section 8 a.(2), page 234.
2. Specifications Book, Section 14301, Page 3 F. Wyoming rules do not provide for less than 2 wraps left on hoist drum, even with lower limit switch. General Rules, Chapter XIV, Section 3 h.(2)(c)(i), page 215.
3. Specifications Book, Section 14301, Page 7 B. Push buttons on pendant stations shall return to the off position when pressure is released by the operator (momentary contact push buttons). General Rules, Chapter XIV, Section 3 g.(3)(g), Page 214.
4. Specifications Book, Section 14301, Page 3 F. Sheaves carrying ropes which can be momentarily unloaded shall be provided with close fitting guards or other suitable devices which will guide the rope back into the grooves when the load is applied again. (Sheave guards top and bottom sheaves). General Rules, Chapter XIV, Section 3 h.(1)(b) and (c) respectively.
5. Sheet 7-A-1 - Pit level floor plan - Pit level coating with coal tar epoxy: Any use of coal tar epoxy materials must include the use of personal protective equipment due to the suspected carcinogenicity of the coal tar base and reducers. The PEL for these materials is $.2\text{mg}/\text{m}^3$. Sprav application and volitization of the material aggravates

Alan Edwards
Page 2
September 10, 1984

exposure to applicator. Recommendation: Chemical cartridge respirator with fume or high efficiency filter to PEL of $.2\text{mg}/\text{m}^3$. Gas mask with full face piece and high efficiency filter, supplied air respirator with full face piece, helmet or hood or full face SCBA at or above $.10\text{mg}/\text{m}^3$. See NIOSH/OSHA Pocket Guide to Chemical Hazards for more extensive exposures.

6. Sheet 10-A-1, South elevation - Quick drench (emergency) eyewash is apparently not protected from freezing. Location outside the chlorine room is fine; however, some means of weatherizing must be considered.
7. Sheet 10-A-1, Ground Level Floor Plan - "FE" chlorine detectors. Recommend locating on east or west wall nearer the center of the room, preferably west wall for earlier detection of chlorine leak or spill. Installation height on sheet 10-P-1 should be adequate. Earliest spill detection possible to prevent entry of personnel into a chlorine atmosphere is desirable.

I have no further comments on the plans. If I can be of further assistance, please contact the department.

Yours for employee health and safety,


For: Donald D. Owsley
Administrator

DDO:lj

3-20-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-75
 SEE CONDITIONS
 MA 14068

East Laramie County Landfill
 (Name of Facility)

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

Eastern Laramie County Landfill Board

P.O. Box 41

Burns, WY 82053

to construct, install, or modify a subsurface sewage treatment and disposal facility according to the procedures and conditions of the application No. 84-75. The facility is located in Section 29, T15N, R62W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

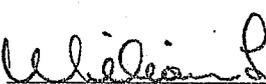
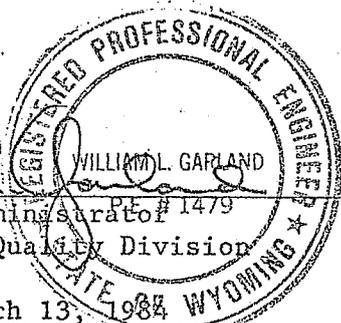
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

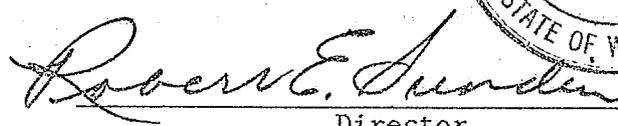
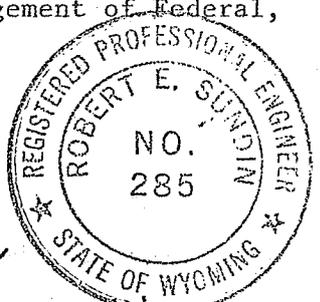
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator PE # 1479
Water Quality Division
STATE OF WYOMING
March 13, 1984
Date of Issuance



Director
Dept. of Environmental Quality

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

Condition to Permit to Construct

1. No chemical wastes shall be placed in this system.
2. The permittee shall notify representatives of the Laramie County Environmental Health of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. The authorized representative in your area can be contacted at the following address:

Don Pack, Laramie Co. Environmental Health, 1700 Snyder Ave., Cheyenne, WY
82001
Telephone: 638-8545

cc: James D. Voeller AVI, P.C. 1700 Westland Road Cheyenne, WY 82001
Solid Waste Management

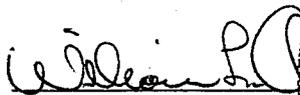
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

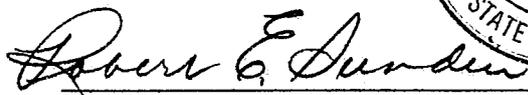
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM J. GARLAND
Administrator # 1479
Water Quality Division
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING


ROBERT E. SUNDIN
Director
Dept. of Environmental Quality
REGISTERED PROFESSIONAL ENGINEER
NO. 285
STATE OF WYOMING

January 16, 1985
Date of Issuance

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

* CONDITIONS OF PERMIT *

1. No hazardous wastes as defined by the USEPA or State of Wyoming shall be placed in this facility. Before any wastes, other than those specified by this permit, may be disposed of in this facility, authorization must be obtained from the Department of Environmental Quality, Water Quality Division.
2. Subsurface monitoring wells shall be developed according to Chapter XI Water Quality Rules and Regulations. Specifically, the annular space shall be sealed to a depth of five feet or to the top of the perforations, whichever is the least.
3. The results of all groundwater monitoring analyses shall be submitted to: Tony Mancini, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 West 25th Street, Cheyenne, Wyoming 82002--within thirty (30) days following each sampling event.

JB:dcn

cc: Kate Laudon, DEQ/WQD Cheyenne
LeRoy Feusner, DEQ/WQD Cheyenne
Janette Montgomery, Sublette County

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Ronald Ball Disposal Pond

ENGINEER: Keith McNinch
Surveyor Scherbel
P. O. Box 96
Big Piney, WY 83113

OWNER: Ronald Ball
AA Ranch
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: #84-76RR *R*

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: October 22, 1984

ACTION: **Not authorized.**

COMMENTS: A review of your September, 1984 revisions has been reviewed. The following items still remain to be addressed and resolved. Please note that all the items in this review letter are directly related to comments listed in the three previous review letters.

1. The material which you had tested for permeability was taken at 18 feet during the well drilling operation. This material (claystone bedrock) was tested by Chen and Associates to have a permeability of 2×10^{-7} cm/sec.

Clarify whether this is the material to be used for the liner or not.

2. Specify exactly what material is to be used for the liner and whether sufficient on-site quantities are available.

3. The plans need to include a detail of the pond liner (depth of excavation elevation, liner material and thickness, bed material, etc.).

4. The construction specifications need to stipulate that: written certification that the soil liner was constructed in accordance with specifications shall be submitted to this office by a Wyoming Professional Engineer or a qualified independent soil laboratory.

5. Two additional monitoring wells are required (one below the south dike and one below the east dike). The location and details for these monitoring wells must be included on the plans. Contact Kate Laudon (307-777-7781) concerning the placement and development of the monitoring wells.

ABC

Review of Plans and Specifications

Ronald Ball Disposal Pond #84-76RR

October 22, 1984

Page Two

6. Refer to GENERAL NOTES, WATER TESTING Section--The background water quality testing program appears adequate; however, the monitoring program for when after operations begin must be more detailed (i.e. parameters, notification procedures, etc.). Contact Kate Laudon or me concerning this program.

7. During my August 27, 1984 onsite inspection, water was observed in the monitoring well. The well needs to be baled relatively dry and allowed to recharge. If water is then encountered in the well, the depth to groundwater needs to be defined.

Procedures outlined in the GENERAL NOTES should be followed for determining the background water quality.

8. Address how cattle tight fencing around the disposal pond will prevent unauthorized dumpers and the disposal of hazardous or undesirable wastes.

Please submit the required information and revised drawings to this office in triplicate. If you have any questions, please feel free to contact me.

JB:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Ronald Ball Disposal Pond

ENGINEER: Keith McNinch
Surveyor Scherbel
P. O. Box 96
Big Piney, WY 83113

OWNER: Ronald Ball
AA Ranch
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: #84-76RR

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: September 4, 1984

ACTION: Not authorized.

COMMENTS: Pursuant to your July 20, 1984 response and my August 27, 1984 onsite review, the following items remain to be addressed:

1. Specifications and details are still needed for the construction of the liner (stockpiling select material, lifts compaction, moisture testing, etc.).

The construction specifications listed under GENERAL NOTES appear to be for constructing the dikes and bottom. Chapter XI Water Quality Rules and Regulations Part C stipulates that . . . if no subsurface study is performed . . . groundwater shall be protected from contamination . . . with a liner equivalent to 3 feet of material having a permeability of 10⁻⁷ cm/sec. or less. Refer to this document for details.

2. It is my understanding that a red clay will be used for constructing the liner. Address whether sufficient onsite material is available for the liner.

3. Water was observed in the monitoring well at a depth of at least 25 feet. The well should be baled and allowed to recharge. If water is then encountered in the well, the depth to groundwater should be defined and the water analyzed for background quality.

ABC

Review of Plans and Specifications
Ronald Ball Disposal Pond #84-76RR
September 4, 1984
Page Two

4. Two additional monitoring wells will be required (one below the south dike and one below the east dike). Location and details of the monitoring will be needed.
5. Address the operation of the proposed disposal pond.
 - (a) This application proposes to allow the disposal of wastewaters (reserve pit fluids and produced water) from oil and gas drilling operations. The disposal of hazardous or undesirable wastes must be prevented.
 - (b) Oil on the pond water surface will reduce the rate of evaporation. The oil will need to be periodically removed or skimmed.
 - (c) A log must be kept indicating the date, quantity, type and source of each load dumped at this facility.

Please submit the required information and revised drawings to this office in triplicate. If you have any questions, please feel free to contact me.

JB:dcn

cc: Kate Laudon

plans to go
Sent 7-2-84

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 84-76R

Date Submitted For Review 6-15-84

Name and Location of Facility Ronald Bail Waste Disposal
Pit, Sublette County
Sec. 31, T33N R 112 W.

I have reviewed the plans and specifications with regard to all aspects of ground-water quality and find the following:

- No Comment. The submittal is consistent with current ground-water protection procedures and requirements.
- Comments attached.

Signed Kate Laudon
Title Engineer Evaluator
Date 6-27-84

Approved 6/29/84
(Date)

[Signature]
(Signed)
Groundwater Control Supervisor

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor

FROM: Kate Laudon, Engineer Evaluator *KgL*

DATE: June 27, 1984

SUBJECT: Groundwater Review, Ronald Ball Disposal Pit, DEQ/WQD Ref. No. 84-76R

1. The applicant did not provide the information requested on wells located within 1 mile of the site. However, I checked the State Engineer's Records and found that there are three wells permitted to James Ball, UW-10889, 10890, and 39929 referenced in the application. The three wells are completed to depths ranging from 62 feet to 110 feet. Groundwater is under artesian pressure in two of the three. It appears that confining conditions at the site should help prevent migration of any possible contamination to these wells.
2. From the information provided with the permit application, it appears that the monitoring well has been completed correctly to detect seepage from the pond. Since no groundwater has been detected in the well yet, it should be monitored quarterly for the presence of fluids.
3. If fluid is detected in the well, then the sampling procedures outlined in the permit application should be followed. Section 2(a) of the general notes specifies that 3 to 5 times the water volume should be removed from the well before a sample is collected. The applicant states that "If the water is 15' deep this is 10 gallons each time." The well volume should be computed based on the diameter of the borehole. For a 10 inch borehole with 15' of water in it, 1 well volume is equal to about 13 gallons. I can't tell if they are proposing to remove 10 gallons each time they sample, or if 10 gallons approximates 1 well volume.

cc: Tony
Tom W.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Ronald Ball Disposal Pit

ENGINEER: Keith McNinch
Surveyor Scherbel
P. O. Box 96
Big Piney, WY 83113

OWNER: Ronald Ball
AA Ranch
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: #84-76R

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: June 9, 1984

ACTION: **Not authorized.**

COMMENTS: A review of your revised plans and specifications has been completed. The following items need to be addressed and/or resolved:

1. Verify that the material which was initially tested for permeability will be the material used for constructing the liner.
2. If after operations have begun, it is determined that erosion control is needed, rip-rap may need to be installed.
3. Chapter 11 Water Quality Rules and Regulations stipulate that:
 - (a) if no subsurface study is performed . . . groundwater shall be protected from contamination . . . with a liner equivalent to 3 feet of material having a permeability of 10^{-7} cm/sec or less.

Specifications are needed for constructing the liner, pond bottom and sides (depth of excavation, stockpiling select material, lifts, compaction, moisture content, testing, etc.).

At least one test (compaction, moisture) shall be provided per acre per lift, . . . when core sampling of the in place liner, one core of the completed liner shall be tested per acre.

- (b) written certification that the soil liner was constructed in accordance with specifications shall be submitted to this office, by a Wyoming Professional Engineer or a qualified independent soils laboratory.

Review of Plans and Specifications

Ronald Ball Disposal Pit

June 9, 1984

Page Two

4. Refer to Sheet 1 of 1 GENERAL NOTES. The section regarding Water Testing appears adequate, except that it should be specified that the monitoring well will be inspected, at least quarterly, for the presence of fluids.

5. Are the dimensions of the dike key 3 feet wide x 12 feet deep or 3 feet deep x 12 feet wide?

Please submit the required information and revised drawings to this office, in triplicate. If you have any questions, please feel free to contact me.

JB:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
165 E. Railroad Ave.
Green River, Wyoming 82935
Phone: (307) 875-6911

PROJECT: Ronald Ball Disposal Pit

ENGINEER: Keith McNinch
Surveyor Scherbel, Ltd.
P. O. Box 96
Big Piney, WY 83113

OWNER: Ronald Ball
AA Ranch
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: 84-76

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: April 3, 1984

ACTION: Not Authorized.

COMMENTS: An initial review of your plans, and specifications has been completed. The following items need to be addressed and/or resolved:

1. Three complete sets of plans, specifications and design information need to be submitted with the application.
2. Provide a log of the monitoring well and correlate the geologic information with pit bottom elevation. Depending on the geologic information a ground-water monitoring program may be required.
3. The plan sheet indicates portions of the south and east dikes are to be constructed above the natural ground surface. The dikes need to be keyed into the native soils. Address and detail provisions for keying the dikes.
4. The plan sheet indicates the northwest dike is to have a $1\frac{1}{2}$ to 1 slope. Address whether adequate compaction can be obtained on this interior slope. Chapter 11, Water Quality Rules and Regulations require rip-rap on side slopes of 2 or more to 1. Address erosion control provisions.
5. Information is needed as to whether the onsite materials will be suitable liner material. Chapter 11, Water Quality Rules and Regulations stipulate that if no subsurface groundwater investigation is performed, the groundwater shall be protected from the lagoon (pit) with 3 feet of soil having a permeability of 10^{-7} cm/sec. or less or a synthetic liner.

Review of Plans and Specifications
Ronald Ball Disposal Pit
84-76
April 3, 1984
Page Two

6. Construction specifications are needed for the dikes and liner (compaction, density, moisture content, grading, clearing, grubbing, thickness, lifts, permeability, testing, etc.).
7. Information is needed concerning any water wells within a 1 mile radius of the disposal site. Include uses, static water level, depth of well, logs.
8. Grading around the site should be done in a manner such that runoff is diverted away from the disposal pits.
9. A splash pad is needed in the area where dumping will occur. The splash pad should start at the top of the dike and extend for a short distance horizontally along the bottom of the pit.
10. It is recommended that flagging be installed to discourage birds and water fowl.
11. Address a plan of action in the event that the disposal pit fails in any way.

The owner/operator of this type of facility needs to be aware that he/she is responsible for and subject to applicable Water Quality Rules, Regulations and penalties. This facility must provide adequate protection for waters of the State or this office will take appropriate actions to rectify the situation.

Please submit the required information and revised drawings to this office, in triplicate. If you have any questions please feel free to contact me.

JB:mpm

cc: Kate Laudon

3-29-84

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor
FROM: Kate Laudon, Engineer Evaluator KJL
DATE: March 28, 1984
SUBJECT: Groundwater Review, Ronald W. Ball Wastewater Disposal Pit, WDEQ/WQD
Reference Number 84-76

This permit application is for a 4-acre waste drilling fluid disposal pit located in the SE1/4 SE1/4 Section 31, T33N, R112W.

A monitor well is shown on the construction plans. The applicant should provide geologic and hydrogeologic information to explain how the location of the monitor well was determined. This information should include:

1. Types of soils and permeabilities at the site.
2. Depth to groundwater.
3. Background water quality.
4. Direction of groundwater movement.

If no groundwater is encountered, geologic information should be provided to indicate that the proposed monitoring well will be effective to detect seepage from the ponds. Rather than arbitrarily designating a 25 foot monitor well, it would be more appropriate to drill until an impermeable layer is encountered that would act as a boundary to vertical flow. The monitor well should then be perforated immediately above the impermeable horizon.

The applicant should also provide a schedule for groundwater monitoring.

cc: Tony Mancini

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-77RR
 SEE SPECIAL CONDITION
 MA 14068

Union Pacific Railroad Tie Treatment Plant - Wastewater Treatment Works
 (Name of Facility)

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

Union Pacific Railroad

1416 Dodge Street

Omaha, NE 68179

to construct, install, or modify a industrial wastewater collection and mechanical treatment system facility according to the procedures and conditions of the application No. 84-77RR. The facility is located in Section 5, T15N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of one (1) year (five (5) years maximum) from the date of issuance of this permit.

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

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

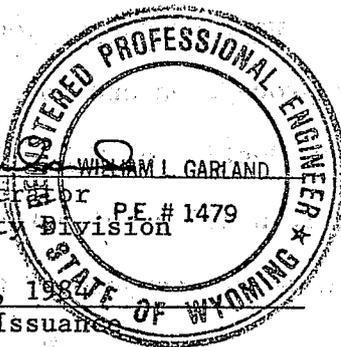
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

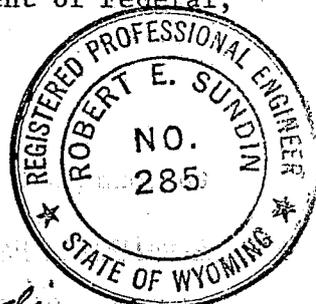
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


William L. Garland
Administered for
Water Quality Division
PE # 1479
August 1, 1982
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

Condition to Permit to Construct #84-77RR

All wastewater generated by this treatment works shall be stored on-site until a final acceptable disposal method has been authorized by the Water Quality Division.

cc: Michael J. Taylor
Canonie Engineers
6551 South Revere Parkway
Englewood, CO 80111

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Union Pacific Railroad Tie Treatment Plant, Wastewater Treatment Works, Albany Co.

ARCHITECT OR ENGINEER: Michael J. Taylor, Canonie Engineers
6551 S. Revere Parkway, Englewood, CO 80111

APPLICANT: UPRR
1416 Dodge Street, Omaha, NE 68179

WATER QUALITY DIVISION REFERENCE NUMBER: 84-77R

REVIEWING ENGINEER: LeRoy C. *LeRoy C. Feusner* P.E.

DATE OF REVIEW: July 17, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

With the application for and processing of the NPDES Discharge Permit, additional questions have been raised which need resolution prior to the issuance of a Permit to Construct.

1. I understand that the proposed Temporary Storage Facility for solids handling will no longer be constructed and used. How will solids generated by the wastewater treatment works and site excavation be disposed? Please provide a complete description.
2. The Water Quality Division will not allow the wastewater effluent from the proposed treatment works to be discharge 4000 feet south of the existing site where little contamination is known to be present. The preferred surface discharge location for the open pipe from a temporary wastewater storage facility should be in a low lying area near the Laramie River and North of the present oil recovery system. Please indicate new location for the discharge of the treated wastewater.
3. The proposed NPDES permit will require complete retention of the treated wastewater until analytical laboratory results verify discharge quality in accordance with limits stated in the permit. With all three check tanks full, the total storage capacity will be about 50,000 gallons. The total estimated volume of wastewater is approximately 740,000 gallons. If the wastewater treatment process is to be a short term operation, how will the excess treated wastewater be stored until all NPDES permit parameters have been satisfactorily met and discharge allowed? Two suggestions might be to use railroad tank car storage on site as temporary storage vessels until analytical results have been obtained, or to transport the wastewater offsite by railroad to a different UPRR treatment facility.

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: UPRR Partial Pond Closure Plan, Laramie Tie Treatment Plant, Albany Co.

ARCHITECT OR ENGINEER: CH2M Hill, Inc.
P.O. Box 22508, Denver, CO 80222

APPLICANT: UPRR
1416 Dodge Street, Omaha, NE 68179

WATER QUALITY DIVISION REFERENCE NUMBER: 84-77

REVIEWING ENGINEER: *[Signature]* LeRoy C. Feusner, P.E. and Phil Pucel *[Signature]*

DATE OF REVIEW: March 23, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

A. General Comments

1. The proposed UPRR partial pond closure plan for the Laramie Tie Treatment Plant has been submitted to the Water Quality Division for review and comment. Since this plan proposes a wastewater collection and treatment system, UPRR must apply for and receive a permit to construct from the Water Quality Division in accordance with procedures contained in Chapter 3, Wyoming Water Quality Rules and Regulations. This process will involve submission of an application for a permit to construct along with three complete sets of construction plans and specifications to this office. The plans and specifications must carry the seal or signature of the design engineer who must be a registered professional engineer licensed in the State of Wyoming. Review comments listed contained in this review document represent our first evaluation of the proposed wastewater treatment system. These items should be addressed in the next submission to this agency.
2. The proposed plan indicates that treated wastewater will be reinjected back into the alluvium below the plant site. The applicant should understand that a Groundwater Pollution Control Permit will be required by the Water Quality Division in accordance with Chapter 9, Wyoming Water Quality Rules and Regulations. The applicant must make a separate application to the Water Quality Division, as outlined in Chapter 9, for this wastewater disposal procedure.
3. If the applicant proposes to discharge any wastewater to surface waters of the State, an application must be made to the Water Quality Division for a National Pollutant Discharge Elimination System (NPDES) Permit in accordance with procedures outlined in Chapter 2, Wyoming Water Quality Rules and Regulations.

B. Modified Partial Pond Closure Plan Review Comments

1. An application for a permit to construct must be completed and submitted to the Water Quality Division.
2. Three complete sets of construction plans and specifications must be submitted to this office. Both sets of documents must carry the seal or signature of the design engineer who must be a registered professional engineer licensed in the State of Wyoming.
3. Section 3.2.2, paragraph 2, page 3-6. If this proposed treatment system is authorized and installed, contaminated alluvial material on site should be recovered and treated. The logic for the procurement and installation of the complex treatment equipment for a limited operation of known grossly contaminated areas is not clear.
4. Section 3.3.2.3, paragraph 1, page 3-19. If reinjection of the treated wastewater effluent to the alluvium is authorized by a Chapter 9 permit, discharge water quality will be determined and stated in that permit. If an infiltration bed or pond is being considered for ultimate disposal of the treated wastewater, design information, data, and plans will be required for our review in accordance with Chapter 3 procedures.
5. Section 3.3.2.4, page 3-20. Please provide the results of your pilot plant study to this office. We would also like you to determine if more than one carbon column will be required for the absorption process. It is also noted on the basic wastewater system drawing that process controls, such as unit operation return flow lines, valving for sample collection, flow meters, instrumentation, etc., have not been included. Sample analyses of the final effluent stream should also be submitted from the pilot study for all parameters which were found in the pond wastewater.
6. Section 3.4.1, page 3-22. Provide complete engineering drawings for the proposed solidified dike material/residues storage facility, including details on the leachate collection system. How will surface runoff be kept off site? How will any collected leachate be handled? How long will the materials be expected to remain on site? How will the hypalon cover be secured over the material for a specified time period? Provide information and data to indicate that the proposed clay liner is compatible with these organic wastes and will not allow vertical percolation which could further threaten waters of the State.
7. Section 3.4.2, page 3-23. What parameters will be analyzed in the wastewater treatment effluent prior to a storage facility? Provide detail drawings for the effluent wastewater line and the storage facility.
8. Section 3.7, page 3-26. How will equipment decontamination fluids be collected for treatment in the proposed system?



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

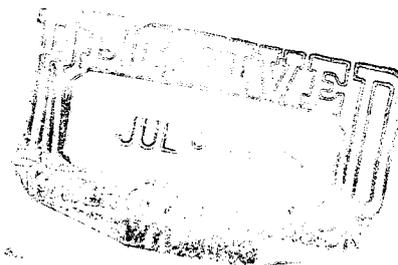
210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

July 19, 1984

Buell, Winter, Mousel and Associates
123 West First Street
Casper, WY 82601



Attention: Mr. Phillip Stuckert

RE: Manderson School Wastewater Facility Sewage Lift Station. Alternative
Change Order to No. 84-78RR.

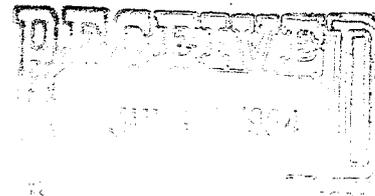
Dear Mr. Stuckert:

Please accept this letter as verification that DEQ has reviewed the proposal to use the Gorman - Rupp suction lift pump station. This department will "take no exception" to the installation.

Thank you for the chance to review the shop drawings.

Very truly yours,

Ed Baruth
Northwest District Supervisor



ED:bah

xc: Norma Coulson w/enclosure for archives
Jake Strohmán ✓
File

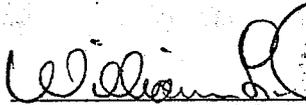
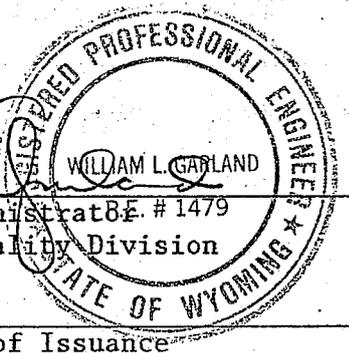
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

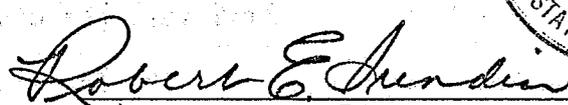
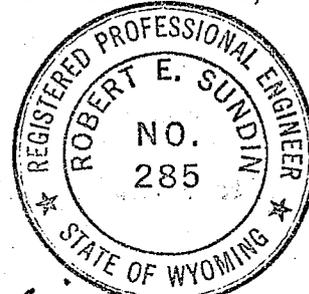
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrat^{or} # 1479
Water Quality Division



Director
Dept. of Environmental Quality


May 2, 1984

Date of Issuance

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

* CONDITIONS ON PERMIT *

1. Before completing backfill operations on the leach bed, the Big Horn County Engineer shall be contacted at 568-2358 in Basin. The county will inspect the leach bed for proper installation, in accordance with Department of Environmental Quality/Big Horn County small wastewater delegation agreements.
2. The permittee shall provide quarterly monitoring reports to the Department of Environmental Quality/Water Quality Division in Cheyenne, Wyoming 82002, Attention: Tony Mancini. The content of each report will be as agreed to in the application package, and in accordance with Water Quality Rules and Regulations, Chapters III, VIII and IX.
3. Groundwater monitoring wells shall be constructed, and initial samples taken before the leach bed site is further disturbed. This will provide a proper background sample in accordance with the application package.

EB:dcn

cc: Big Horn County Engineer

TELEPHONE REVIEW

TO: Phil Stuckert of Buell, Winter, Mousel & Associates, File
FROM: Ed Baruth, P.E., Northwest District Supervisor *Ed*
DATE: April 26, 1984
SUBJECT: Review of #84-78R - Manderson School

On April 26, 1984 I conducted a telephone review on the Manderson School submittal. We discussed the April 24, 1984 memorandum from Tony Mancini.

A copy is hereby forwarded for use by Buell, Winter, Mousel.

EB:dcn

*Department of Environmental Quality**Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Ed Baruth

FROM: A. J. Mancini

DATE: April 24, 1984

SUBJECT: Comments on Permit Application, 84-78R, Manderson School Wastewater Treatment Facility

1. The applicant reports that there are several (three) wells with 1/4 mile of the leach field, used "solely for irrigation purposes and not domestic or stock consumption". Be that as it may, the wells identified by the applicant, as recorded in the State Engineer's office, were drilled so that groundwater could be appropriated for domestic use. Therefore, the water is protected for domestic use. Before the groundwater review can be completed, the applicant must submit background water quality data.
2. The applicant "speaks" of observation well. An observation well may be different from a monitor well. Monitor means obtain fluid samples for analysis and/or water level measurements, or observe and record, and that is what we are interested in.
3. Monitor wells should be identified by name and/or number, and so referred to on maps/plans, reports. Location and ground elevation should be accurately established for each well.
4. Total depth of each monitor well should be at least five feet deeper than the seasonally low water level.
5. Well construction details should be more specific. We recommend 4-inch I.D. casing. Casing should have openings or screen from one foot above high seasonal water level to below low seasonal water level. May not be necessary to have continuous openings/screen, although this is preferred. Gravel pack should extend from uppermost openings/screen to bottom of hole.
6. Instead of excess drill cuttings mounded on the surface around the casing, which should extend one foot above the surface, applicant should propose a cement (concrete) collar or pad sloped away from the casing. Applicant should also propose a concrete sheath around the casing from the surface to some suitable depth, a protective locking cap (as applicant has done), and a method of protection from livestock and other potential surface intrusions.

7. Applicant should propose to develop wells to remove "bines" adjacent to well bore, and to submit "as built" after wells have been permitted and installed.
8. Applicant has proposed collecting one sample per well for background data; preferred that more than one sample, several weeks apart, be collected. Also preferred that water levels be measured prior to sample collection.
9. Applicant should propose an operational monitoring and reporting schedule.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 LINCOLN

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Manderson School Wastewater Treatment Facility

ENGINEER: Buell Winter Mousel & Associates
123 West First St., Suite C70
Casper, WY 82601

OWNER: Big Horn County School District No. 14
P. O. Box 151
Basin, Wyoming 82410

WATER QUALITY DIVISION REFERENCE NUMBER: #84-78

REVIEWING ENGINEER: Ed Baruth, P.E. *EB*

DATE OF REVIEW: March 15, 1984

ACTION: Not authorized.

COMMENTS:

1. Please submit four (4) copies of plans and specifications to this office for review. On standard sewage treatment plants, sewer lines, water plant, water lines, etc., only three are required. The fourth set, in this case, will be mailed to the Big Horn County Engineer for use in the inspection he will do of the construction.

2. In Section 02435, 2.03.0, please check your ASTM and AWWA specifications for Asbestos-Cement Pressure Pipe. Department of Environmental Quality specifications require AWWA C400-80.

3. Please examine the attached Part D of our Chapter 11, Rules and Regulations covering sewage treatment systems, etc. These regulations detail allowable loading rates which differ from the 1.67 gal/SF/day you specify. The chart on page 17 at 9 minutes/inch percolation calls for 0.65 gal/SF/day.

Further, these regulations (which recently were adopted) require you to account for mounding under your leach bed. This calculation may, in your case, allow you to lower your leach bed. Please verify that your ground water elevations are high levels, before proceeding with your calculations.

4. The existing groundwater will have to be analyzed for the following parameters: chlorides, COD, ammonia, nitrates, pH, conductivity, and TDS. You will also need to log all wells with $\frac{1}{2}$ mile of your leach bed.

5. We will require the ventilation and access cover to your wet well. However, you may delete the trash basket.

ABC

6. Please identify if a replacement area for the leach bed exists.
7. The maximum allowed slope on the piping in the bed is 3 inches/100 feet.

EB:dcn

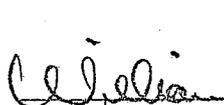
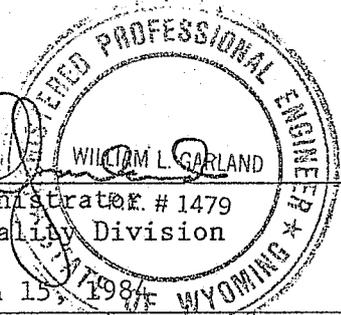
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

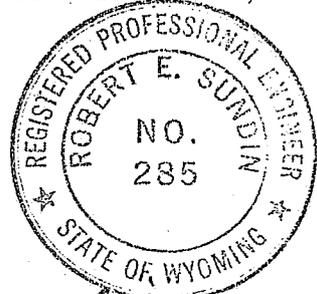
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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

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

AUTHORIZED BY:



Administrator # 1479
Water Quality Division
March 15, 1987
Date of Issuance



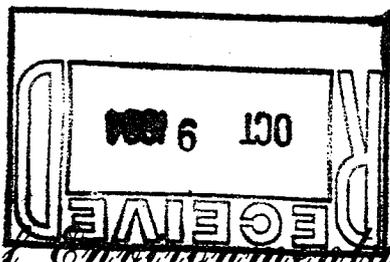
Director
Dept. of Environmental Quality

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

THE STATE



OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

October 4, 1984



Mr. Douglas W. Collins
Superwater Systems of Colorado, Inc.
9172 Marshall Place
Westminster, Colorado 80030

Dear Mr. Collins:

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

Facility name:	<u>Scott Field Partnership, Ltd., Waste-</u> <u>water Treatment System</u>
DEQ/WQD Reference Number:	<u>84-80</u>
Engineering Consultant:	<u>HWS, Inc.</u>
DEQ/WQD Review Engineer:	<u>Tom Mueller</u>
Date of DEQ/WQD Review:	<u>March 15, 1984</u>

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

OK

- The application will not be resubmitted as the proposed project has been cancelled.
- The application will be resubmitted within 30 days.
- The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.
- Other remarks:

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: Scott Field Partnership

ARCHITECT OR ENGINEER: Superwater Systems of Colorado, Inc.
Attention: Douglas W. Collins
9172 Marshall Place
Westminster, Colorado 80030

WATER QUALITY DIVISION
REFERENCE NUMBER: 84-80

REVIEWING ENGINEER: Thomas J. Mueller *TJM*

DATE OF REVIEW: March 15, 1984

ACTION: Not Authorized for Construction

COMMENTS:

The materials submitted are returned herewith, for the following reasons:

- 1) The application form must be signed by an officer of the entity making application, who shall be responsible that construction is completed in accordance with applicable regulations and the application.
- 2) All plans and specifications submitted shall carry the signature of the designing engineer, who must be a registered Professional Engineer in the State of Wyoming.
- 3) Three (3) copies of all plans and specifications must be submitted.

The application and supporting materials will be accepted for review when the above conditions are complied with.



Department of Environmental Quality

Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

October 4, 1984

Mr. Douglas W. Collins
Superwater Systems of Colorado, Inc.
9172 Marshall Place
Westminster, Colorado 80030

Dear Mr. Collins:

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

Facility name:	<u>Scott Field Partnership, Ltd., Waste-</u> <u>water Treatment System</u>
DEQ/WQD Reference Number:	<u>84-80</u>
Engineering Consultant:	<u>HWS, Inc.</u>
DEQ/WQD Review Engineer:	<u>Tom Mueller</u>
Date of DEQ/WQD Review:	<u>March 15, 1984</u>

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

- The application will not be resubmitted as the proposed project has been cancelled.
- The application will be resubmitted within 30 days.
- The facility has been constructed, or is under construction. As built construction plans and specifications will be submitted within 30 days.
- Other remarks:

Mr. Douglas W. Collins
October 4, 1984
Page Two

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

Sincerely,



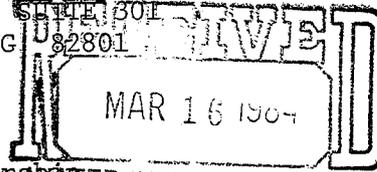
Rich Ruyle
District Engineer

RR:ls

Attachment: Review of 3/15/84

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., STATE 301
SHERIDAN, WYOMING 82801



PROJECT: Scott Field Partners
ARCHITECT OR ENGINEER: Superwater Systems of Colorado, Inc.
Attention: Douglas W. Collins
9172 Marshall Place
Westminster, Colorado 80030

WATER QUALITY DIVISION
REFERENCE NUMBER:

84-80

REVIEWING ENGINEER: Thomas J. Mueller

DATE OF REVIEW: March 15, 1984

ACTION: Not Authorized for Construction

COMMENTS:

The materials submitted are returned herewith, for the following reasons:

- 1) The application form must be signed by an officer of the entity making application, who shall be responsible that construction is completed in accordance with applicable regulations and the application.
- 2) All plans and specifications submitted shall carry the signature of the designing engineer, who must be a registered Professional Engineer in the State of Wyoming.
- 3) Three (3) copies of all plans and specifications must be submitted.

The application and supporting materials will be accepted for review when the above conditions are complied with.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-81R
 SEE CONDITIONS
 MA 14068

HARVEST DANCE - SPRING CREEK RANCH
 (Name of Facility)

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

Spring Creek Ranch Co.

P.O. Box 3154

Jackson, WY 83001

to construct, install, or modify a temporary holding tank facility according to the procedures and conditions of the application No. 84-81R. The facility is located in Section 21, T41N, R116W in the County of Teton, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

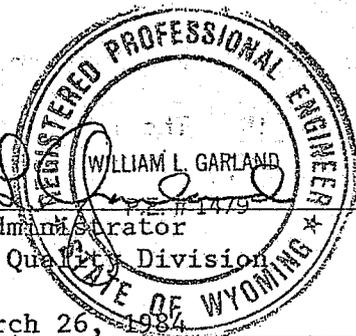
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

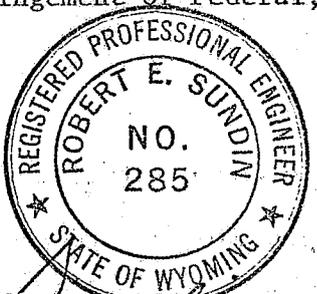
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


William L. Garland
WILLIAM L. GARLAND
P.E. #1479
Administrator
Water Quality Division
STATE OF WYOMING


Robert E. Sundin
Director
Dept. of Environmental Quality

March 26, 1984
Date of Issuance

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

Conditions to Permit to Construct

This facility is authorized for temporary use only and shall be abandoned upon the sale of the units which are currently being used as models. Connection to the central sewer is required at that time.

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

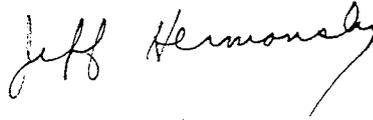
PROJECT: Harvest Dance, Spring Creek Ranch

ENGINEER: Robert L. Farnsworth
P. O. Box 3154
Jackson, WY 83001

OWNER: Spring Creek Ranch
P. O. Box 3154
Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: #84-81

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: March 15, 1984

ACTION: **Not authorized.**

COMMENTS: The plans that you have submitted do not give any information about the holding tank other than volumn.

Please review the enclosed regulations on holding tanks and submit the necessary plans and specifications for the tank.

Feel free to contact me if you have any questions.

JH:dcn

Enclosure

AC



Department of Environmental Quality

Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

October 29, 1985

Boy Scouts of America
ATTN: Mr. Darrell Jackson
Central Wyoming Council #638
P.O. Box 1506
Casper, WY 82602

RE: Buffalo Bill Scout Camp, DEQ Ref. No. 84-82RRR

Dear Mr. Jackson:

Thank you for submitting the water useage records for the 1985 camping season. The records do indeed indicate that the plumbing repairs and improvements completed prior to the start of the season have reduced the water consumption at the camp.

The average daily flow for the 80 days that the camp was used is 1,073 gallons per day, which is below the design capacity of 1,196 gallons per day for the 2,300 ft. disposal field. The records indicate that there is a peak flow of about 1,790 gallons per day for about a one month period during the middle of the summer. This peak flow is about equal to your average flow of 1,714 gallons per day prior to the repairs and improvements to the plumbing system.

Before and after the peak month, the water useage is well below the design capacity of the disposal field. As I discussed in my October 24, 1984 letter, the sizing of disposal fields in our regulations is based upon continuous year round use. It appears that the seasonal use of the facility, coupled with peak flow during the warmest and dryest part of the summer, and some evapotranspiration, has enabled the leach field to adequately dispose of the peak month sewage flow even though it exceeds the design capacity of the field.

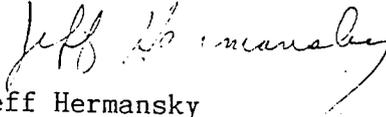
I included two stipulations in my October 24, 1984 letter that needed to be met before this office could approve the as-built construction of the leach field. These stipulations were the installation of water saving shower heads and certification of the size and condition of the kitchen and shower house septic tanks. According to your October 10, 1985 letter, these stipulations have been met.

Therefore, this office is granting approval of the as-built construction of the disposal field and septic tank as shown in the plans submitted. We are requesting that you continue to send yearly reports of your seasonal water useage with verification that the leach field is functioning properly.

Mr. Darrell Jackson
October 29, 1985
Page Two

Thank you for your fine cooperation in addressing and resolving this matter.
please feel free to contact me anytime.

Sincerely,



Jeff Hermansky
Water Quality Evaluator

JH/jw

copy: Jake Strohman, DEQ/WQD, Cheyenne
Roy Holm, P.E.
File

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 7, 1985

CERTIFIED #P 399 271 490

Boy Scouts of America
Central Wyoming Council #638
P. O. Box 1506
Casper, WY 82602

Attention: Mr. Darrell Jackson

RE: Buffalo Bill Scout Camp
DEQ No. 84-82RRR

Dear Mr. Jackson:

Thank you for submitting the development plans for Camp Buffalo Bill that pertain to the water and wastewater system improvements. Your plan is generally in keeping with the items and schedule that we have been discussing in our previous correspondence.

However, in my October 24, 1984 letter, I specified that the existing septic tanks must be inspected and replaced, if necessary, prior to the 1985 camping season. You have responded with a proposal to check the tanks prior to the start of the season, but any necessary replacement would not take place "until after the camping season or the following year."

Since this Department recognizes the planning and financial constraints that your non-profit organization must operate under, we will agree to your schedule for the inspection and replacement of the septic tanks with the following condition:

The scum and sludge levels must be determined in accordance with the enclosed septic tank maintenance procedures. If these levels exceed the recommended maximum levels, the tank(s) must be pumped prior to the camping season. You may simply pump the tanks without level determination if you so choose.

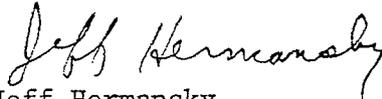
Boy Scouts of America
January 7, 1985
Page Two.

Thank you for your continuing cooperation.

Please notify us of the status of the required corrections by July 1, 1985.

As always, feel free to contact either Ed Baruth or me if you have any questions.

Sincerely,


Jeff Hermansky
Water Quality Evaluator

JH:dcn

Enclosure

xc: Jake Strohman, DEQ/WQD Cheyenne
Roy Holm, P.E.
Plans #84-82RRR



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

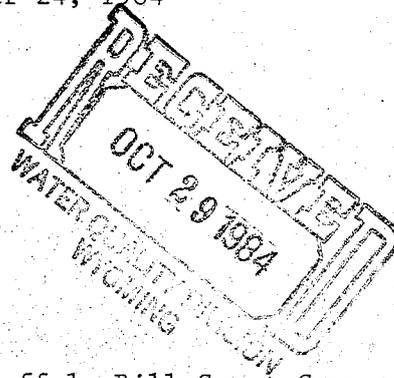
TELEPHONE 307-332-3144

October 24, 1984

Boy Scouts of America
Central Wyoming Council #638
P. O. Box 1506
Casper, WY 82602

Attention: Darrell Jackson

RE: Buffalo Bill Scout Camp
DEQ Ref. No. 84-82RR



Dear Mr. Jackson:

Thank you for submitting the data of water use at the Buffalo Bill Boy Scout Camp for the summer of 1984. The data has been very useful in determining if the as built leach field meets the intent of the Water Quality Division's current standards.

In the strictest sense, the as built leach field is too small to meet the standards. For the average daily flow reported, 1,714 gallons per day, the leach field would need to be at least 3,296 ft² to meet the standards. Only 2,300 ft² of leach field was installed.

When we consider your proposal to install water saver shower heads and replace the toilets with water saver toilets, you suggest that a savings of up to 30,000 gallons per season can be realized. This works out to a total flow of 1,273 gallons per day and would require the leach field to be 2,447 ft² to meet the standards.

There is one other mitigating factor that can be considered. The leach field tends to get a days "rest" periodically throughout the season during group changeover, as well as no use during most of the 9 months of the off season.

The standards are designed for continuous year round use of the leach field, although we can't predict or correlate how much less leach field should be required in a case of only seasonal use, we feel comfortable in that it is somewhat less than for continuous use.

C

Therefore, we feel that the as built leach field construction can be authorized with the following stipulations:

1. The proposed water saving shower heads that allow only 2.5 gallons per minute flow must be installed in each of the showers. Furthermore, water saving toilets and urinals must also be installed.
2. The existing septic tanks that serve the kitchen and shower house must be examined to determine their size and condition. The septic tanks must meet current sizing requirements; that is, 2,000 gallons for the shower house and 1,000 gallons for the kitchen.

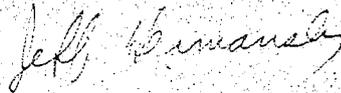
If the septic tanks meet the size requirements but are in poor condition, they must still be replaced.

Septic tank size and design are critical for the protection and proper function of the leach field.

These two items must be completed prior to the start of the 1985 camping season. Please respond to this letter with a timetable for addressing the aforementioned items within 30 days of receipt of this letter.

Thank you for your attention and cooperation in resolving this matter. Feel free to contact me if you have any questions.

Respectfully,



Jeff Hermansky
Water Quality Evaluator

JH:dcn

xc: Jake Strohman, DEQ/WQD Cheyenne
Roy Holm, P.E.
Plans #84-82RR



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

May 15, 1984

Boy Scouts of America
Central Wyoming Council #638
P. O. Box 1506
Casper, WY 82602

Attention: Darrell Jackson

RE: Buffalo Bill Scout Camp
#84-82R

Dear Darrell:

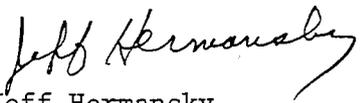
Thank you for your letter and time table regarding the installation and reading of the water meters at the Buffalo Bill Boy Scout Camp.

The installation of a meter at each of the three buildings, with weekly recording of the flow should be sufficient to provide us with the data necessary for evaluating the sizing of the wastewater disposal facility. Your time table is fine except that we need to add, "the weekly flow measurements must be submitted to the Department of Environmental Quality, Water Quality Division, Lander office, by September 30, 1984."

Sometime during the camping season, a representative from the office will stop by and take a look at the layout of the camp, the meter installation, and the as built wastewater disposal field site.

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

Respectfully,


Jeff Hermansky
Water Quality Evaluator
Northwest District

JH:dcn

xc: Jake Strohman, DEQ/WQD Cheyenne
2 - Plans #84-82R



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

April 19, 1984

CERTIFIED #P 289 233 581

Central Wyoming Council #638
P. O. Box 1506
Casper, Wyoming 82602

Attention: Darrell Jackson

RE: #84-82R As Built

Dear Mr. Jackson:

This letter is intended to confirm and supplement our April 12, 1984 discussion in my office, in which we went over your April 3, 1984 letter.

Your letter pointed out that only a portion of the wastewater generated by the campers is disposed of in the wastewater treatment facility shown on the plans that were submitted. Since it is almost impossible to estimate an accurate wastewater flow rate, you proposed installing water meters at each of the buildings served by the wastewater treatment facility.

I agree that the water meters are the best way for us to collect accurate information. In order to see that the meters are installed in mutually acceptable locations and prior to the start of the camping season, please submit a plan showing the proposed locations and a time table for their installation. The plan and time table must be submitted within 30 days of receipt of this letter.

Sometime after we receive your plan and time table, we can discuss the frequency in which the meters should be read and the date for submittal of the readings.

Thank you for your cooperation. Feel free to contact me if you have any questions.

Respectfully,

A handwritten signature in cursive script that reads "Jeff Hermansky".

Jeff Hermansky
Water Quality Evaluator
Northwest District

JH:dcn

cc: Jake Strohman, DEQ/WQD Cheyenne
Plans #84-82R

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: Buffalo Bill Boy Scout Camp

ENGINEER: Holm, Blough and Company
P. O. Box 1748
Cody, WY 82414

OWNER: Central Wyoming Council of the Boy Scouts of America
c/o Mac Taggart
702 Allen Avenue
Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: #84-82

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: March 21, 1984

ACTION: **Not authorized.**

COMMENTS: Thank you for submitting the as built plans of the wastewater treatment facility improvements at the Buffalo Bill Boy Scout Camp. I recognize that this project is unusual in that it was done in an emergency situation to correct a failing system during the height of the season.

I applaud the Central Wyoming Council, contractor Dave Hoffert, and you for dealing with the problem so quickly. It appears that your efforts prevented the discharge of the camp's wastewater into the North Fork of the Shoshone River.

As you stated in your cover letter, the need for immediate attention precluded the normal design and permitting process. Therefore, the contractor and I agreed by phone to allow the contractor to install improvements that he felt would solve the problem. We agreed that the work should be done as soon as possible.

There is no doubt that the newly installed septic tank and leach field have substantially improved the camp's wastewater treatment facility. However, the field installed does not appear to be of sufficient size to meet either the past or the current requirements.

I agree with you completely that it will be very difficult to arrive at accurate quantities for wastewater flow. Of all of my references, only Metcalf & Eddy, "Wastewater Engineering" has numbers that relate to a camp situation. They list: Children's Camp, central toilet and bath, with a flow range of between 42 and 53 gallons per person per day. If this were an accurate range for the Boy Scout Camp, there would be between 8,400 and 10,600 gallons of wastewater produced each day during the peak season. I seriously doubt the leach tank would have lasted as long as it did if the flow was this great.

Review of Plans and Specifications
Buffalo Bill Boy Scout Camp #84-82
March 21, 1984
Page Two

In an effort to establish a reasonable starting point for our evaluation of this project, I am suggesting we use 25 gallons per person per day. I believe it is reasonable to assume that a group of young men and boys will use the showers infrequently and the forest, rather than the indoor plumbing, often; therefore, my justification for 25 gallons per person per day flow.

With a peak flow of 5,000 gallons per day, and an application rate of .52 gal/ft²/day, 9,600 ft² of leach area is required by the regulations. The newly installed leach field has only 2,300 ft² of disposal area. Therefore, we are concerned that although the new field served us well last year, it too will fail prematurely.

We are requiring that the facilities at the Boy Scout Camp are brought up to current standards. This may be accomplished by adding to the newly constructed field if room allows, or by separating the camp flow into a couple of leach fields. Furthermore, to protect your new field and to meet regulations, all septic tanks must be inspected and replaced as necessary.

Since we are forced to make some assumptions regarding the quantity of flow, I feel it would be to our advantage to install monitoring pipes in the newly constructed field and any other fields that are built. We can then check the level of the wastewater in the fields.

I once again would like to commend everyone involved in the speedy correction of the leach tank failure last summer. I strongly believe we should continue to improve this facility so that future problems are unlikely. A Boy Scout Camp should be exemplary of our environmental attitudes since it is a training ground for some of our leaders of the future.

Please respond to this review within 30 days of receipt. Any changes that must be made should be accomplished before the 1984 camping season.

Feel free to contact me if you have any questions.

JH:dcn

3-27-84

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-83
Ref. No. 83-602
MA 14068

Sewer Line Replacement - Between First St. and River St.
(Name of Facility)

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

Town of Saratoga

Carbon County Joint Powers Board

✓ P.O. Box 486

Saratoga, WY 82331

to construct, install, or modify a sanitary sewer facility according to the procedures and conditions of the application No. 84-83. The facility is located in Section 11 and 14, T17N, R84W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

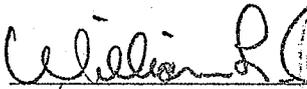
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

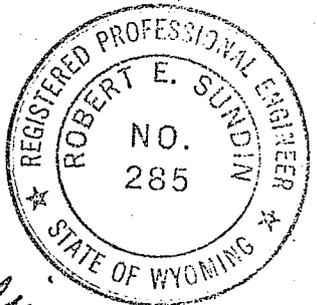
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
March 20, 1980
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: Paul McCarthy
Robert Jack Smith & Assoc.
Box 1104
Rawlins, WY 82301

4-12-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-84R
MA 14068

Campbell Drive, Halco 4th Addition
(Name of Facility)

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

Halco Construction, Inc.

111 West 22nd Ave.

Torrington, WY 82240

to construct, install, or modify a municipal water distribution and wastewater collection facility according to the procedures and conditions of the application No. 84-84R. The facility is located in Halco 4th Addition, Section 4, T24N, R61W in the County of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

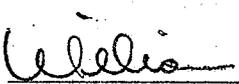
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

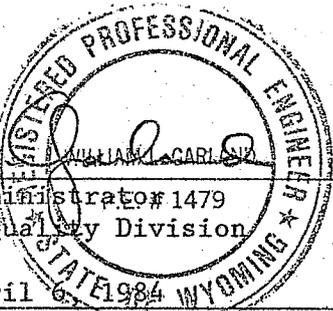
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

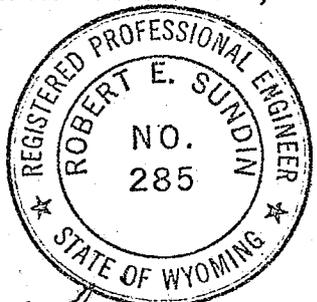
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator #1479
Water Quality Division

April 6, 1984
Date of Issuance



Director
Dept. of Environmental Quality


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

cc: Russell D. Schamel
4U2 Engineering & Land Surveying
P.O. Box 99
Torrington, WY 82240

3-22-84

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Campbell Drive, Halco 4th Add., Goshen Co.

ARCHITECT OR ENGINEER: Russell Schamel, 4U2 Engineering & Land Surveying
P.O. Box 99, Torrington, WY 82240

APPLICANT: Halco Construction Inc.
111 W. 22nd Ave., Torrington, WY 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 84-84

REVIEWING ENGINEER: Thomas S. Norman *T.S. Norman*

DATE OF REVIEW: March 21, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A letter is necessary from the Town of Torrington stating that they will accept the water and sewer extensions.
2. No profile was shown for the sewer line on Fremont Ave.
3. A cleanout or manhole is required on the sewer line on Fremont Ave.
4. The fire hydrant should be moved to the end of the water line on Campbell Drive so that it can also be used as a blowoff.
5. Fire flows were not included in the water calculations.

6-21-84



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

June 20, 1984

Ruby Berryman, Clerk
Town of Albin
P.O. Box 205
Albin, WY 82050

RE: Construction Permit No. 84-85R - Albin Wastewater Treatment Lagoon

Dear Ms. Berryman:

I have reviewed your letter of June 7, 1984 requesting the elimination of part of the riprap around your new lagoon.

At this time, we will defer allowing your request for two reasons:

1. Your construction permit is good for two years, or until April 12, 1986. If you do not install all of the riprap at this time, you will not be in violation of the permit until it expires. This will give us time to evaluate the effect of the riprap reduction. If in March of 1986 it is evident that the riprap is not required, we will grant your request.
2. We strongly believe that the riprap is necessary to protect the lagoon dikes and lining. Since the construction permit does not expire until April 1986 you have some time to try and raise the money to install the additional riprap. However, as I stated in item 1 above, if we are wrong, we will grant your request in 1986.

If you have any questions about this, please feel free to contact me about them.

Sincerely,

Theodore D. Coyer, P.E.
Engineering Evaluator

TDC/nc

cc: James D. Voeller, 1700 Westland Road, Cheyenne, WY 82001

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-85R
MA 14089

Albin Sewage Lagoon
(Name of Facility)

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

Town of Albin

1700 Westland Road

Cheyenne, WY 82001

to construct, install, or modify a sewage treatment lagoon facility according to the procedures and conditions of the application No. 84-85R. The facility is located in Section 29, T17N, R60W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

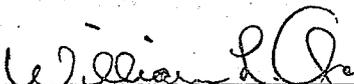
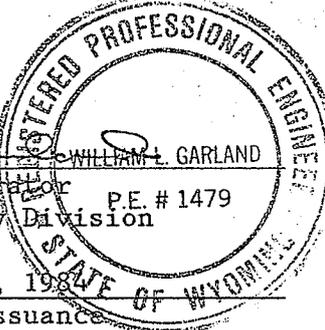
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

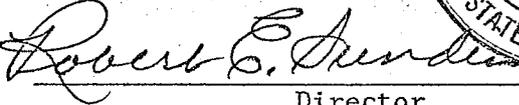
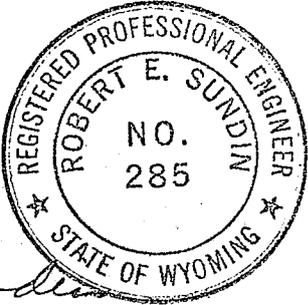
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
P.E. # 1479

April 12, 1987
Date of Issuance


ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

cc: James D. Voeller
AVI, p.c.
1700 Westland Road
Cheyenne, WY 82001

Normal

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 301
SHERIDAN, WYOMING 82801

PROJECT: Town of Ranchester
Sewers, Interceptors and Lagoons

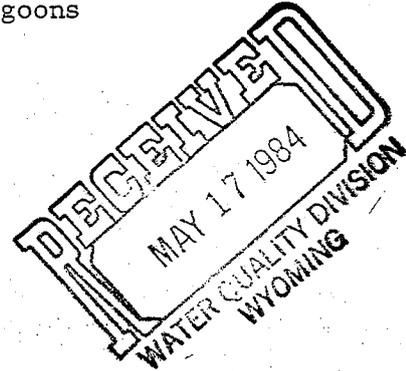
ARCHITECT OR ENGINEER: Roger Reich
Engineering, Incorporated
45 East Loucks
Sheridan, Wyoming 82801

WATER QUALITY DIVISION
REFERENCE NUMBER: 84-134 and ~~84-86~~

REVIEWING ENGINEER: Tom Mueller *TMM*

DATE OF REVIEW: May 16, 1984

ACTION: Not Authorized for Construction. See Comments.



COMMENTS:

Groundwater Concerns

Enclosed are two review memos from the Groundwater Section of this agency, dealing with the proposed project. The April 26 memo deals with the dewatering system, and makes recommendations concerning operation and maintenance. The April 23 memo contains recommendations for groundwater quality monitoring. The Permit to Construct, when issued, will contain conditions on both of these issues. If the Town or design engineer wish to make any input toward these conditions, it should be done at this time.

Discharge Concerns

The Town currently has a discharge permit for the sewage lagoons. Additional permits and/or outfall numbers, either permanent or temporary, may be necessary for dewatering, however, for either the wells or temporary pumps placed in the excavations. Enclosed are application forms for such discharge permits. It is recommended that Mr. John Wagner of this Division (Cheyenne phone number 777-7781) be contacted for guidance in this regard.

General

1. Incorrect slopes are shown for the sewer reaches between manholes
7 + 28 and 8 + 11
31 + 82 and 35 + 60.8

2. The Chlorination Room must have positive ventilation controlled from outside the room, panic hardware on the door, and a bottle of ammonium hydroxide must be available.

The protective breathing apparatus and heater must be specified. The electrical drawings and plan on Sheet 10 should agree on placement of the viewing window.

3. The watering/washdown system, diverter solenoid, etc., at Well 7 must be shown.
4. Will check valves or flap valves be installed anywhere on the dewatering discharge lines?
5. Will the aeration blowers and emergency generator receive intake air from inside or outside the building? Where will the motorized damper be installed? Will there be any damper on the 18" x 18" louvered vent on the east wall?
6. The hypalon liner must have vents at high points along its perimeter to prevent damage from subsurface gas buildup.
7. Multiple level drawoffs, independently valved, are required for the final pond cell.
8. The propane/generator drawings on Sheet 13 indicate that the unit heater(s) will receive liquid, rather than gaseous, propane. Is this correct?
9. Electrical Drawings.
 - On the Control Schemes for the Chlorine Submersible Pump and Telephone Alarm, it appears that Auxiliary Contact C-1 should be normally closed, rather than normally open.
 - On the Telephone Alarm Control Scheme, how will the Auto-Dialer be prevented from functioning when the chlorinator is not in operation (winter months), the groundwater pumps are operating on manual, or the generator is being exercised?
 - What is the control voltage, and how will it be supplied?
 - On the one-line diagram, Pumps #13 and #14 should apparently be labeled #6 and #7.
 - Are the Dewatering Pump Motor Starters to be located within the building or at the wells? If in the building, where? If at the wells, detail #1 should so indicate.

Review of Plans and Specifications
WQD Reference Nos. 84-134 and 84-86
Town of Ranchester
May 16, 1984
Page Three

10. On the Contour Map, Sheet 9, please indicate the 10-year, 25-year and 100-year flood contours, to the extent they are known, can be calculated, or guessed at.
11. The Chlorine contact basin, Sheet 13, is not completely dimensioned.
12. Although fencing is specified, none is shown anywhere on the drawings.
13. Signing of the treatment plant is required.
14. The number of aerators described in Section 10-C of the specifications does not match the drawings. Will the 4" static tube aerators be used anywhere?
15. The copper pipe shown on the typical aeration lateral connection is not specified in Section 11-A.
16. Please complete and return an Application for a Permit to Construct for this project.

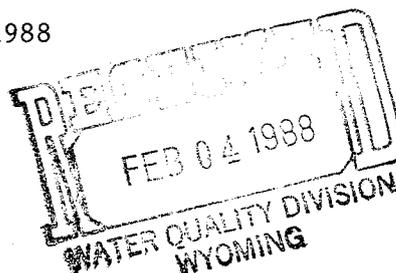


Department of Environmental Quality

Air Quality Division
(307) 672-6457

Water Quality Division
(307) 672-6457

February 2, 1988



Ms. Donna Wichers
Malapai Resources Company
P. O. Box 9950
Casper, Wyoming 82609

Dear Donna:

As requested, the Water Quality Division authorizes reducing the leak detection monitoring frequency at the Willow Creek R & D evaporation ponds (Permit to Construct 84-87R). Monitoring shall be conducted monthly, as also required by the U. S. Nuclear Regulatory Commission. This monitoring schedule will be adequate as long as no new problems develop with the ponds. Monitoring frequency may be changed as restoration continues.

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

Sincerely,

Susan Fields
Northeast District Supervisor
Water Quality Division

SF:jj

xc: Glen Mooney, LQD, Sheridan
Norma Coulson, WQD, Archives File 84-87R
Jake Strohmman, Groundwater Supervisor

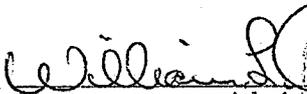
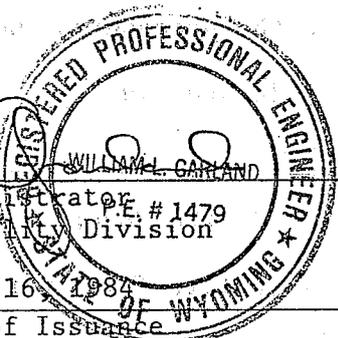
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

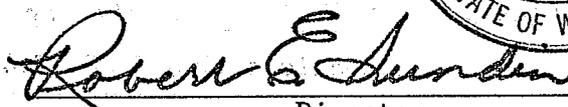
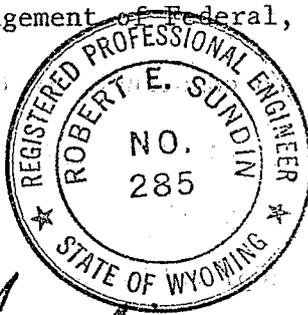
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
E. # 1479
July 16, 1984
Date of Issuance



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

CONDITIONS

1. The soil filter layer, lying between the pond lining and the leak detection pipes, shall be constructed of imported sand material, as outlined in Western Nuclear, Inc.'s letter dated June 11, 1984, to William Garland, Administrator of the Water Quality Division.
2. At all times when either pond is receiving wastewater, both ponds shall be checked on a daily basis for the presence of any fluid in the leak detection systems. At such times when neither pond is receiving wastewater, but there is liquid present in either pond, both ponds shall be checked on a weekly basis for the presence of any fluid in the leak detection systems.
3. Should fluid be detected in either leak detection system, it shall be sampled and analyzed for sodium, carbonate, calcium, chloride, and electrical conductivity. The Water Quality Division shall be notified of these findings within 24 hours of the discovery of the fluid, and corrective action as outlined in Section I of the application shall be undertaken as appropriate.

xc: Mr. Joseph Cronk, Western Nuclear, Inc.

Norma
returned to
Sheridan
4-5-84

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 84-87

Date Submitted For Review March 20, 1984

Name and Location of Facility Western Nuclear Inc
Christensen Ranch R4D Site 1
Willow Creek
Campbell Co.

I have reviewed the plans and specifications with regard to all aspects of ground-water quality and find the following:

- No Comment. The submittal is consistent with current ground-water protection procedures and requirements.
- Comments attached.

Signed Richard J. Lennep
Title Engineering Eval
Date 4/4/84

Approved 4/4/84
(Date)

ajm
(Signed)
Groundwater Control Supervisor

MEMORANDUM

TO: A. J. Mancini, Groundwater Supervisor
FROM: R. J. Lennox, Engineering Evaluator
DATE: April 3, 1984
SUBJECT: Christensen Ranch Project, R & D Site 1, Willow Creek, Ref. No. 84-87

1. I have reviewed the subject document for groundwater concerns and have the following comment:

The leak detection system as designed appears to be inadequate based on the information presented. Part IV Supporting Information, Section 14, Liner and Leak Detection/Underdrain Systems Specifications discusses a case whereby the time calculated to detect a small leak occurring in the center of the pond to be 144 days. This time lag appears to be excessive for a project that is only scheduled to last for 4 months.

2. I contacted Greg Bogden of WNI concerning the above comment and he indicated that NRC had contacted him on Monday, April 2, 1984 with an identical concern. Greg has referred the comment to WNI's consulting firm, D'Appolonia, for response. As soon as I get any additional information, I will forward my comments to you.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-88
 SEE CONDITION
 MA 14068

WYO Motel
 (Name of Facility)

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

WYO Motel/B.A. Strickland

Wyoming Truck Plaza

P.O. Box 611

Cheyenne, WY 82003

to construct, install, or modify a commercial subsurface wastewater treatment and disposal system facility according to the procedures and conditions of the application No. 84-88. The facility is located in Section 23, T14N, R64W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

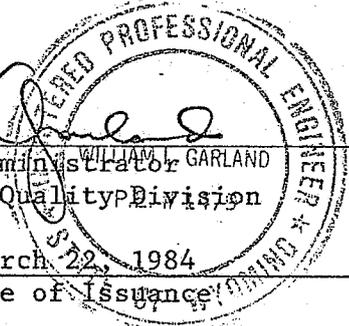
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

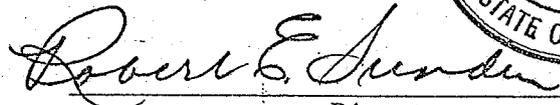
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

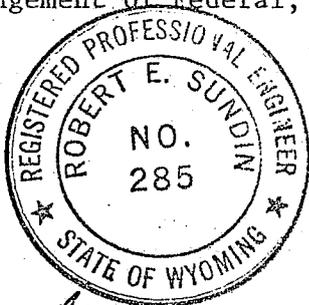


Administrator GARLAND
Water Quality Division
March 22, 1984
Date of Issuance





Director
Dept. of Environmental Quality



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

Condition to Permit to Construct

The permittee shall notify representatives of Laramie County Environmental Health of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. The authorized representative in your area can be contacted at the following address:

Don Pack
Laramie County Environmental Health
1700 Snyder Ave.
Cheyenne, WY 82001
Telephone: 638-8545

cc: Rick Johnston
Gust & Johnston
2232 Del Range, Suite 203
Cheyenne, WY 82009

4-12-84

PERMIT TO CONSTRUCT

Permit No. 84-89R

MA 14068

- New
- Renewal
- Modified

Montevue Addition
(Name of Facility)

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

Robert D. Blake

101 McConnell Street

Laramie, WY 82070

to construct, install, or modify a municipal wastewater collection facility according to the procedures and conditions of the application No. 84-89R. The facility is located in Lots 2-4, Block 1, 1st Filing of Revised Montevue Addition, Section 21, T16N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

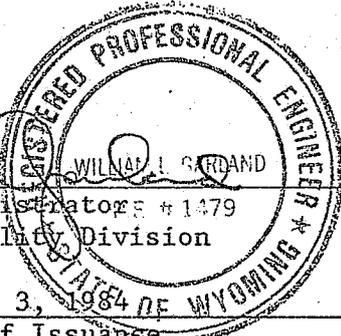
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

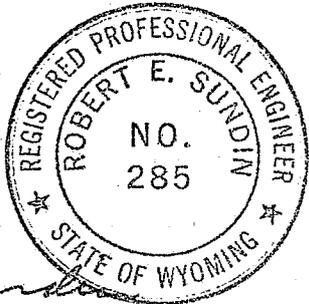
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:


Wilnap L. Gardand
Administrators #1479
Water Quality Division
April 3, 1984
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

cc: Lonnie Lanners
Alpha Engineering Inc.
21 North Main #3
Sheridan, WY 82801

3-22-84

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Montevue Addition, Lots 1-4, Block 1, Albany Co.

ARCHITECT OR ENGINEER: Lonnie Lanners, Alpha Engineering, Inc.
21 No. Main #3, Sheridan, WY 82801

APPLICANT: Robert Blake
101 McConnell St., Laramie, WY 82070

WATER QUALITY DIVISION REFERENCE NUMBER: 84-89

REVIEWING ENGINEER: Thomas S. Norman *T.S. Norman*

DATE OF REVIEW: March 21, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The 1984 Wyoming Public Works Standard Specifications require that the engineer make certain decisions either in the special conditions or on the drawings. Attached are those items you must specify in order to use these standards.

cc: Hammon Surveying
P.O. Box 471
Laramie, WY 82070

PAGE, SECTION, PARAGRAPH	ITEM	DECISIONS THAT ARE NEEDED	DETAIL IN SPEC	WHERE TO BE CALLED FOR	COMMENTS	
303.04(D)	Curb Boxes	Water Service Lines	Dwg. 303-01 Spec.	SP	Type	
303.07	Tapping	Water Main for Svc Line	Dwg. 303-01 Spec.	SP	Specify who is to tap water mains if not done by Contractor.	
303.07	Tapping	Water Main for Svc Line	Dwg. 303-01 Spec.	SP	Specify if PVC or AC pipe can be tapped w/o service clamps.	
SEWER	401.02	Pipe Strength Classification	Sewer Pipe	NA	P, PR or SP	For each type of pipe specified
	401.02(C)	Manufacturer's Certification	VCP Sewer Pipe	NA	SP	Certify it meets the specs.
	401.03(E)	Joint Deflection Tolerance	All sewer pipe	NA	SP	Specify if acceptable.
	401.04(E)	M. H. Rings and Covers	Manholes	NA	SP	Specify per Owner's Stds.
	401.05(B)	TV Camera Inspection	Sewer Lines	NA	SP	Specify if Contractor pays for.
	402.02(A)	Pipe Strength	Sewer Service	NA	PR or P	For each type of pipe specified.
	402.02(B)	Pipe Certification	Sewer Service	NA	S	When required by the Engineer.
	402.02(C)	ASTM, ANSI, or AASHTO	Sewer Service	NA	SP	Specify if not the latest revision.
	402.07	End Pipe Marker	Sewer Service	NA	SP	Specify how to be marked.
	403.02	Pipe Size & Strength Classification	Storm Sewer	NA	PR or P	
	403.02(C)	ASTM, ANSI, AASHTO	Storm Sewer	NA	SP	Specify if not the latest revision.
	403.04(D)	Ring and Cover	Storm Sewer M.H.	NA	SP or P	Specify type used by owner.
	403.05	Inlet Frames & Grates	Storm Sewer	NA	SP or P	Specify type used by owner.
403.06(B)	Leakage Test	Storm Sewer	NA	SP	Specify if leakage test is required.	
501.04(A)	Type of Cement	Portland Cement Concrete	NA	SP	Specification & type.	
502.07	Reinforcing Bars	Method of Measurement	NA	SP	State if reinforcing bar is not to be a pay item.	
501.10	Portland Cement Concrete	Method of Measurement	NA	SP	State if concrete is not to be a pay item.	
601.04(D)	Density	Embankment	NA	SP	Specify density and method of determining.	
604.01	Details	Removal of Existing Pavement, etc.	NA	P or SP	Details & Limits.	

SP = Special Provisions: PR = Proposal: P = Plans

PERMIT TO CONSTRUCT

7-6-89

- New
- Renewal
- Modified

Permit No. 84-90RR

MA 4068

Seminole Mine No. 1, Sediment Control Plan
(Name of Facility)

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

Arch Mineral Corp.

c/o Ted J. Hall

P.O. Box 490

Hanna, WY 82327

to construct, install, or modify a sediment control facilities for areas undergoing reclamation (Ponds 1-3 thru 1-5, 1-8, 2-1 thru 2-20, 3-1 thru 3-12) facility according to the procedures and conditions of the application No. 84-90RR. The facility is located in Section 3, 4, 6, 8-16, 22-24, T22N, R83W, Section 1, 2, T22N, R84W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

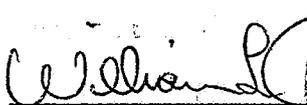
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:



WILLIAM GARLAND
Administrator, E. # 1479
Water Quality Division
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING



ROBERT E. SUNDIR
Director
Dept. of Environmental Quality
REGISTERED PROFESSIONAL ENGINEER
ROBERT E. SUNDIR
NO. 285
STATE OF WYOMING

June 25, 1984
Date of Issuance

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

cc: Robert Shanks
Arch Mineral Corp.
200 North Broadway
St. Louis, MO 82327

6-21-84

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Seminole Mine #1, Sediment Control Plan, Ponds #1-3 thru 1-5, 1-8, 2-1 thru 2-20, 3-1 thru 3-12, Carbon Co.

ARCHITECT OR ENGINEER: Robert Shanks, Arch Mineral Corp.
200 North Broadway, St. Louis, MO 63102

APPLICANT: Ted Hall, Arch Mineral Corp.
P.O. Box 490, Hanna, WY 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 84-90R

REVIEWING ENGINEER: Thomas S. Norman *T. Norman*

DATE OF REVIEW: June 19, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. We have not received enough copies of the plans. We only have 3 copies of the post-mining drainage control set and 4 copies of the design information set. We need 5 copies.
2. Arch Mineral is responsible for pond maintenance until LQD states that the ponds are no longer necessary for sedimentation control. Obtaining inflow samples may help LQD to determine when reclamation is complete. However, taking one sample during a small runoff event does not really establish reclamation. The applicant is responsible for all runoff up to the 10 year-24 hour storm event or until LQD determines otherwise.

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Seminole Mine #1, Sediment Control Plan, Ponds #1-3 thru 1-5, 2-1 thru 2-20, 3-1 thru 3-12, Carbon Co.

ARCHITECT OR ENGINEER: Robert Shanks, Arch Mineral Corp.
200 North Broadway, St. Louis, MO 63102

APPLICANT: Ted Hall, Arch Mineral Corp.
P.O. Box 490, Hanna, WY 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 84-90

REVIEWING ENGINEER: Thomas S. Norman *T.S. Norman*

DATE OF REVIEW: March 22, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Is pond #1-8 to be included on this application? It is shown on the plans but not identified on the application form.
2. More information is needed on the playas in order to have them acceptable. The capacity and limits of each must be established. Also identify a specific discharge point. The department must be assured that there will be adequate capacity for the 10 year-24 hour storm event. How will you determine how full they can get before they must be emptied?
3. What was the design flow used to determine the configuration of the runoff retention ditch? Also a minimum and maximum slope must be stated. A ditch without any slope does not pass any water while too much of a slope will cause erosion problems if not stabilized.

Figure 6.5 was not shown as stated in the design information.

4. The applicant must submit a plan of operation on how the water from the ponds will be removed. The 37 ponds not including the playas have over 100 acre-feet of capacity. The NPDES requires the ponds to be emptied within 10 days after the water meets discharge parameters.

Also how will the water be removed down to the dead pool without agitating the sediments.

5. Provide more detail on the riprap, i.e. size ranges, depth, dimensions on pond, etc.
6. Concerning Section 6.6.2, 5th paragraph, it is a correct statement that Arch is not responsible for precipitation events that exceed the 10 year-24 hour event. But this is only true if the ponds are emptied after every rain event as required in the NPDES permit.

-
7. In checking with the computer staff, we need 5 copies of the plans and specifications so that final authorized copies can go to WQD permanent file, owner, engineer, Land Quality Division, and field copy.
 8. On Section 6.6.4, what do you mean by "cease maintenance of the ponds" and how many samples will you take to determine influent quality?

4-9-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-91R
SEE CONDITIONS
MA 14068

Seminole Mine #2, Pond #2
(Name of Facility)

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

Arch Mineral Corp.

c/o Ted Hall

P.O. Box 490

Hanna, WY 82327

to construct, install, or modify a sediment control pond facility according to the procedures and conditions of the application No. 84-91R. The facility is located in NW SW Section 16, T23N, R81W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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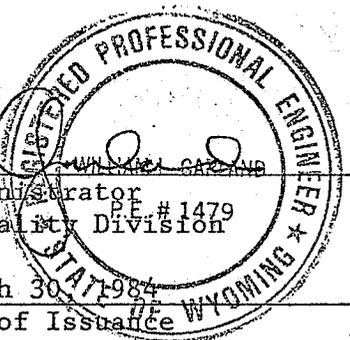
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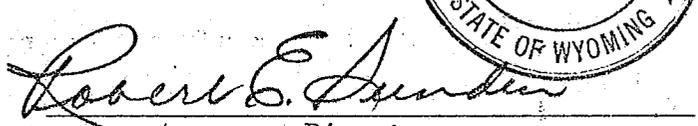
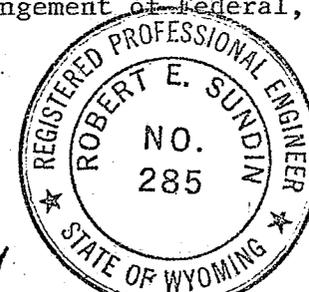
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Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
P.E. # 1479
March 30, 1984
Date of Issuance



Director
Dept. of Environmental Quality


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

CONDITIONS TO PERMIT TO CONSTRUCT

1. If, as the result of any precipitation or runoff event, the volume of water held in the pond exceeds the permanent pool, the water in the pond shall be analyzed at a minimum of once every five (5) days. When the quality of the water meets or exceeds the provisions of the NPDES permit, the quantity in excess of the permanent pool shall be discharged within ten (10) days.
2. The pond shall be operated and maintained to have at least one year's worth of sediment storage available at all times.

cc: Robert R. Pixler
P.O. Box 530
Hanna, WY 82327

3-22-84

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Seminoe #2, Pond #2, Carbon Co.

ARCHITECT OR ENGINEER: Robert Pixler
P.O. Box 530, Hanna, WY 82327

APPLICANT: Arch Mineral Corporation, c/o Ted Hall
P.O. Box 490, Hanna, WY 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 84-91

REVIEWING ENGINEER: Thomas S. Norman *T. Norman*

DATE OF REVIEW: March 21, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The applicant must submit a plan of operation of how the water from the pond will be removed. If pumps are proposed, what is their capacity and are they expected to be used to drain other ponds? If so, what ponds and their capacity?
2. How will the water be removed down to the dead pool without agitating the sediments?
3. Please provide more detail on the "pond lining", i.e. type, size, ranges, depth, etc.

10-5-84



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 5, 1984

Mr. William Rueb, Director
Southwest Hide Co.
P.O. Box 388
Torrington, WY 82240

RE: Wastewater Disposal Facilities, 84-92, Southwest Hide Company

Dear Mr. Rueb:

We are returning your as built plans that you submitted on Southwest Hide Company, DEQ/WQD Ref. No. 84-92. This project was replaced with the new submittal on Karem By-Products, DEQ/WQD Ref. No. 84-474, which was permitted on October 2, 1984.

Sincerely,

Theodore D. Coyer
Theodore D. Coyer, P.E.
Engineering Evaluator

TDC/nc
Enclosures

5-3-84



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

April 30, 1984

Mr. William Rueb, Director
Southwest Hide Co.
P.O. Box 388
Torrington, WY 82240

RE: Wastewater Disposal Facilities, 84-92, Southwest Hide Company

Dear Mr. Rueb:

The as-built plans you submitted are unacceptable. The plans must be prepared by an engineer registered to practice in Wyoming. The plans must show what was actually built.

Also, the percolation rate was not indicated. The percolation rates should be run and the results submitted.

Mr. Williams and I will be visiting your facility on May 10, 1984 to sample your wastewater ponds. We hope that you can be there on that date. If not, could you arrange for someone else to allow us access?

If you have any questions about this, feel free to contact me about them.

Sincerely,

Theodore D. Coyer, P.E.
Engineering Evaluator

TDC/nc

cc: Tom Williams
LeRoy Feusner

ing 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, 165 East Railroad Ave., Green River, Wyoming 82935; telephone, 875-6911.

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:


WILLIAM GARLAND
REGISTERED PROFESSIONAL ENGINEER
No. 1479
Water Quality Division
STATE OF WYOMING
April 30, 1984
Date of Issuance


ROBERT E. SUNDIN
REGISTERED PROFESSIONAL ENGINEER
NO. 285
STATE OF WYOMING
Director
Dept. of Environmental Quality

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

JH:mpm

cc: Roger L. Raeburn
Pacific Power & Light Co.
920 S. W. Sixth Avenue
Portland, OR 97204

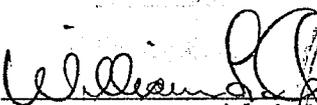
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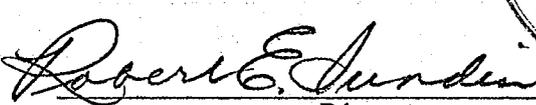
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AUTHORIZED BY:

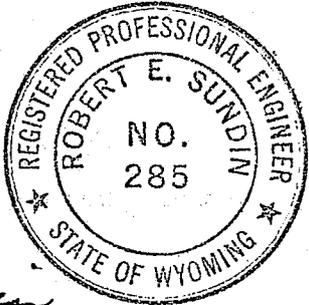


Administrator
Water Quality Division
May 1, 1984
Date of Issuance





Director
Dept. of Environmental Quality



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

JB:mpm

cc: Dale E. Peterson.
Town of Mountain View
P. O. Box 249
Mountain View, WY 82939

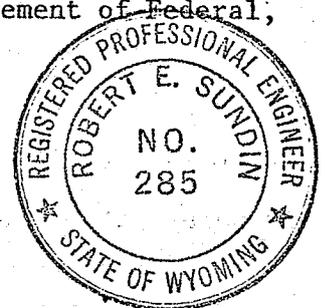
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

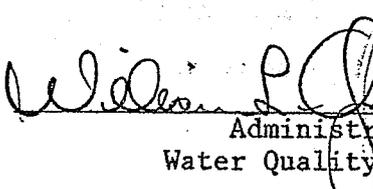
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 165 East Railroad Ave., Green River, Wyoming 82935; telephone, 875-6911.

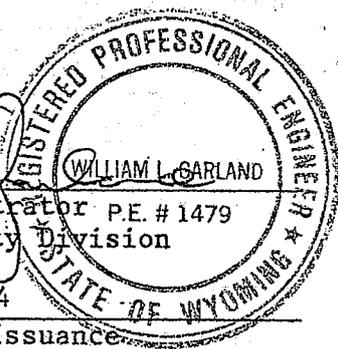
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

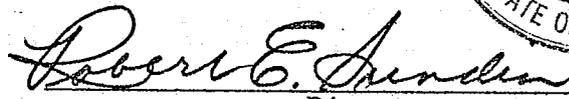
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:




WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
May 1, 1984
Date of Issuance

A circular seal for a Registered Professional Engineer. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "WILLIAM L. GARLAND".


Robert E. Sundin
Director
Dept. of Environmental Quality

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

JB:mpm

cc: Roger L. Raeburn
Pacific Power & Light Co.
920 S.W. Sixth Avenue
Portland, OR 97204

4-23-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-96R
MA 14068

Torrington - Water Distribution Improvements - Contract #3
(Name of Facility)

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

Town of Torrington

Box 250

Torrington, WY 82240

to construct, install, or modify a municipal water distribution system facility according to the procedures and conditions of the application No. 84-96R. The facility is located in Section 3, 4, 9, 10, T15N, R60W in the County of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

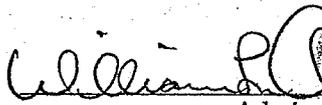
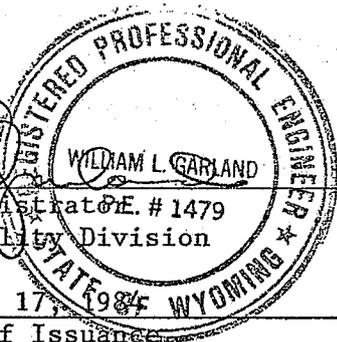
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

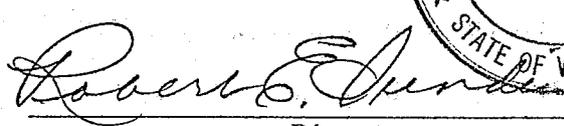
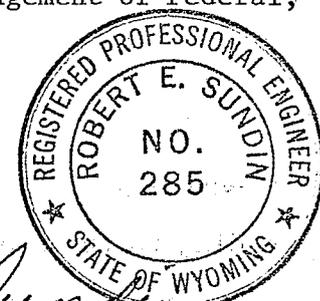
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division

April 17, 1985
Date of Issuance


Director
Dept. of Environmental Quality


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

cc: John T. Baker
Baker, Sweeney & Assoc.
1915 First Ave.
Scottsbluff, NE 69361

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Torrington Water Distribution Improvements, Goshen Co.

ARCHITECT OR ENGINEER: John Baker, Baker, Sweeney & Associates
1915 First Ave., Scottsbluff, NE 69361

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

WATER QUALITY DIVISION REFERENCE NUMBER: 84-96

REVIEWING ENGINEER: Thomas S. Norman *T. S. Norman*

DATE OF REVIEW: March 26, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application form was not submitted.
2. Three copies of plans and specifications are required.
3. An engineering design report is necessary to evaluate and review this project. Please provide at a minimum:
 - a. Reasons for enlarging pipes and design calculations for selecting the specific sizes.
 - b. System design pressures (minimum and maximum) for each section.
 - c. Design flow rates (maximum hour and maximum day) for each section.
 - d. Information on West C Booster Pump Station that assures positive pressures will be maintained in the water main.
4. Profiles were not shown on the water lines which are necessary to show other utilities, high points in the water lines, special structures, etc.
5. Is the booster pump station covered under a separate project as no details were provided? It is difficult to authorize the pipelines without any design information on the pump station.
6. A detail was not provided on the air relief valve.
7. Specifications
 - a. SCP #19 and #32. There is a contradiction on minimum pipe cover.
 - b. Spec. B-4. Is polyethylene encasement required on ductile-iron pipe?
 - c. Spec. G-3. Where are the installation instructions for PVC pipe? This only covers ductile iron pipe.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-97R
MA 14068

Torrington's Elevated Water Storage Tank
(Name of Facility)

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

Town of Torrington

Box 250

Torrington, WY 82240

to construct, install, or modify a municipal elevated water storage tank facility according to the procedures and conditions of the application No. 84-97R. The facility is located in Section 4, T24N, R61W in the County of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

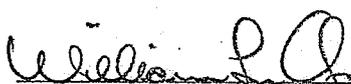
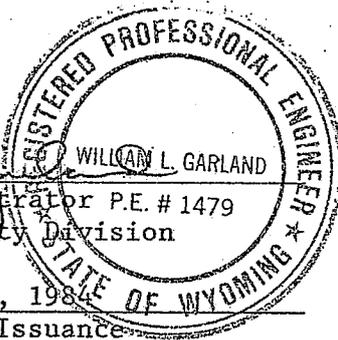
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

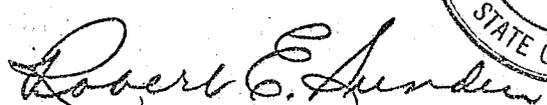
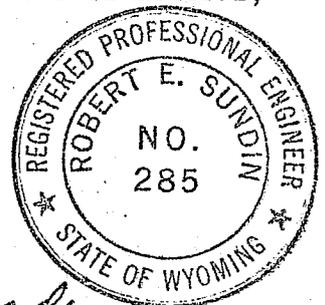
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
APR 6 1988
Date of Issuance



Director
Dept. of Environmental Quality


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

cc: Brian R. Sweeney
Baker, Sweeney & Associates.
1915 First Avenue
Scottsbluff, NE 69361

3-29-84

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
1111 East Lincolnway
Cheyenne, Wyoming 82002

PROJECT: Torrington, Elevated Water Storage Tank, Goshen Co.

ARCHITECT OR ENGINEER: John Baker, Baker, Sweeney & Associates
1915 First Ave., Scottsbluff, NE 69361

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

WATER QUALITY DIVISION REFERENCE NUMBER: 84-97

REVIEWING ENGINEER: Thomas S. Norman *TS Norman*

DATE OF REVIEW: March 27, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application form was not submitted.
2. Three copies of plans and specifications are required.
3. An engineering design report is necessary to evaluate the storage tank in relation to the entire water system and what problems the tank is supposed to overcome. Basic information should include how the tank was sized, existing storage capacity, existing supply capacities, fire flow demands, average and maximum daily flows, pressure ranges the tank is to supply, etc.
4. Profiles were not provided on the plans for the water lines.
5. How will the water level be controlled in the tank?
6. Does the 12-inch overflow line have capacity in excess of the 18-inch inlet line?

4-12-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-98
 Ref.No. 82-543
 MA 14068

Wardwell Water System Improvements - Phase III
 (Name of Facility)

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

Wardwell Water & Sewer District

P.O. Box 728

Mills, WY 82644

to construct, install, or modify a potable water main facility according to the procedures and conditions of the application No. 84-98. The facility is located in Sections 17 and 29, T34N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

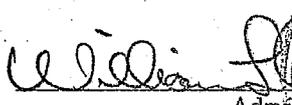
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002; telephone, 777-7781.

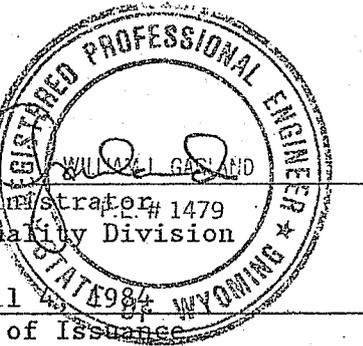
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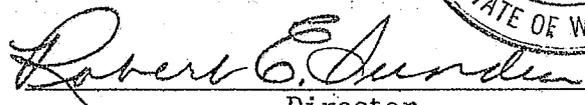
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AUTHORIZED BY:

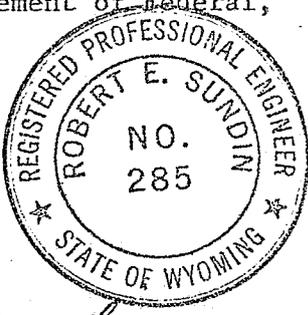


WILLIAM J. GARLAND
Administrator # 1479
Water Quality Division
April 4, 1984
Date of Issuance





ROBERT E. SUNDIN
Director
Dept. of Environmental Quality



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

cc: Eugene Calvert
Russell L. Donley & Associates
240 South Wolcott, Suite 202
Capser, WY 82601

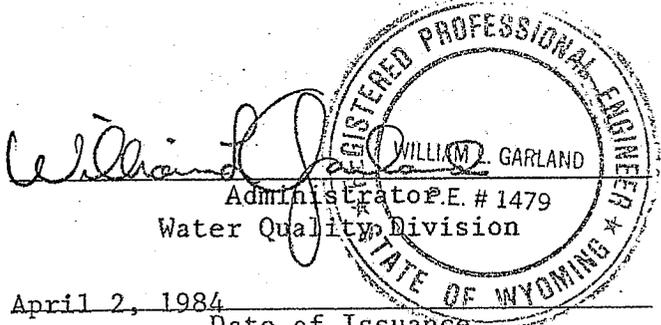
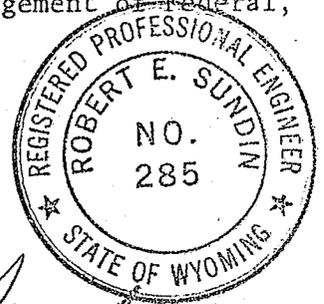
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:



Robert E. Sundin

Director
Dept. of Environmental Quality

April 2, 1984
Date of Issuance

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

EB:dcn