

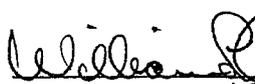
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

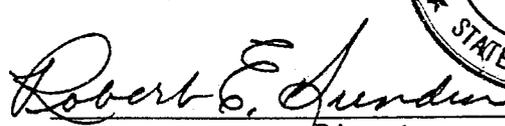
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 L. GARLAND
Administrator 1479
Water Quality Division
STATE OF WYOMING

October 25, 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.

JH:dcn

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-502R

SUPERIOR PUMPING, TRANSMISSION
 AND WELL FACILITIES
 (Name of Facility)

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

Town of Superior
P. O. Box 307
Superior, WY 82945

to construct, install, or modify a well house and pumping facilities plus 14,000 feet
of ductile iron transmission main and modify existing booster pumping station
facility according to the procedures and conditions of the
 application No. 84-502R. The facility is located in Section 14, 16, 19, 21, 22, 23, and 26, T21N, R101W
in the County of Sweetwater,
 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-

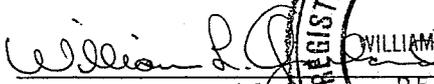
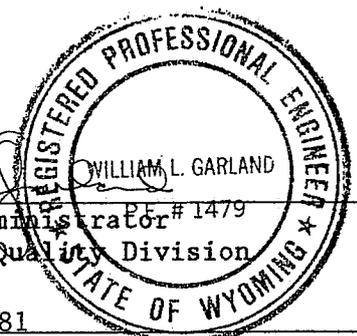
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

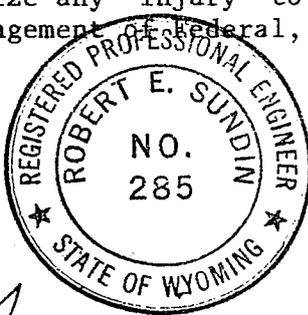
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division



Director
Dept. of Environmental Quality


November 14, 1981
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

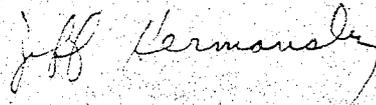
PROJECT: Superior Pumping, Transmission & Well Facilities

ENGINEER: James M. Montgomery, Consulting Engineers, Inc.
12200 E. Iliff Ave., Suite 108
Aurora, CO 80014
Attention: Vance G. Lee

OWNER: Town of Superior
P. O. Box 307
Superior, WY 82945

WATER QUALITY DIVISION REFERENCE NUMBER: #84-502

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: October 26, 1984

ACTION: Not authorized.

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

1. The application form (enclosed) must be signed by an authorized representative of the Town of Superior. The engineer can't sign for the owner.
2. Please submit two additional copies of the plans and specifications. A total of three copies are required.
3. What are the design pressures in the transmission line under design flow?

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

JH:dcn

Enclosure

ABC

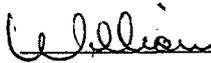
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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted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

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AUTHORIZED BY:


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


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

Director
Dept. of Environmental Quality

October 16, 1984
Date of Issuance

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

* CONDITION ON PERMIT *

Your property is located within the City of Powell's planning area for possible future service by the Powell wastewater collection system. The permit is issued with the condition that the permitted septic tank/leach field be abandoned and connection be made to the Powell collection system when service is made available to your property.

EB:dcn

cc: City of Powell--Attention: Mr. Dick Myrick
Tim Morrison, Park County Planner

PERMIT TO CONSTRUCT

Permit No. 84-504R

- New
- Renewal
- Modified

Medicine Bow Mine - Facility Area Sedimentation Pond
(Name of Facility)

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

Arch Mineral Corp.

c/o Scott Palmer

P.O. Box 460

Hanna, WY 82327

to construct, install, or modify a sedimentation control facility facility according to the procedures and conditions of the application No. 84-504R. The facility is located in SE1/4 Section 19, T23N, 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.

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.

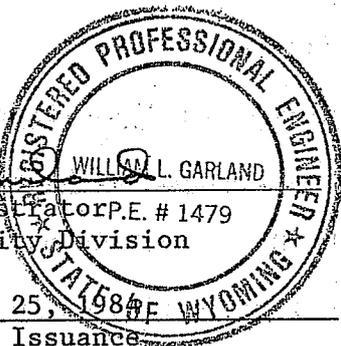
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

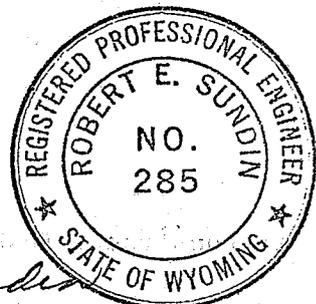
William L. Garland



Administrator P.E. # 1479
Water Quality Division

October 25, 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: Bob Pixler
Arch Mineral Corporation
P.O. Box 460
Hanna, WY 82327

10-18-84

Review of Plans and Specifications

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

PROJECT: Medicine Bow Coal Mine, Facility Area Sedimentation Pond, Carbon Co.

ARCHITECT OR ENGINEER:

APPLICANT: Scott Palmer, Arch Mineral
Western Division, Hanna, WY 82327

WATER QUALITY DIVISION REFERENCE NUMBER: 84-504

REVIEWING ENGINEER: Thomas S. Norman *TS Norman*

DATE OF REVIEW: October 16, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An application form needs to be submitted.
2. Four copies of the plans and specifications are necessary and must be signed by a Wyoming professional engineer.

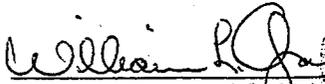
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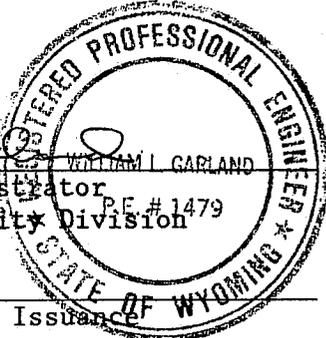
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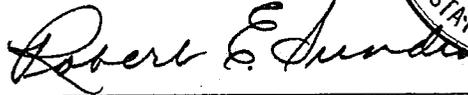
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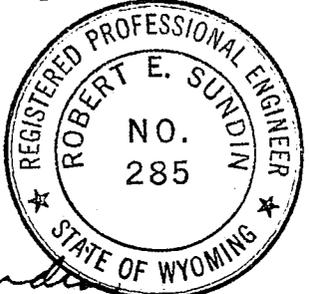
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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator
Water Quality Division
PE # 1479




ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


October 16, 1984
Date of Issuance

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

* CONDITION ON PERMIT *

This permit is issued with the requirement that the Sweetwater County Sanitarian is notified of the day construction is scheduled to commence and the estimated completion date of this project. Final inspection of the installed system may be required before backfilling.

The authorized representative in your area is:

Al Emden, Sweetwater County Sanitarian
205 East Railroad Avenue
Green River, Wyoming 82935

307-875-2611 Extion 278

JH:dcn

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-506R
SEE SPECIAL CONDITIONS

Wegner Residence
(Name of Facility)

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

Don Wegner

P.O. Box 92

Hillsdale, WY 82606

to construct, install, or modify a small wastewater facility facility according to the procedures and conditions of the application No. 84-506R. The facility is located in Section 6, T14N, R63W 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.

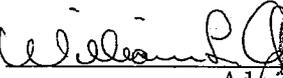
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

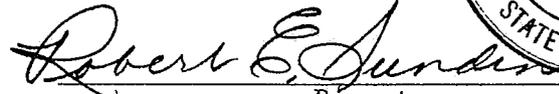
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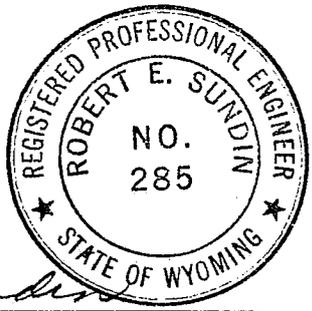
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
November 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. The septic tank shall have a liquid capacity of at least 1250 gallons.
2. This permit is for the proposed system only. Two homes shall not be connected to the existing system.
3. The permittee shall notify Don Pack, Laramie County Environmental Health Unit, 1700 Snyder Avenue, Cheyenne, WY 82001, phone number 638-8545, 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.

cc: Henry R. Sostrom, AVI, p.c., 1700 Westland Road, Cheyenne, WY 82001
Don Pack, Laramie County Environmental Health Unit

10-19-84

Review of Plans and Specifications

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

PROJECT: Wegner Residences, Laramie Co.

ARCHITECT OR ENGINEER: Henry F. Sostrom, P.E., AVI
1700 Westland Road, Cheyenne, WY 82001

APPLICANT: Don Wegner
P.O. Box 92, Hillsdale, WY 82060

WATER QUALITY DIVISION REFERENCE NUMBER: 84-506

REVIEWING ENGINEER: Theodore D. Coyer, P.E. *Theodore D. Coyer*

DATE OF REVIEW: October 17, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. How many bedrooms are there in each mobile home? Designing the system for 350 gpd/home is acceptable for mobile home parks only. In this situation, you must design on the basis of bedrooms.
2. What is the depth to the seasonally high groundwater table?
3. The proposal to connect both mobile homes on the existing evapotranspiration beds is unacceptable. This system is much too small to provide the winter storage needed.
4. Show a detail as to how the inlets will be arranged at the septic tank. We highly recommend that there not be bends at the tank inlet. If bends are necessary, then cleanouts will be necessary.

10-19-84



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 17, 1984

Julia Edwards
Rt. #1, Box 370
Laramie, WY 82070

RE: Septic Tank/Soil Absorption System, Application No. 84-507

Dear Ms. Edwards:

The Department of Environmental Quality, Water Quality Division, has reviewed your application package (84-507, old permit #05-21-82) for a permit to construct a septic tank/soil absorption system for your residences located on Lots 2 and 3, Block 34, West Laramie, Section 31, T16N, R73W, Albany County. The Water Quality Division has determined that the system meets the minimum design standards.

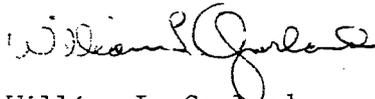
One condition that is placed on your system is:

The intent of the construction authorized by this letter is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Laramie Step I Wastewater Facility Plan requires that treatment be provided through a regional system. The facilities authorized by this letter will be operated until August 1, 1987 or until services are available through the approved regional system, whichever is sooner. These facilities will then be abandoned or integrated into the regional system in accordance with the requirements of the Facility Plan, unless the City of Laramie and Albany County jointly authorize an additional three year extension.

Julia Edwards
October 17, 1984
Page 2

Since a permit to construct cannot be issued for facilities that are already constructed, this letter will serve as authorization for your system.

Sincerely,



William L. Garland
Administrator

WLG/TSN/nc
Enclosures

cc: Ted Gertsch, Gertsch/Baker & Associates, P.O. Box 880, Laramie, WY 82070
Tom Curren, Albany Co. Planning Office, 405 Grand Ave., Laramie, WY 82070

PERMIT TO CONSTRUCT

New

Permit No. 84-508

Renewal

Modified

CULBERTSON AVE. & 14TH ST. SEWER RELOCATION

(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 8" PVC sewer line relocation (at same grade)

_____ facility according to the procedures and conditions of the

application No. 84-508. The facility is located in _____

Section 25, T47, R93

_____ 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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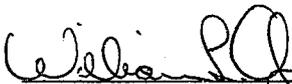
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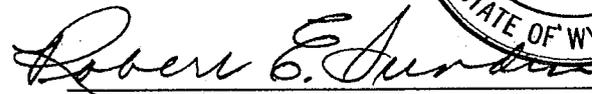
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AUTHORIZED BY:


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

October 17, 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.

EB:dcn

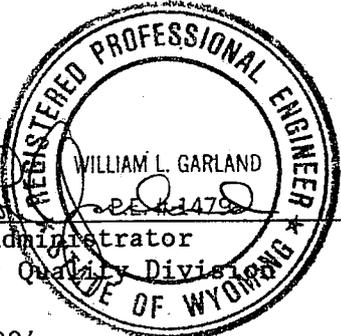
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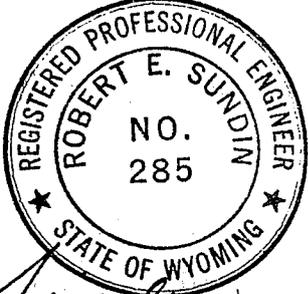
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AUTHORIZED BY:



WILLIAM L. GARLAND
No. 1479
Administrator
Water Quality Division
STATE OF WYOMING



Director
Dept. of Environmental Quality

October 18, 1984
Date of Issuance

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

EB:dcn

MEMORANDUM

TO: #84-509R File
FROM: Ed Baruth *ED*
DATE: October 18, 1984
SUBJECT: Telephone Submittal of Data

On October 18, 1984 Bill Locke of ARIX in Riverton verified that the water pressure available to the DeLozier Brothers project would exceed 38 psi.

Permit to Construct #84-509R was authorized.

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.

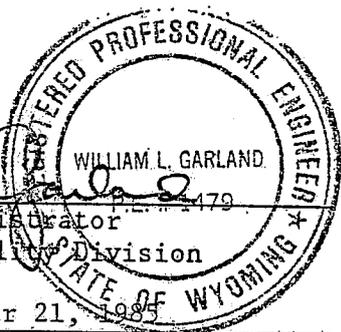
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

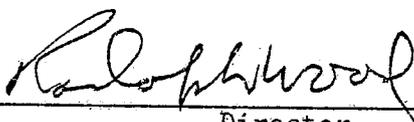
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Administrator
Water Quality Division
October 21, 1985
Date of Issuance





Director
Dept. of Environmental Quality

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

xc: Michael G. McDill
McDill Engineering
400 West Boxelder Road
Gillette, WY 82716

CONDITIONS ATTACHED TO
PERMIT TO CONSTRUCT FOR BUNKER HILL SUBDIVISION
WATER AND SEWER SYSTEMS
WATER QUALITY DIVISION REFERENCE NO. 84-510RR

The applicant will supply the following information to the Department of Environmental Quality, Water Quality Division, Sheridan Office as soon as it becomes available but prior to the water supply system being put into service:

- Profile drawing of water well (verify casing vent, access port, and check valve).
- Well log.
- Well disinfection specification.
- Plumbness and alignment tests.
- Well pump curve, static head.
- Yield and drawdown tests including pumping rates and duration.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 COFFEEN AVE., SUITE 601
SHERIDAN, WYOMING 82801

PROJECT: Bunker Hill Subdivision Water and Sewer
System Facilities

ARCHITECT OR ENGINEER: Mike McDill
400 West Boxelder
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBER: 84-510R

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: August 8, 1985

ACTION: Not Authorized

COMMENTS:

1.) Lift Station Comment #4:

The regulations are specific in requiring valves to be outside of wet-wells. Either a valve box or a separate well have to be used.

2.) Treatment Plant Comment #7:

If the discharge pipe is easily accessible to the public, a sign warning of the wastewater discharge should be placed adjacent to it.

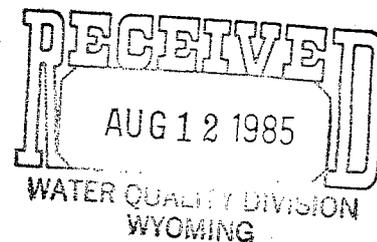
3.) Water Distribution Comment #3:

I believe the pump curve for the booster pumps indicates a pressure of 59 feet at a flow of 40 gpm not 59 psi. Is that correct? 59 feet would not be sufficient pressure.

4.) Water Well:

The permit will be conditioned to require this information when it is available.

5.) You once suggested that package plants such as this would achieve better treatment if there was a larger surge tank upstream of them for flow equalization. Do you plan to provide this?



*Department of Environmental Quality**Water Quality Division*2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

June 3, 1985

Mr. Darwin Dyck
McDill Engineering
400 West Boxelder
Gillette, Wyoming 82716

Dear Mr. Dyck:

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: Bunker Hill Subdivision Water and Sewer Facilities

DEQ/WQD Reference Number: 84-510

Engineering Consultant: McDill Engineering

DEQ/WQD Review Engineer: Rich Ruyle

Date of DEQ/WQD Review: December 3, 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 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. Darwin Dyke
June 3, 1985
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 receipt of this letter, follow-up action will be taken.

Sincerely,



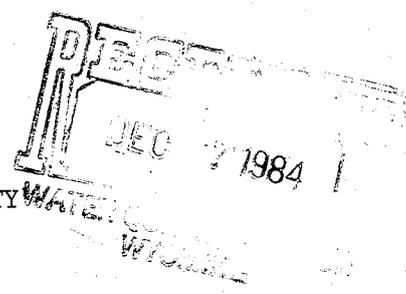
Rich Ruyle
District Supervisor

RR:ls

Attachment: Review of 12/3/84

xc: Norma Coulson

REVIEW OF PLANS AND SPECIFICATIONS



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

PROJECT: Bunker Hill Subdivision Water & Sewer System Facilities

ARCHITECT OR ENGINEER: McDill Engineering
Attention: Darwin Dyck
400 W. Boxelder
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBER: 84-510

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: December 3, 1984

ACTION: Not Authorized

COMMENTS:

In general, the submittal lacked an Engineering Design Report and some appropriate information in the Plans and Specifications. Please refer to Sections 6 and 7 in the enclosed Chapters XI and XII to get an idea of our general expectations. Specific comments follow.

Lift Station:

- 1.) Specific performance data is needed for the pumps, i.e. pump curve, required head, NPSH available, and velocity in discharge piping.
- 2.) As I recall, there is high groundwater at this location. Will hydrostatic uplift pressures be a problem for the lift station or package plant?
- 3.) Is there any electrical equipment in the wet well? If so, it must be rated for Class 1, Division 1, Groups c and d hazardous environments.
- 4.) The check valve and gate valve in the discharge piping need to be outside the wetwell.
- 5.) Alternative power is not required but a contingency plan in the event of power failure should be formulated.
- 6.) Details of the pump control system are needed. A separate start/stop device and manual override for each pump are required.

- 7.) Details of the alarm system are needed. An audio and visual alarm are required.
- 8.) If permanently installed ventilation is not provided, a portable blower must be on hand to exhaust the wetwell during access.

Treatment Plant:

- 1.) Since there is essentially no isolation distance from inhabited areas provided, special provisions may be requested to minimize nuisances. I will discuss this with my supervisors.

Are there any habitants to the east of the facility?

- 2.) Sludge return rates should be variable within 25 to 100 percent of the average design flow. Is this the case?
- 3.) The air flow must be controlled and metered separately to the aeration tank, sludge holding tank, surge tank, and airlift pumps. This is not apparent from Clow's specifications.

There must also be pressure gages downstream from each blower.

- 4.) What is the purpose of the airlift pump in the surge tank if two submersible pumps are already being used?
- 5.) How will sludge be wasted from this facility?
- 6.) How will the effluent flow be measured?
- 7.) Details of the discharge pipe and discharge point are needed. Will the discharge pipe cross the railroad?
- 8.) The chlorinator must be supplied with clean water. This is not shown on the plans.
- 9.) The feed point for chlorination must provide for adequate mixing in the contact chamber. Please verify. Calculations for sizing the chlorinator should be included.

Water Distribution System:

- 1.) Gate valves are required at 800 foot intervals on the waterline. Another valve is needed between lots 26 and 33.
- 2.) The water-sewer crossings near lots 27 and 32 need to be shown on the profile drawings. Include any necessary special provisions.

- 3.) Calculations to verify that there will be adequate pressure in the distribution system are needed. 35 psi under normal flow conditions and 20 psi under all conditions of flow are necessary.

Storage Tank and Pump House:

- 1.) AWWA specifications are needed for the painting of the tank and the disinfection of the tank.
- 2.) Sizing calculations are needed for the storage tank, booster (centrifugal) pumps, and well pump.

Fire storage and fire flows should be based on recommendations by the State Fire Marshall or local fire agency. If the fire flow requirement cannot be supplied by gravity, then an alternative power source will be necessary.

The normally required information is needed for the booster pumps- pump curve, total dynamic head at design flow, etc. Details of the pump controls should also be included.

- 3.) Some type of ventilation is needed for the pump house. Intermittent ventilation starting upon entrance to the pump room is adequate.
- 4.) Pressure gages are needed on the discharge line of the booster pumps. Do the Murphy gages provide this information?
- 5.) The chlorine room exhaust fan must provide one complete air change every two minutes. Please verify.
- 6.) Chapter XIII calls for a chlorinator capacity sufficient to apply a 10 mg/l dose during maximum flow. Please verify that the chlorinator feed rate will adequately meet chlorine demand.
- 7.) Where will chlorine be applied to the water supply? It is not clear to me whether chlorine will enter the storage tank.

A flow summary or diagram for the piping in the pump house would be helpful.

Water Well:

- 1.) A profile drawing of the well is needed. Review Section of Chapter XIII to see what information should be included.
- 2.) Information about the well that is needed includes:

Review of Plans and Specifications

Bunker Hill Subdivision Water & sewer System Facilities

December 3, 1984.

Page Four

- Well log.
- Water quality analysis
- Well disinfection specification
- Plumbness and alignment tests
- Pump curve, static head
- Construction and casing details and specifications
- Presence of casing vent, access port, and check valve
- Yield and drawdown tests including pumping rates and duration

Feel free to call me with any questions you have.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-511R

Jess's Hat Six Truck Plaza
(Name of Facility)

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

Jess Manzanrez
P.O. Box 1760
Casper, WY 82609

to construct, install, or modify a commercial wastewater collection system facility according to the procedures and conditions of the application No. 84-511. The facility is located in Section 9, T33N, R78W 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.

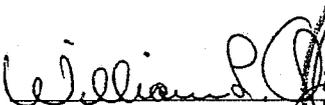
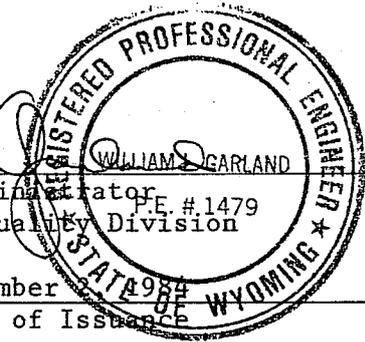
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

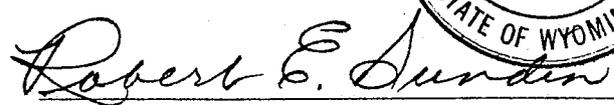
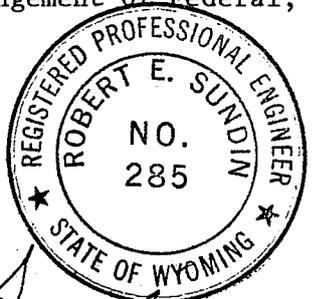
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 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 D. GARLAND
Administrator
Water Quality Division
P.E. #1479
November 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: E. Gene Brady
Brady Engineering Co. Inc.
P.O. Box 2521
Grand Island, NE 68802

Review of Plans and Specifications

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

PROJECT: Jess's Hat Six Truck Plaza, Natrona Co.

ARCHITECT OR ENGINEER: Gene Brady, Brady Engineering Co. Inc.
P.O. Box 2521, Grand Island, NE 68802

APPLICANT: Jess Manzanarez
P.O. Box 1760, Casper, WY 82609

WATER QUALITY DIVISION REFERENCE NUMBER: 84-511

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

DATE OF REVIEW: October 25, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. An air release valve is necessary at the high point near station 99+20. An alternative would be to take out this high point and level the grade between station 98+00 and 100+00.
2. The head loss calculations through the 2-1/2 inch pipe were based on a friction factor of C=150. A friction factor of C=100-120 is more realistic for sewage. Also how did you obtain the factor of 0.91 used to differentiate between class 160 and class 200?



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 13, 1985

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

RE: DEQ/WQD Ref. No. 84-512, City of Cheyenne, Wellfield Grant Application

Gentlemen:

Your application is considered inactive and is being returned under the assumption that the applicant does not wish to proceed with the permit to construct 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 this project has already been constructed, it is your responsibility to immediately contact this office for further instruction. If you wish to reconsider construction of this facility, then application procedures pursuant to Chapter III, Water Quality Rules & Regulations, must be followed.

Sincerely,

William L. Garland
Administrator

WLG/CGN/nc

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 84-512

Date Submitted For Review OCTOBER 9, 1984

Name and Location of Facility CITY OF CHEYENNE WELLFIELD GRANT APPLICATION
CHEYENNE BOARD OF PUBLIC UTILITIES
P.O. BOX 1469
CHEYENNE, WY 82003

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 Thomas R. Williams
Title GROUNDWATER COMPLIANCE SPECIALIST
Date 10/18/84

Approved 10/19/84
(Date)

ajm
(Signed)
Groundwater Control Supervisor



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: A.J. Mancini, Groundwater Control Supervisor
FROM: Thomas R. Williams, Groundwater Compliance Specialist
DATE: October 19, 1984
SUBJECT: City of Cheyenne Wellfield Grant Application

I have reviewed the City of Cheyenne Wellfield Grant Application and the accompanying report entitled, "Groundwater System Modeling and Optimization of Pumping Patterns for Cheyenne Municipal Well Fields." I have no comments regarding the preferred alternative of upgrading three existing municipal water supply wells. My only comment regarding the addition of a new water supply well is that it is installed in accordance with Chapter XII of the Wyoming Department of Environmental Quality, Water Quality Rules and Regulations.

While speaking with Dale Horneck of the Peacekeeper Planning Assistance Office, I learned that the plan to upgrade the three wells had been dropped in lieu of obtaining all of the additional water from the single new water supply well. Since this alternative was not addressed as a part of the groundwater modeling study, I do not have enough information to adequately review this alternative and cannot make a recommendation to accept or reject it.

84-512



ED HERSCHLER
GOVERNOR

*Department of Environmental Quality
Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: A.J. Mancini, Groundwater Control Supervisor
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SUBJECT: City of Cheyenne Wellfield Grant Application

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While speaking with Dale Horneck of the Peacekeeper Planning Assistance Office, I learned that the plan to upgrade the three wells had been dropped in lieu of obtaining all of the additional water from the single new water supply well. Since this alternative was not addressed as a part of the groundwater modeling study, I do not have enough information to adequately review this alternative and cannot make a recommendation to accept or reject it.

11-7-84

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-513
SEE CONDITIONS ATTACHED TO THIS PERMIT

Stonebridge Unit #1-15
(Name of Facility)

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

Pend Oreille Oil & Gas Co.

1300 Main Street, Suite 1203

Houston, TX 77002

to construct, install, or modify a drilling reserve pit facility according to the procedures and conditions of the application No. 84-513. The facility is located in SE1/4 SW1/4 Section 15, T52N, R105W in the County of Park, in the State of Wyoming.

This permit shall be effective for a period of one 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.

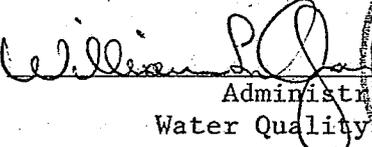
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

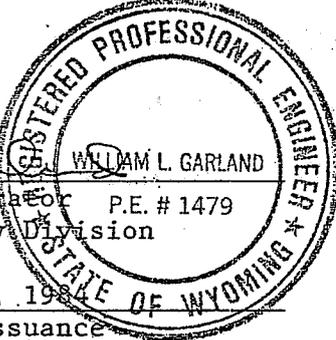
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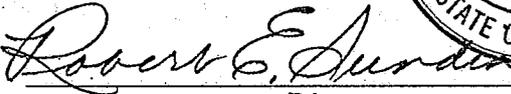
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

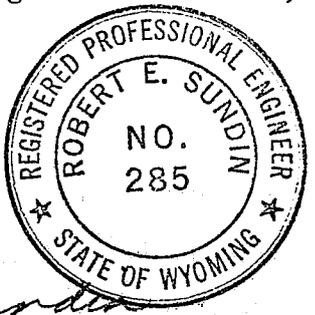


Adminisrator P.E. # 1479
Water Quality Division
OCTOBER 26, 1984
Date of Issuance





Director
Dept. of Environmental Quality



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

This permit authorizes you to dispose of 168,000 gallons of drilling fluids wastewater on the surrounding _____ acres or at NW1/4 NE1/4 Section 27, T52N, R105W, comprising approximately 25 acres, a total liquid application of 0.25 inches.

CONDITIONS TO PERMIT TO CONSTRUCT 84-513

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. To assess the long term effects of the wastewater application on the soil and its relation to revegetation success on denuded areas, the seed mix (% of selected species), seed rate (lbs. of bulk seed/acre and % pure live seed), mulch and fertilizer preferred by the landowner-lessee or land management agency should be forwarded to E. J. Fanning, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 W. 25th, Cheyenne, Wyoming 82002, within 30 days of receipt of this permit.
5. After dewatering by land application, the permittee must demonstrate, before backfilling, that the residual solid wastes will remain hydrologically isolated, i.e. by virtue of the surrounding soil matrix or bedrock, or by installation of artificial clay liners and/or caps. Failure to demonstrate this will necessitate the excavation of the pit wastes and haulage to an approved disposal site.

If wastes are to be retained in the pit, an analysis of a mud sample, composited by the same techniques as described in section 8 of the one-time land application form and the DEQ sampling card, must be submitted in a timely manner to the responsible agency personnel (E. J. Fanning).

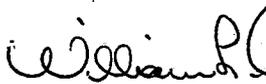
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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
PE # 1479
Administrator
Water Quality Division
STATE OF WYOMING
April 1, 1985
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

This disposal facility is to receive produced water only from the wells referenced in the application. These wells are: Mildred Carr #40-34, Ackerman #12-34, and #4027 Hill.

xc: Dick Steedley
Steedley & Associates
P.O. Box 971
Basin, Wyoming 82410

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

*Norma
Ret to Shainbar
3/25/85*

APPLICATION NUMBER 84-514R

DATE SUBMITTED FOR REVIEW 3-19-85

NAME AND LOCATION OF FACILITY Hershey Oil - Carr, Ackerman WW System
See 34, T45N, R80W
Johnson Co

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

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Richard Lenny
TITLE Eng. Eval
DATE 3-25-85

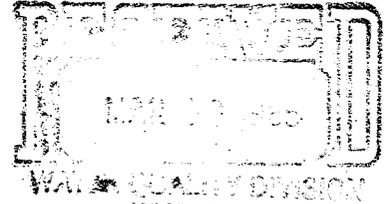
ACCEPTED FOR RECORD 3/25/85
(Date)

AGM
Groundwater Control Supervisor

Norma

REVIEW OF PLANS AND SPECIFICATIONS

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



PROJECT: Hershey Oil - Carr, Ackerman Wastewater System

ARCHITECT OR ENGINEER: Debra Killough
Steedley and Associates
P.O. Box 971
Basin, Wyoming 82410

WATER QUALITY DIVISION
REFERENCE NUMBER: 84-514R

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: March 15, 1985

ACTION: Not Authorized

COMMENTS:

- 1.) Riprap is needed not just at the discharge point from the final pit but also at the inlet points to final, secondary, and primary pits.
- 2.) We recently received the analysis for water well #2 at the pit site. Our groundwater section in Cheyenne is reviewing your submittal for possible impact to groundwater.
- 3.) Any questions about modifying your discharge permit to include the other wells you mention should be directed to John Wagner or Kathy Bauman in Cheyenne at 777-7082.
- 4.) A means of flow measurement for the discharge will be needed if it exceeds 50,000 gpd.

xc: Dick Lennox

Perma

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Hershey Oil - Carr, Ackerman Wastewater System

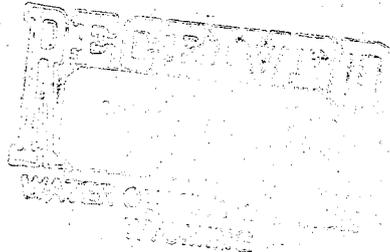
ARCHITECT OR ENGINEER: Bill Breining
Steedley and Associates
P.O. Box 971
Basin, Wyoming 82410

WATER QUALITY DIVISION
REFERENCE NUMBER: 84-514

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: November 19, 1984

ACTION: Not Authorized



COMMENTS:

1.) Please find enclosed the review comments from Dick Lennox of our Ground-water Section. I had assumed when we spoke earlier that the specific well log information from the borings which were conducted had been sent to Mr. Lennox. He will need this information to complete a review.

2.) As we discussed before, all the items on page three of the enclosed memo dated December 23, 1982 must be included in your submittal. These items include:

- a. Depth to groundwater.
- b. Quality of groundwater (TDS) and characteristics of waste to be disposed of.
- c. Documentation as to the potential for surfacing of pit water and the facility's ability to prevent groundwater pollution. See the enclosed Section 15 (a) of Chapter III for what this documentation should consist of.

If the documentation cannot be provided, from the two core drills, a subsurface study as described in Section 15 (b) of Chapter III shall be provided.

- d. Construction details of the ponds are acceptable except that erosion control and anti-seep collars should be provided for the inlet and outlet pipes of the cells.

Review of Plans and Specifications
Hershey Oil - Carr, Ackerman
Wastewater System
November 19, 1984
Page two

- 3.) Review the enclosed Section 30 from Chapter XI to ensure that these requirements are met. Part (f) Liners is of particular interest.

Please call me if you have questions.

xc: Dick Lennox

Water Quality Division
Groundwater Section
Permit Application Review

Ret to
Sheridan
11-16-84

Application Number 84-514

Date Submitted For Review 10-30-84

Name and Location of Facility Hershey Oil-Can Ackerman W.W. Syst
Sec 34 T45N R 80W
Johnson 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 Lenny
Title 11-16-84
Date Eng Eval.

Approved 11/16/84
(Date)

[Signature]
(Signed)
Groundwater Control Supervisor

MEMORANDUM

TO: A. J. Mancini, Groundwater Control Supervisor

FROM: R. J. Lennox, Engineering Evaluator

DATE: November 16, 1984

SUBJECT: Hershey Oil - Carr, Ackerman Wastewater System, DEQ/WQD Ref. No. 84-514

1. I have reviewed the subject application and find that no groundwater information has been submitted. Therefore, a review cannot be conducted at this time.
2. I did note that on an unlabeled sheet for Hershey Oil Co. Carr No. 40-34, drawing of sec. C-C, that two core tests were conducted; this information if submitted might provide some basic information.
3. A review of the State Engineer Well Study shows one stock well within one mile with a S.W.L. of 75 feet.

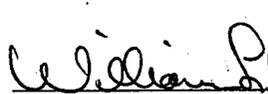
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 #1479
Water Quality Division
STATE OF WYOMING
March 2, 1985
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

The permittee shall notify the Sheridan County Engineer's 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:

Joe Hollingsworth
County Planning & Engineering Office
224 South Main Street
Sheridan, Wyoming 82801

xc: Max D. Carpenter, Carpenter Engineering
Joe Hollingsworth, County Planning & Engineering

Norma

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Mitchell Trailer Court Septic System

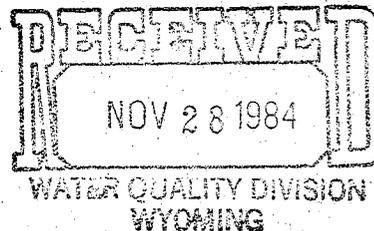
ARCHITECT OR ENGINEER: Max Carpenter
Carpenter Engineering
1945 North Main, #5
Sheridan, Wyoming 82801

WATER QUALITY DIVISION
REFERENCE NUMBER: 84-515

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: November 27, 1984

ACTION: Not Authorized



COMMENTS:

- 1.) With the depth to groundwater being six feet, you will have to verify that a four foot separation distance can be maintained between the bottom of the absorption system stone and the seasonal high groundwater. This is not the case if a one foot layer of stone is used under the distribution pipe and the depth of cover is two feet as listed in your submittal. An elevated bed may be necessary.
- 2.) Please verify that a 10 foot separation is maintained between the water and sewer lines serving the trailers. They appear to be closer on the plan sheet.
- 3.) Cleanouts should be provided at the bends in the sewer pipe upstream of the septic tank.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-516R
 SEE CONDITION ON BACK OF THIS PERMIT

North Park Transportation Company Warehouse
 (Name of Facility)

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

North Park Transportation

Lane 9

Powell, WY 82435

to construct, install, or modify a septic tank/leach field facility according to the procedures and conditions of the application No. 84-516R. The facility is located in Lot 64 (O.S. Section 16), T55N, R99W in the County of Park, 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.

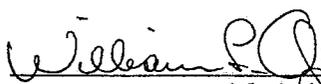
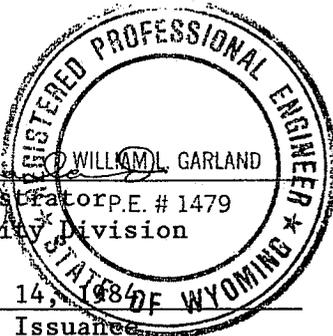
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

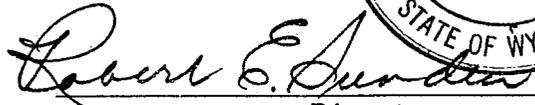
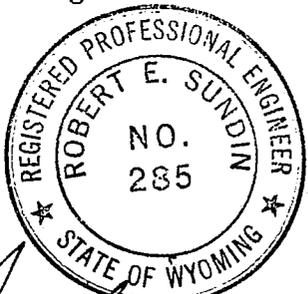
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

Condition to Permit to Construct

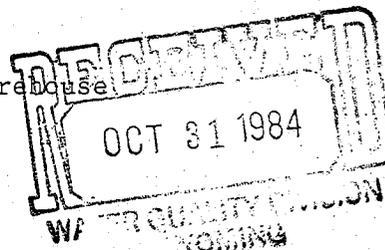
The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Powell Facility Plan requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be abandoned or integrated into the regional system in accordance with the requirements of the Facility Plan.

EB/dcn/nc

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: North Park Transportation Company Warehouse

ENGINEER: Engineering Associates
P. O. Box 1900
Cody, WY 82414

OWNER: North Park Transportation Co.
Lane 9
Powell, WY 82435

WATER QUALITY DIVISION REFERENCE NUMBER: #84-516

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

DATE OF REVIEW: October 23, 1984

ACTION: **Not authorized.**

COMMENTS: Thank you for your recent application for a Permit to Construct a septic system. We need additional information before the permit can be authorized:

1. Please provide the old survey section number. We use county maps for location identification and do not have the current subdivision maps for Park County.
2. A percolation test needs to be run on the actual property, in close vicinity to the leach field site.

EB:dcn

C

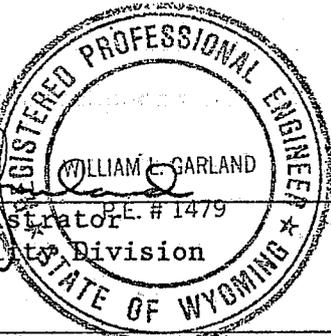
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

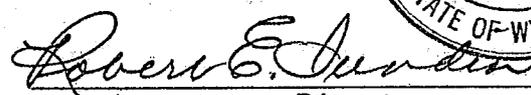
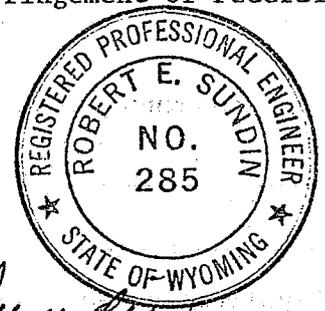
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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 L. GARLAND
Administrator P.E. # 1479
Water Quality Division



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


October 23, 1984
Date of Issuance

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

* CONDITION ON PERMIT *

Before backfilling around the proposed improvements, the applicant is required to contact the Fremont County Planner and arrange for inspection of the installation. Please contact Mr. Ray Price at 332-5371 to arrange for his inspection.

EB:dcn

12-5-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-518
SEE CONDITIONS ON BACK

Holeman G.M. Diesel Wastewater Facility
(Name of Facility)

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

Holeman G.M. Diesel
P.O. Box 1355
Gillette, WY 82716

to construct, install, or modify a septic system for sanitary sewage and floor drain water, grit chamber, oil water interceptor, and oil storage tank facility according to the procedures and conditions of the application No. 84-518. The facility is located in Section 24, T50N, R72W in the County of Campbell, 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.

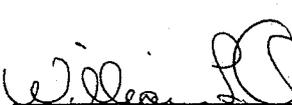
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

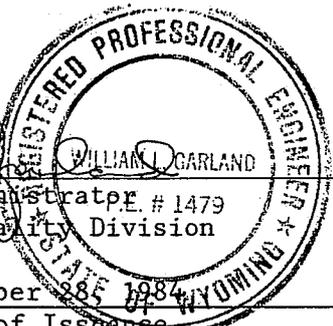
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

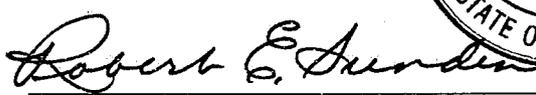
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

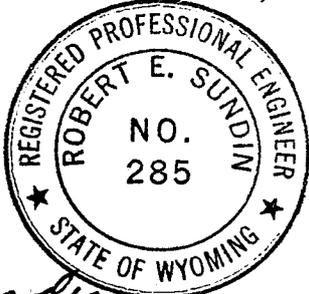
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator, P.E. # 1479
Water Quality Division
November 28, 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 #84-518

1. When a city sewer line becomes available (within 250 linear feet of the intersection of Limestone Avenue and Warlow Drive, as measured from the mid-point of the intersection), the owner/owners must connect onto the City of Gillette's central sewer system by either a gravity flow system or by utilizing a lift station.
2. The permittee shall notify Bill Flaherty, Campbell County Engineer, phone number 682-1970, 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.

cc: Haug Engineering & Surveying, c/o Quality Services Inc., P.O. Box 2848
Gillette, WY 82716
Bill Flaherty, Campbell Co. Engineer, 500 So. Gillette Ave., Gillette, WY 82716

PERMIT TO CONSTRUCT

New

Permit No. 84-519RRR

Renewal

Modified

Glendo Water Storage Tank & Distribution System Improvements
(Name of Facility)

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

Town of Glendo

Box 396

Glendo, WY 82213

to construct, install, or modify a municipal water storage tank and distribution system improvements facility according to the procedures and conditions of the application No. 84-519RRR. The facility is located in Section 9, T29N, R68W in the County of Platte, 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.

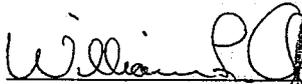
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

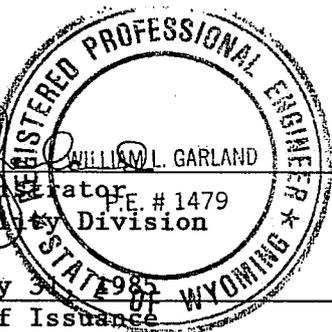
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

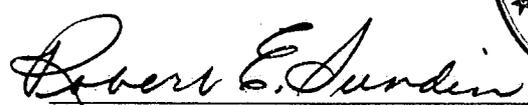
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

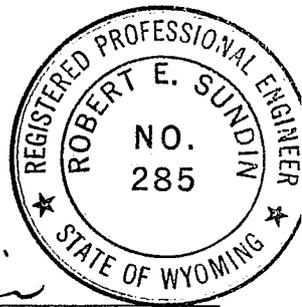
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
P.E. # 1479
January 3, 1985
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: J. H. Hibsman
2510 E. 15th Street
Casper, WY 82609

Review of Plans and Specifications

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

PROJECT: Glendo Water Improvements, Platte Co.

ARCHITECT OR ENGINEER: J. H. Hibsman, P.E.
2510 E. 15th Street, Casper, WY 82609

APPLICANT: Town of Glendo
Box 396, Glendo, WY 82213

WATER QUALITY DIVISION REFERENCE NUMBER: 84-519RR

REVIEWING ENGINEER: Thomas S. Norman *TS Norman*

DATE OF REVIEW: December 6, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The Department's comments have all been adequately addressed except for the design calculations on the water tank. Please submit the tank calculations and shop drawings to our department after you have selected the specific manufacturer. Upon review and approval, we will issue the permit to construct. Construction cannot start until the permit is issued.

Review of Plans and Specifications

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

PROJECT: Glendo Water Improvements, Platte Co.

ARCHITECT OR ENGINEER: J. H. Hibsman, P.E.
2510 E. 15th Street, Casper, WY 82609

APPLICANT: Town of Glendo
Box 396, Glendo, WY 82213

WATER QUALITY DIVISION REFERENCE NUMBER: 84-519R

REVIEWING ENGINEER: Thomas S. Norman *TS Norman*

DATE OF REVIEW: November 8, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Regarding the design of the foundation and the storage tank, Chapter III of the Water Quality Rules and Regulations overrides the AWWA standards. Chapter III states that the design must be performed by a Wyoming registered professional engineer. Actually DEQ is reiterating the Wyoming Engineering Statute (W.S. 33-29-101 through 33-29-113). A contractor does not qualify as meeting these engineering requirements. I am sure that AWWA would acknowledge that a stricter standard would govern over their standards. In fact, on page vii of AWWA D100-79, it states "The following recommendations are believed to be representative of good practice, but they are not requirements of AWWA D100.

I recognize that you are trying to leave the bidding open to as many contractors as possible. Therefore, I suggest that once my remaining comments are resolved that you go ahead and bid the project. Then once you select a specific contractor, that you submit the specific design details and plans to DEQ for review and authorization. (The plans would need a Wyoming P.E. seal.) We have used this process before on package water treatment plants and water wells and it has worked satisfactorily.

2. Fire hydrants are an acceptable alternative to air release valves. However, the plans that were submitted did not show fire hydrants located at the high points. The town can install them after the project but we need some type of commitment as to when and where they will be installed. It seems that an easier method would be to install the water lines at a constant slope and eliminate the need for air release.
3. The specifications do not cover instances where the water and sewer lines are less than 18-inches vertically or 10-feet horizontally. I assume this will be added. This would alleviate my concern where subsurface utility information is not available.
4. DEQ regulations require that a design report be submitted with the plans and specifications. Approval of a report by the Water Development Commission or the

Farm Loan Board does not mean that it meets the requirements of DEQ. I did happen to get a copy of the full report and it looks satisfactory. However, no justification was made as to why a 200,000 gallon tank was selected versus the recommendation of 150,000 gallon by the design report and the 400,000 gallon needed for complete fire protection.

5. Once a specific type of paint and manufacturer has been selected, I suggest you contact EPA (Dave Schmidt (303) 327-3914) to see if the paint is acceptable. EPA performs regular testing on paint for contact with potable water and a current listing of acceptable paints is available. This would ensure the Town that they are getting a safe product.

10-29

Review of Plans and Specifications

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

PROJECT: Glendo Water Improvements, Platte Co.

ARCHITECT OR ENGINEER: J. H. Hibsman, P.E.
2510 E. 15th Street, Casper, WY 82609

APPLICANT: Town of Glendo
Box 396, Glendo, WY 82213

WATER QUALITY DIVISION REFERENCE NUMBER: 84-519

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

DATE OF REVIEW: October 26, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Specifications, Section 8.04. The design of the tank foundation is the responsibility of the engineer and not the contractor.
2. Air release valves are required at high points in the water - station 2+00 on Paige Avenue and station 15+25 on Pine Avenue.
3. On Pine Avenue, station 0+00 to 2+90, more detail is necessary when the water line crosses and parallels the sewer line. Can minimum separation distances be maintained?
4. A design report was not submitted justifying the size of the water storage tank. Please submit current and projected water demands for average day and maximum day demands plus the design fire flow and how they were derived. What portions of town will this tank serve and what pressures will it provide? What is the working capacity of the tank?
5. How will the depth in the water tank be controlled?
6. The overflow pipe will not daylight at the 6 foot depth specified (elevation 4809).
7. The specific manufacturer and type of paint must be identified so that use in contact with potable water can be verified.
8. It seems that the design of the storage tank has been left to the manufacturer rather than the design engineer. Merely referring to AWWA D100 for tanks would be like referring to AWWA C900 for plastic pipe without identifying a specific pressure class. More information is needed on a specific tank with sufficient data so that our department can review it against the requirements of AWWA D100. If you have a specific manufacturer, they may already have this data available for our review.

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-520

Cottonwood Development - Cimarron Addition - Stagecoach Drive
(Name of Facility)

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

Brooks Water & Sewer District
P.O. Box 2080
Mills, WY 82644

to construct, install, or modify a municipal water distribution and wastewater collection facility according to the procedures and conditions of the application No. 84-520. The facility is located in Section 22, T33N, R80W 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.

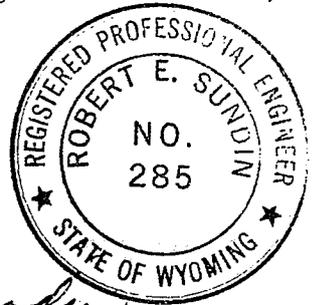
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

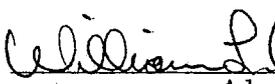
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

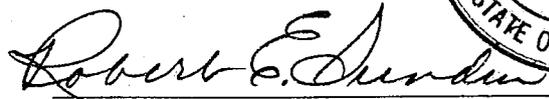
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 #1479
Water Quality Division
STATE OF WYOMING
October 29, 1984
Date of Issuance


Director
Dept. of Environmental Quality

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

cc: Terry Titus
Worthington, Lenhart, Carpenter & Johnson
632 South David Street
Casper, WY 82601

11-1

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-521

Baggs Water Intake System
(Name of Facility)

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

Town of Baggs

P.O. Box 300

Baggs, WY 82321

to construct, install, or modify a municipal water intake structure facility according to the procedures and conditions of the application No. 84-521. The facility is located in SE1/4 Section 5, T12N, R91W 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.

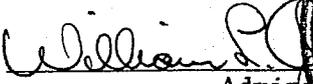
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

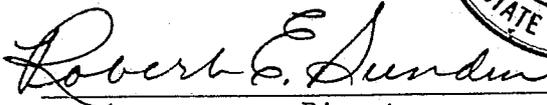
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
P.E. # 1479
Administrator
Water Quality Division
STATE OF WYOMING
REGISTERED PROFESSIONAL ENGINEER

October 26, 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.

cc: Paul McCarthy
Robert Jack Smith & Associates
P.O. Box 1104
Rawlins, WY 82301



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 5, 1984

Office of Chief Engineer
Union Pacific Railroad
1416 Dodge Street
Omaha, NE 68179

RE: UPRR, DEQ/WQD Ref. No. 84-522R

Gentlemen:

Enclosed is the permit to construct #84-523R for the hydrocarbon monitoring and recovery wells at the UPRR Yard Facility in Cheyenne. As required in the permit, please notify us before construction so that we may observe the construction.

As soon as the construction is completed and the lab results obtained, we should schedule a meeting to discuss the results and to identify further monitoring requirements. You should be ready to discuss the location of additional wells and their time of completion. This meeting should be scheduled no later than the latter part of April.

Sincerely,

A handwritten signature in cursive script that reads "Thomas S. Norman".

Thomas S. Norman
Water Quality Engineer

A handwritten signature in cursive script that reads "Kate Laudon".

Kate Laudon
Engineering Evaluator

TSN/KL/nc
Enclosures

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-522R
SEE CONDITIONS ON BACK

Union Pacific Railroad Yard Facility
(Name of Facility)

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

Office of Chief Engineer

Union Pacific Railroad

1416 Dodge Street

Omaha, NE 68179

to construct, install, or modify a industrial hydrocarbon recovery and monitoring wells facility according to the procedures and conditions of the application No. 84-522R. The facility is located in Section 6, T13N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective until April 1, 1985.

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.

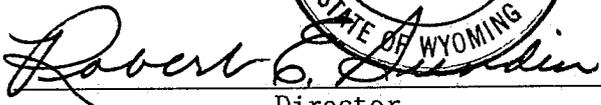
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


 REGISTERED PROFESSIONAL ENGINEER
 WILLIAM L. GARLAND
 Administrator P.E. # 1479
 Water Quality Division
 November 30, 1984
 Date of Issuance
 REGISTERED PROFESSIONAL ENGINEER
 STATE OF WYOMING


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

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

Conditions to Permit to Construct #84-522R

1. The applicant is authorized to construct and install additional hydrocarbon recovery and monitoring wells associated with the Union Pacific Railroad Yard Facility in Cheyenne. As built plans and specifications shall be provided to the Water Quality Division within 20 days of their installation. The monitoring, sampling and reporting requirements for these additional wells are the same as identified in this application.
2. The applicant shall notify the Water Quality Division, in writing, 60 days in advance of the termination of the hydrocarbon recovery project.

cc: Robert D. Markworth, UPRR Co., 1416 Dodge St., Room 1026, Omaha, NE 68179
 A. J. Mancini, DEQ/WQD

WHL



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

September 26, 1984

H. B. Durrant
Chief Engineer
Union Pacific Railroad Company
1416 Dodge Street
Omaha, NE 68179

Dear Mr. Durrant:

I have been waiting to receive a report from Greyhound before responding to your August 29, 1984 letter. Since it appears that further waiting may result in unnecessary delays, I will answer the other questions raised in your letter.

1. A "permit to construct" should be obtained from the Water Quality Division prior to the construction of the monitor wells. The permit application should include as much of the information specified in Chapter III, Section 15 as can be provided before drilling commences. I have included a copy of Chapter III and an application for a permit to construct. The application can be completed by the owner of the facility, or a contractor. The party submitting the permit application assumes responsibility for the facility.
2. I suggest that a hollow-stem auger be used in conjunction with a sampling device such as a split spoon so that samples can be collected while drilling.
3. Samples should be collected continuously, or at frequent intervals while drilling, and examined as they are collected. This should assure that the wells are completed appropriately to represent the aquifer characteristics at the site. A detailed lithologic log should be prepared for each well, including a geologic description, and a description of any contamination encountered.
4. After the wells are completed, the static water level should be measured, and samples should be collected for water quality analysis. If accumulated hydrocarbon is encountered while drilling, the depth of hydrocarbon should be documented and samples should be collected to characterize it. Proper well evacuation, sampling, and analytical procedures should be followed. Samples should be analyzed for the following list of parameters:

H. B. Durrant
September 26, 1984
Page 2

Specific conductance	Ammonia
pH	Arsenic
Total organic carbon	Boron
Alkalinity	Cadmium
Aluminum	Chloride
Chromium	Nickel
Iron	Nitrate
Lead	Nitrite
Mercury	Oil and Grease
Phenol	Selenium
Sulfate	Total dissolved solids

Based on the results of the initial sampling, more detailed organic analyses may be required.

Once I receive a report on the water quality in the vicinity of the Greyhound Bus station, I will make the information available to you. Trailways also intends to install wells in the vicinity of their old storage facility. If you would relocate well MW-1 further to the east, it would provide more extensive coverage of the area up-gradient from the site.

Before you proceed with the installation of the monitor wells, I would suggest a meeting to discuss any further questions you may have about the permitting process or the investigation itself. Please contact me to confirm a meeting date.

Sincerely,



Katherine J. Laudon
Engineering Evaluator

KJL/pjb

cc: Jake Strohman, WQD
LeRoy Feusner, WQD
A.J. Mancini, WQD

Review of Plans and Specifications

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

PROJECT: Union Pacific Railroad Yard Facilities, Laramie County

ARCHITECT OR ENGINEER: Robert D. Markworth, UPRR
1416 Dodge Street, Omaha, NE 68179

APPLICANT: UPRR, Office of Chief Engineer
1416 Dodge Street, Omaha, NE 68179

WATER QUALITY DIVISION REFERENCE NUMBER: 84-522

REVIEWING ENGINEER: ^{TBN} Thomas S. Norman and Kate Laudon *RJL*

DATE OF REVIEW: November 7, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The application form submitted is not acceptable as it was not signed by the applicant. Please complete the attached form and resubmit.
2. The UPRR agreed in a letter dated August 29, 1984 to install 10 monitoring wells at various locations around the yards. This initial monitoring well appears to be just the beginning of the overall investigation. Once this initial well is completed, UPRR should proceed with their investigation as previously outlined. DEQ/WQD requests a schedule as to when this initial well will be completed and also when the other wells will be installed.
3. The application did not state any monitoring information (type of analyses, frequency, reporting, etc.). The parameters listed in the WQD's letter of September 26, 1984 are acceptable. Initially each well should be sampled at least twice within 30 days after the completion of the wells. Reports should be mailed to WQD within 30 days. Long-term monitoring requirements need to be addressed.

Static water levels should be measured. Also the type and depth of any hydrocarbons should be reported during drilling. Proper sampling and analytical procedures must be identified.

4. The plans did not state how the wells would be completed and developed after they are drilled. Proper development is necessary for any type of well. Well test data should also be obtained to verify if a 10 gpm pump is going to be effective.

The application did not specify if samples would be collected during drilling or if a lithologic log would be obtained.

5. Two inch monitoring wells generally do not provide good water quality samples. Because two inch wells are difficult to develop, samples collected from them often contain excessive amounts of sediment. When sampling for hydrocarbon, the

samples should not be filtered, therefore the sediment cannot be removed. I suggest the installation of four inch casing rather than the two inch specified in the application.

6. The plans indicate that the wells will be completed below the water table to the next underlying formation. If contamination is encountered, the wells should be completed deep enough to determine the vertical extent of contamination.

Please respond within 30 days with this additional information.

To Tom N
11-6-84

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 84-522

DATE SUBMITTED FOR REVIEW 10-26-84

NAME AND LOCATION OF FACILITY Recovery Well, Union
Pacific Railroad Yard Facility
Sec 6, T 13N, R 66W
Sacramento County

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

() No comment. The submittal is consistent with current groundwater protection procedures and requirements.

Comments attached.

SIGNED Kate Zaudon

TITLE Engineer Evaluator

DATE 11-6-84

APPROVED 11/6/84
(Date)

gjm
Groundwater Control Supervisor

MEMORANDUM

TO: Tom Norman, Engineering Evaluator

FROM: Kate Laudon Groundwater Engineering Evaluator *KGL*

DATE: November 5, 1984

SUBJECT: Groundwater Investigation, Cheyenne Union Pacific Railroad Yards,
DEQ/WQD Ref. No. 84-522

Union Pacific has submitted an application for a permit to construct one hydrocarbon recovery well and one monitoring well. This permit application represents a preliminary attempt by UP to characterize the aquifer properties beneath the Cheyenne yards. By installing the recovery well in an area of known hydrocarbon accumulation, UP hopes to accomplish investigation and mitigation with one well.

In a letter dated August 29, 1984 UPRR agreed to install 10 monitoring wells at various locations around the yards. Once the initial wells are completed, UPRR should proceed with the investigation as described in the original letters.

With respect to the permit application:

1. Two inch monitoring wells generally do not provide good water quality samples. Because two inch wells are difficult to develop, samples collected from them often contain excessive amounts of sediment. When sampling for hydrocarbon, the samples should not be filtered, so the sediment cannot be removed. I suggest the installation of four inch casing rather than the two inch specified in the application.
2. The plans indicate that the wells will be completed below the water table to the next underlying formation. If contamination is encountered, the wells should be completed deep enough to determine the vertical extent of contamination.
3. Water samples should be collected from both wells and analyzed for the parameters listed in my letter of September 26, 1984. To verify the analytical results, each well should be sampled at least twice within 30 days of completion of the wells.
4. A schedule should be submitted to WQD indicating when the initial wells will be completed and when the additional wells will be installed.

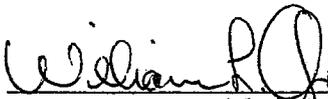
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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:

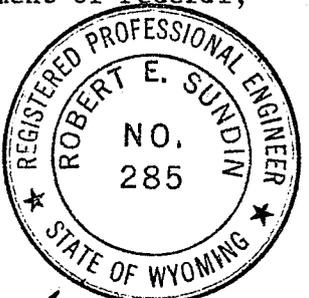


Administrator for P.E. # 1479
Water Quality Division
June 7, 1988
Date of Issuance





Director
Dept. of Environmental Quality



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

Returned
to Lander
6/25/85

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 84-523 RR

DATE SUBMITTED FOR REVIEW 5/15/85

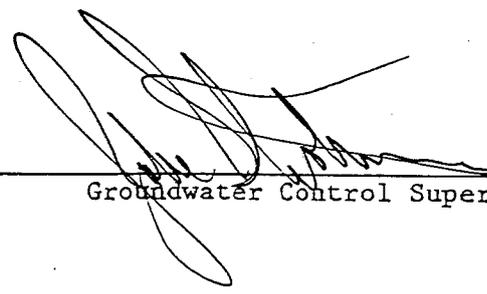
NAME AND LOCATION OF FACILITY BEL NORTH WASTEWATER DISPOSAL PIT
SEC. 27 S 34 T29N, R112W
SUBLETTE COUNTY, WY

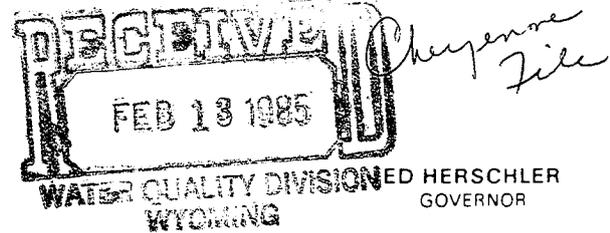
I have reviewed the plans and specifications with regard to all aspects of groundwater quality and find the following:

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Thomas R. Williams
TITLE GROUNDWATER ENGINEERING ASSOCIATE E.I.T NO 224Z
DATE 6/24/85

ACCEPTED FOR RECORD 6/24/85
(Date)


Groundwater Control Supervisor



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 7, 1985

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

RE: Bel North Wastewater Pit #84-523R

Dear Keith:

This letter is intended to confirm and supplement our February 5 and 6, 1985 discussions regarding the soils on the proposed Bel North wastewater disposal pit site.

During my February 5, 1985 visit to the site and your office, we determined that some sandy soil existed in test boring number 3. During our February 6, 1985 phone discussion, we discussed the need for determining the permeability of the undisturbed soil in the bottom of the proposed pit.

The presence of the sand and need for permeability testing has led me to request the following:

1. This office feels that a better understanding of the extent to which the sand exists is necessary before a permit to construct can be issued. We must have some indication as to how much sand will need to be removed and how much select backfill will be required to complete sections of the liner where liner material will be needed.
2. We also feel that since the bottom of most of the disposal pond is to be excavated into undisturbed soil, the permeability of the undisturbed soil must be determined. The permeability of remolded soil samples is necessary for determining the design permeability of recompacted liner material and the dikes, but is not indicative of the permeability of undisturbed soil.

Determining the extent of the sand as well as the undisturbed permeability testing, must be done in a manner acceptable to this office and at the recommendation of a qualified soils engineer. The integrity of this project is dependent upon complete and accurate soils information prior to the start of the project.

McNinch
February 7, 1985
Page Two

Please feel free to contact Jack Bedessem or me if either you or your soils engineer have any questions regarding the items discussed in this letter.

Respectfully,



Jeff Hermansky
Water Quality Evaluator

JH:dcn

xc: Richard Lennox, DEQ/WQD Cheyenne
Bel North
Plans #84-523R

MEMORANDUM

TO: Plans #84-523R
FROM: Jeff Hermansky *Jeff*
DATE: February 6, 1985
SUBJECT: Soils on Proposed Pit Site

On February 5, 1985, I met with Keith McNinch and visited the site of the proposed Bel North drilling fluids disposal pit. I noted the overall topography of the site, locations of test borings/monitoring wells, test pit locations, and location of nearby oil wells used for references in depth to groundwater estimates.

The pit is located in a basin surrounded by bluffs that rise up to a couple of hundred feet above the basin floor. The basin appears to be about two miles wide by about 3 miles long. The oil wells are about $\frac{1}{4}$ mile north or west of the site. There are no significant drainages on or near the proposed pit site.

After visiting the site, Keith and I returned to Surveyor Scherbel's office where I examined the soil samples taken from the three test pits and three borings on the site. It was my intention to verify Keith's claim that the soils found in all the test pits and borings were the same.

I found the soil from test pits 1 and 2 to be a tan silt with clay and about 35% fine sand. The samples exhibited a good degree of plasticity. The soil from test pit 3 was similar to that of pits 1 and 2 except that it did not appear to be quite as plastic. Samples from all three test pits were combined by Chen & Associates and tested as a composite.

I looked at samples taken from the upper levels of the three test borings in an effort to compare them to each other as well as the material taken from the test pits. Each sample was wetted to help determine the relative plasticity. Samples taken from Boring 1 at 8 and 19 feet, Boring 2 at 6 feet and Boring 3 at 10 feet-- all exhibited a plasticity similar to test pits 1 and 2. Samples taken from boring 3 at 6 and 20 feet contained a large amount of fine sand and silt and had little plasticity. The sample from boring 3 at 15 feet was about 85% fine sand with the remainder silt. This sample exhibited almost no plasticity and is totally unsuitable for pond liner material. The samples from 6 and 20 feet were also unsuitable for a pond liner.

All the samples taken from both the test pits and the borings were a very uniform tan or light brown color.

JH:dcn

xc: Dick Lennox, DEQ/Water Quality Division, Cheyenne

Norm
let to
handle
1-30-85

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 84-523R

Date Submitted For Review 1-17-85

Name and Location of Facility Bel North Wastewater Disposal Pit
T.29N, R.112W, S.27 #34
Sublette 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 Lunn
Title Eng. Eval.
Date 1-29-85

~~Approved~~ 1/30/85
accepted for record
(Date)

AJM
(Signed)
Groundwater Control Supervisor

MEMORANDUM

TO: A. J. Mancini, Groundwater Control Supervisor
FROM: R. J. Lennox, Groundwater Engineering Evaluator
DATE: January 29, 1985
SUBJECT: Bel North Wastewater Disposal Pit, DEQ/WQD Ref. No. 84-523R

1. A review of the applicant's response indicates that the separation between the disposal pit and known groundwater is approximately 140-150 feet. If the pond liner meets permeability requirements of 1×10^{-7} cm/sec there should be no objection to granting the permit.
2. The installed monitor wells are completed in accordance with Water Quality Rules and Regulations, Chapter XI.
3. It is recommended that a monitoring program and schedule, consistent with the characteristics of the wastewater, be included as a permit condition.

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Bel North Wastewater Disposal Pit

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

OWNER: Bel North Petroleum Corporation
P. O. Box 250
Big Piney, WY 83113

WATER QUALITY DIVISION REFERENCE NUMBER: #84-523

REVIEWING EVALUATOR: Jeff Hermansky, Jack Bedessem

DATE OF REVIEW: December 5, 1984

ACTION: Not authorized.

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

1. If the applicant cannot document that the facility poses no threat to groundwater and elects not to perform a subsurface study in accordance with Chapter III, Section 15 (a) and (b), then the groundwater shall be protected from contamination by the wastewater with a liner equivalent to three feet of soil having a permeability of 10^{-7} cm/sec or less.

From the information provided, it appears that you propose to use in-place native material for the liner. If this is the case, additional subsurface information must be performed to show: uniform soil conditions throughout the depth of the liner, and no fractures, fissures or pockets of less permeable material exist.

2. The permeability test indicates a material of 2.5×10^{-7} cm/sec. Whether in-place material or recompacted liner is used, the thickness must be increased, so that it is equivalent to 3 feet of 10^{-7} cm/sec material.

3. Verify that the material tested for permeability is representative of the material to be used for the liner.

4. If a recompacted liner is to be used, address whether sufficient onsite material is available to construct the liner.

5. Additional subsurface information (i.e. test borings) is needed so that site suitability and facility design can be fully evaluated. The test borings should be located

ABC

so as to give a representative picture of the subsurface conditions. It is recommended that you contact Dick Lennox concerning boring location and development.

6. A leak detection or subsurface monitoring system will be required for this facility. One monitoring well is insufficient to serve as a leak detection system. Reference Chapter XI, Water Quality Rules and Regulations, Part G for design and construction of monitoring wells:

- (a) From the additional subsurface information, design an adequate leak detection or subsurface monitoring system. Include details.
- (b) Address in detail a monitoring program for the facility (i.e. sampling procedures, parameters, frequency, background if needed, notification).

7. Include in the specifications the requirement that a Wyoming professional engineer or a qualified independent soils laboratory provide written certification, to this office, that the facility was constructed in accordance with the specifications. In addition to the letter of certification, copies of each of the individual test results must be submitted to this office.

8. The construction specifications shall include provisions and procedures for testing the effectiveness of the liner once it has been constructed. Refer to Chapter XI Water Quality Rules and Regulations, Part C.

9. The specifications must include a procedure for the identification and removal of unsuitable material in the excavated area and in the bottom of the cells. Include in the specifications, compaction of replaced material. See the Department of Environmental Quality's Regulations Chapter XI, Part C., Section 30 for specific information on suitable material.

10. The inner dikes slopes may need to be protected by rip-rap if they are to be less than a 3 to 1 slope. Address this potential requirement in the specifications.

11. Please present in the specifications a plan of operation for the pits. Address (1) an operation log--quantity, the hauler, date, source of waste, etc.; (b) no hazardous wastes as defined by the USEPA or State of Wyoming shall be disposed of at this facility; and, (c) any accumulation of oil shall be removed as necessary to enhance evaporation.

12. It is recommended that flagging be installed over the ponds to discourage birds and water fowl from the ponds.

Please contact me upon receipt of this review so we can discuss any questions you may have.

JH/JB:dcn

Water Quality Division
Groundwater Section
Permit Application Review

*Returned
to sender
12-7-84*

Application Number 84-523

Date Submitted For Review 11-29-84

Name and Location of Facility Belmont Wastewater Disposal Pt
Sec 27 & 34 T 29 NR 112W
Siblette & 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. Leung
Title December 5 1984
Date Eng. Eval.

Approved 12/7/84
(Date)

[Signature]
(Signed)
Groundwater Control Supervisor

MEMORANDUM

TO: A. J. Mancini, Groundwater Supervisor
FROM: R. J. Lennox, Engineering Evaluator *RL*
DATE: December 5, 1984
SUBJECT: Belnorth Wastewater Disposal Pit, DEQ/WQD Ref. No. 84-523

1. I reviewed the information submitted with application number 84-523 for groundwater concerns and have the following comments:
 - a. A review of the State Engineer's Well Study shows one permitted well in SE/SW Section 34 or approximately 3/4 mile from the proposed site. This well is reported at 550 ft. depth with a SWL at 110 ft. This SWL corresponds with the depths of 135 ft. and 150 ft. reported in the application.
 - b. There was no additional information concerning groundwater submitted.
 - c. There was no information concerning the compatibility of local soils to be used for liner material and the drilling fluids, i.e., will the drilling fluids breach the liner material by interacting with it.
 - d. The natural soils in the area have a remolded permeability of 2.5×10^{-7} cm/sec, this will not meet DEQ requirements of 1×10^{-7} cm/sec.
 - e. With no groundwater information; specifically, information concerning the absence or presence of a near surface aquifer, the proposed location of the one monitor well is questionable.
2. It is recommended that the permit to construct be denied until information concerning the liner material and near surface groundwater (or lack of near surface groundwater) that addresses the above concerns is submitted for review.
3. Experience to date has indicated that soil liners for drilling fluid waste ponds eventually leak therefore it is also recommended that a soil liner with leak detection systems be considered.

PERMIT TO CONSTRUCT

New

* CONDITIONED *

Permit No. 84-524R

Renewal

Modified

THOMSON DISPOSAL PONDS NO. 2 AND 3

(Name of Facility)

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

Richard Thompson

Cora, Wyoming 82925

to construct, install, or modify a two clay lined ponds and two subsurface monitoring wells for disposal of waste oilfield drilling fluids

facility according to the procedures and conditions of the

application No. 84-524R. The facility is located in

Section 20, T35N., R110W.

in the County of Sublette,

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-

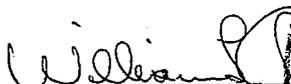
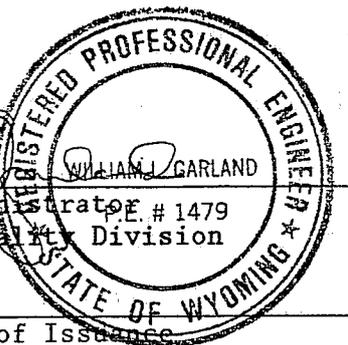
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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, 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

December 5, 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.

* 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, sealing of annular space in accordance with Section 65 of that Chapter.
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.

Permit to Construct
Permit No. 84-524R
Thomson Disposal Ponds No. 2 and 3
December 5, 1984
Page Three

* CONDITIONS OF PERMIT *

(Continued)

4. If erosion becomes a problem, the Department of Environmental Quality, Water Quality Division personnel may require that rip-rap or other stabilization method be implemented.
5. The Department of Environmental Quality, Water Quality Division shall be contacted prior to the reclamation of this facility. The method of reclamation must be accepted by this Department. Waste quality evaluation, mitigation, and/or stabilization methods may be required.

JB:dcn

cc: Tony Mancini, DEQ/WQD Cheyenne
LeRoy Feusner, DEQ/WQD Cheyenne
Janet 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: Thomson Reserve Ponds No. 2 and 3

ENGINEER: Robert Harrower
Rio Verde Engineering
P. O. Box 67
Pinedale, WY 82541

OWNER: Richard Thomson
Cora, WY 82925

WATER QUALITY DIVISION REFERENCE NUMBER: #84-524

REVIEWING EVALUATOR: Jack Bedessem *JB by JH*

DATE OF REVIEW: October 26, 1984

ACTION: Not authorized.

COMMENTS: This disposal facility is being reviewed under two separate applications-- #84-524 covers the two new ponds and #84-29R covers the application to modify the existing ponds.

This review letter addresses the two newly proposed ponds only.

Please respond to the following comments pertaining to your application:

1. Detailed, comprehensive specifications signed by a Wyoming Professional Engineer are needed for the construction of this facility (i.e. clearing, grubbing, excavation, fill, materials compaction, testing frequency, certification, etc.). Refer to Water Quality Rules and Regulations Chapter XI Section 30 for standards.
2. The construction specifications need to include provisions for determining the effectiveness of the liner after construction (Chapter XI Section 30[f]).
3. The construction specifications need to include the following provisions: Written certification that the soil liner was constructed in accordance with the specifications shall be provided by a Wyoming Professional Engineer or an independent soil laboratory and submitted to this office prior to operation of the facility.
4. Address whether the material tested for permeability is representative of the material which will be used for the liner. Address whether sufficient-suitable onsite material is available to construct the liner.

ABC

5. From the boring logs, it appears that the soils vary significantly with depth, and, therefore, may not be representative of the proposed site. Site specific hydrogeological information is needed.

From the information provided, this department cannot determine whether a groundwater monitoring program (monitoring wells) or leak detection system will be required. A groundwater monitoring program may be required.

6. The interior dikes and bottoms need to be protected from erosion at locations where dumping will occur. Inflow structures (splash pads) should be provided at dumping locations. Indicate dumping locations on plans and a detail.
7. Address provisions for controlling erosion on interior dike slopes. Slopes less than 3H:1V are not recommended unless adequate erosion control is provided.
8. Address whether adequate liner compaction can be obtained on cut slopes of 2H:1V.
9. It is recommended that flagging be installed to discourage water fowl and birds.
10. The vicinity map accompanying the original submittal indicates that a water well is located approximately $\frac{1}{2}$ mile southeast of the proposed disposal site (NE/NW Sec. 29). Provide information about the status of this water well.
11. Provide a topographic map which shows the location of the proposed pits in relation to the existing pits.
12. 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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-525

Missile Stage Processing Facility
(Name of Facility)

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

Base Civil Engineer

90 CSG/DE

F.E. Warren AFB, WY 82005

to construct, install, or modify public water supply distribution and wastewater collection/mechanical treatment (oil/water separator) systems according to the procedures and conditions of the application No. 84-525. The facility is located in Section 22, 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.

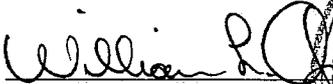
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

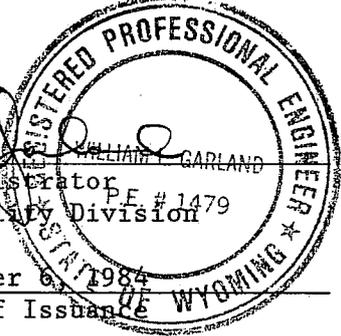
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

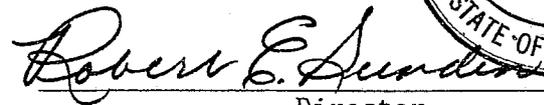
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



WILLIAM GARLAND
Administrator P.E. # 1479
Water Quality Division
December 6, 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
90 CSG/DEE
F.E. Warren AFB, WY 82005

Tom Jensen
U.S. Army Corps of Engineers
MROED-E
6014 USPO & Courthouse
Omaha, NE 68102



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 2, 1984

Selectronics
P. O. Box 808
Afton, WY 83110

Attention: Ross Turner

RE: Rees Taxidermy Shop Septic
System #84-526

Dear Mr. Turner:

I have reviewed the as-built plans of the septic tank/leach field that was constructed to serve the Rees Taxidermy Shop and the adjacent ceramic shop.

For the most part, the as-built facility meets the applicable regulations governing the construction of on-site disposal facilities. However, the septic tank does not appear to meet the standard for length to width ratio. The standard says, "The septic tank shall have a length to width ratio of no less than two to one, or be so partitioned as to provide protection against short circuiting of flow."

The septic tank installed is shown to be six feet long by five feet wide, which is less than the minimum two to one length to width ratio. However, since a 1,000 gallon septic tank will provide over six days detention at the design flow of 150 gallons per day, I feel that the tank installed should have no problem with short circuiting.

I noticed that there should be cleanouts on the lines that run from the taxidermy and ceramic shops to the septic tank. If cleanouts are not already in place, they must be installed.

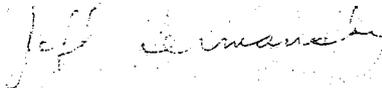
A permit to construct cannot be issued for the project since the construction is already completed. However, since in general, the construction meets the applicable standards, the construction is authorized by this letter.

aba

Selectronics
November 2, 1984
Page Two

Thank you for providing the as-built plans.

Respectfully,


Jeff Hermansky
Water Quality Evaluator

JH:dcn

xc: Plans #84-526
Jake Strohman, DEQ/WQD Cheyenne

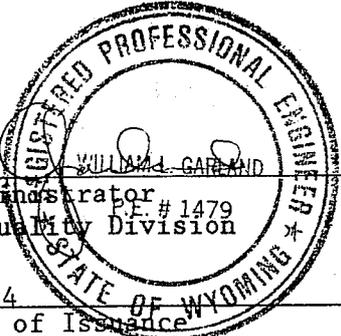
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

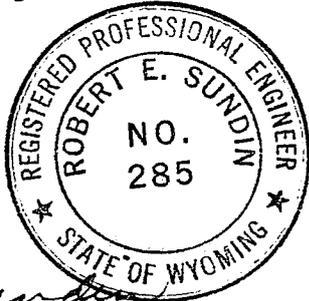
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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. Garand
WILLIAM J. GARAND
Administrator
Water Quality Division
P.E. # 1479
STATE OF WYOMING


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

November 16, 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: Rock Springs Sanitary Sewer Lines

ENGINEER: Johnson, Fermelia & Crank
P. O. Box 631
Kemmerer, WY 83101

OWNER: City of Rock Springs
P. O. Box 698
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: #84-527

REVIEWING EVALUATOR: Jeff Hermansky *Jeff Hermansky*

DATE OF REVIEW: November 6, 1984

ACTION: **Not authorized.**

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

1. Is the existing lift station at the White Mountain Treatment Plant in good enough condition to reliably perform as part of the wastewater collection system?
2. What is the capacity of the White Mountain Treatment Plant lift station?
3. Is there a working alarm system at the White Mountain lift station?
4. Is there an alternative power source available to the White Mountain Treatment Plant lift station?
5. Is the North Side Lift Station to be powered by the generator at the new Rock Springs Treatment Plant in the event of a power failure? Is the generating capacity sufficient to serve both all the needs of the plant as well as the lift station?
6. Are the top of the north side lift station and the forced sewer main that is suspended on the bridge above the 100 year flood elevation?
7. Does the North Side Lift Station have visual or audio alarms? Where are these alarms located?
8. Please send one more copy of the design data that accompanied your application (enclosed in a white booklet).

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

JH:dcn

C

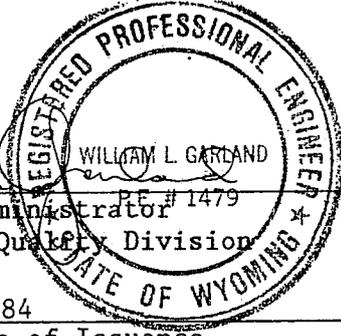
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

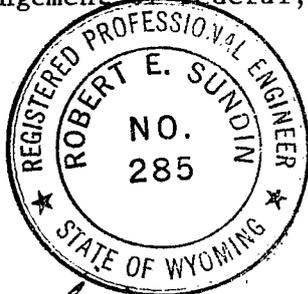
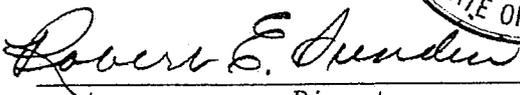
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

November 19, 1984
Date of Issuance



Director
Dept. of Environmental Quality

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

* CONDITION ON PERMIT *

Before backfilling around the system, the applicant is required to contact the Teton County Planner and arrange for his inspection of the improvements. Please contact Mr. Joe Chalfant at 733-3959.

EB:dcn

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Lifelink Wastewater System

ENGINEER: Jorgensen Engineering & Land Surveying
P. O. Box 1142
Jackson, WY 83001

OWNER: Unknown

WATER QUALITY DIVISION REFERENCE NUMBER: #84-528

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

DATE OF REVIEW: November 1, 1984

ACTION: **Not authorized.**

COMMENTS: Thank you for your recent application for a permit to construct. We need some additional information before the permit can be authorized:

1. Please verify that groundwater will be at least four feet from the bottom of the leach field.
2. Please designate a replacement area for the leach field.
3. Please provide us an application for permit to construct form.

EB:dcn

ABC

12-4

PERMIT TO CONSTRUCT

New

Permit No. 84-529R

Renewal

Modified

HERITAGE PARK SEWER

(Name of Facility)

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

Robert and Mary Edwards

P. O. Box 1155

Powell, WY 82435

to construct, install, or modify a sanitary sewer line

facility according to the procedures and conditions of the application No. 84-529R. The facility is located in

Lot 33, American Park Subdivision, T55N, R99W

in the County of Park,

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-

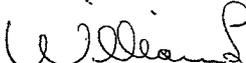
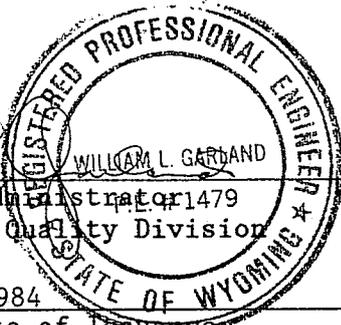
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

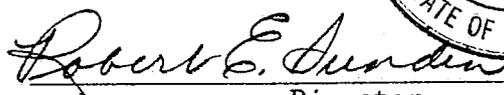
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 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. GARDAND
Administrator 1479
Water Quality Division
STATE OF WYOMING
November 19, 1984
Date of Issuance



Director
Dept. of Environmental Quality

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

EB:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Heritage Park Sanitary Sewer Service Line

ENGINEER: John Bereman
1502 Wood River Road
Meeteetse, WY 82433

OWNER: Robert and Mary Edwards
P. O. Box 1155
Powell, WY 82435

WATER QUALITY DIVISION REFERENCE NUMBER: #84-529

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

DATE OF REVIEW: November 1, 1984

ACTION: Not authorized.

COMMENTS: Thank you for your recent application for a permit to construct. Your sewer hydraulic calculations are adequate for us to authorize the use of 6" PVC sewer. You will, however, need to install manholes at all changes in grade and/or direction. A cleanout may be installed on the dead end line. The existing 6" service line and existing 10" sewer line junction also needs to have a manhole installed.

We also need one additional copy of your plan sheet for our permitting.

EB:dcn

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-530
SEE CONDITIONS ON BACK

Bailey Dome Observation Wells
(Name of Facility)

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

Amoco Production Company

P.O. Box 2520

Casper, WY 82602

to construct, install, or modify seven (7) observation wells facility according to the procedures and conditions of the application No. 84-530. The facility is located in Section 21, T26N, R89W 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.

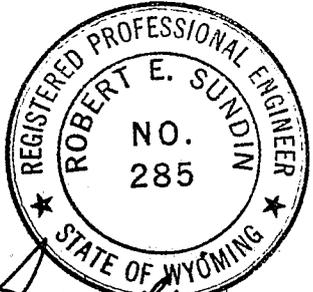
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

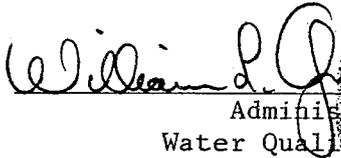
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

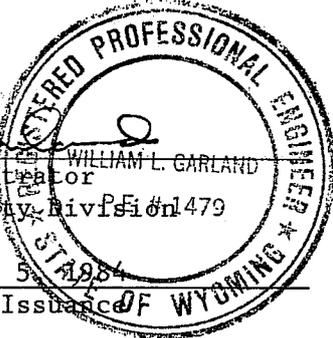
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
Administrator
Water Quality Division #1479
December 5, 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 #84-530

1. All wells will be abandoned according to procedures specified in Chapter XI, Part G, Section 70, of the Wyoming Department of Environmental Quality, Water Quality Rules and Regulations.
2. Within 15 days after a well has been plugged and abandoned, the owner shall file a plugging record with the Water Quality Division.

12-10-84



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 5, 1984

Mr. M. D. Castleberry
Amoco Production Company
P.O. Box 2520
Casper, WY 82602

RE: Bailey Dome Observation Wells, DEQ/WQD Ref. No. 84-530

Dear Mr. Castleberry:

Enclosed is a signed copy of the permit for the seven observation wells Amoco completed at LaMont. I want to thank you for Amoco's timely response to, and investigation of groundwater contamination in the vicinity of the LaMont Cafe.

Sincerely,

Katherine J. Laudon

Katherine J. Laudon
Groundwater Engineering Evaluator

KJL/nc
Enclosures

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-531
SEE SPECIAL CONDITIONS

Schrader Crematory
(Name of Facility)

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

Schrader Funeral Home
2323 Carey Avenue
Cheyenne, WY 82001

to construct, install, or modify a small subsurface sewage treatment and disposal facility according to the procedures and conditions of the application No. 84-531.

The facility is located in Section 24, T14N, R66W 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.

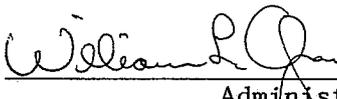
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

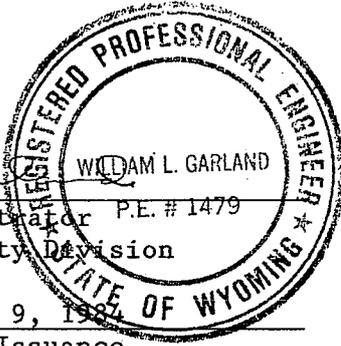
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

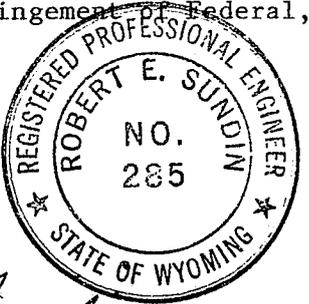
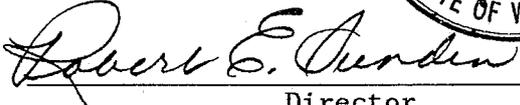
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

November 9, 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. The pipe crossing the driveway shall be protected against freezing and damage due to traffic.
2. The permittee shall notify Don Pack, Laramie County Environmental Health Unit, 1700 Snyder Avenue, Cheyenne, WY 82001, phone number 638-8545, 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.

cc: James D. Voeller, AVI, p.c., 1700 Westland Road, Cheyenne, WY 82001
Don Pack, Laramie County Environmental Health Unit

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-532R
SEE SPECIAL CONDITION

Life Care Center of Cheyenne
(Name of Facility)

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

City of Cheyenne
Board of Public Utilities
2100 Pioneer Avenue
Cheyenne, WY 82001

Cheyenne Medical Investors, Ltd
P O Box 3323
Cleveland, TN 37311

to construct, install, or modify a municipal water distribution and sewer collection system facility according to the procedures and conditions of the application No. 84-532R. The facility is located in S20, T14N, R66W 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.

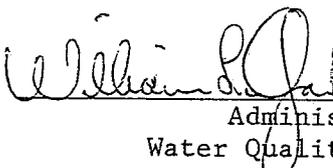
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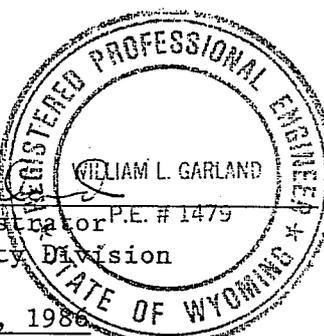
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

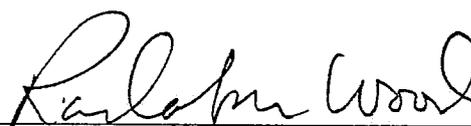
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:


Administrator P.E. # 1479
Water Quality Division
May 6, 1986
Date of Issuance




Director
Dept. of Environmental Quality

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

SPECIAL CONDITION

1. All water lines used for interior fire sprinkler systems shall have a backflow prevention device. This device shall be a double check valve assembly as approved by the Foundation for Cross-Connection Control, University of Southern California.

cc: Kim Lobdell
Jack Noblitt & Associates
1920 Thomes Avenue, Suite 620
Cheyenne, WY 82001

7-17



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

July 16, 1985

Cheyenne Medical Investor, Ltd.
P.O. Box 3323
Cleveland, TN 37311

Gentlemen:

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:	Life Care Center of Cheyenne
DEQ/WQD Reference Number:	84-532
Engineering Consultant:	Kim Lobdell, Jack Noblitt
DEQ/WQD Reviewing Engineer:	Thomas S. Norman
Date of DEQ/WQD Review:	November 1, 1984

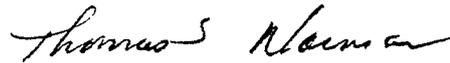
According to Chapter III of the Water Quality Rules and Regulations, Section 7 b. (2), "If an application is denied because of incompleteness necessitating a request for additional information, the applicant shall have a maximum of six months to comply with the request. If the applicant fails to provide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

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

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

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 reviewing engineer receives this information within 15 days of the receipt of this letter, follow-up action will be taken.

Sincerely,



Thomas S. Norman
Water Quality Engineer
Water Quality Division

TSN/nc

cc: Kim M. Lobdell
Jack Noblitt & Assoc.
1920 Thomes, Suite 620
Cheyenne, WY 82001

Review of Plans and Specifications

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

PROJECT: Life Care Center of Cheyenne, Laramie County

ARCHITECT OR ENGINEER: Jack Noblitt & Associates
1920 Thomes, Suite 620, Cheyenne, WY 82001

APPLICANT: Cheyenne Medical Investors, Ltd.
P.O. Box 3323, Cleveland, TN 37311

WATER QUALITY DIVISION REFERENCE NUMBER: 84-532

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

DATE OF REVIEW: November 1, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Three copies of the plans are required.
2. A letter from the City is necessary stating that they will provide water and that they will accept the wastewater.
3. The application must be signed by one of the owners or else documentation is required that the signee is an official agent of the owner.

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

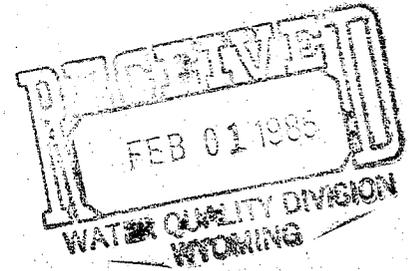
210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 29, 1985

Bridger Coal Company
P. O. Box 2068
Rock Springs, WY 82901



Attention: Don Hartley and Karen Christensen

RE: "As Built" Sedimentation Pond JB-36
#84-533R

Dear Mr. Hartley and Ms. Christensen:

The "as built" plans and specifications for sedimentation pond JB-36 have been reviewed. The modifications to the original pond design appear to meet the minimum design standards defined by the State of Wyoming.

A "Permit to Construct, Install or Modify" cannot be issued owing to the fact that the facility has already been modified. Retain this letter as verification that the modification of JB-36 has been accepted by the Wyoming Department of Environmental Quality.

As a result of the January 1985 Department of Environmental Quality/Land Quality Division inspection, it is recommended that the point of discharge and effluent channel be rip-rapped to resist erosion. The rip-rap should be installed prior to spring snow melt.

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

Sincerely,

A handwritten signature in cursive script, appearing to read "Jack Bedessem".

Jack Bedessem
Area III Supervisor

JB:dcn

cc: Cheyenne DEQ/WQD
Bud Preston, DEQ/LQD Lander
Steve Garland, DEQ/LQD Lander
File (6)

aba

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Jim Bridger Mine Sedimentation Pond JB-36

ENGINEER: Mark Bricker
Bridger Coal Company
P. O. Box 2068
Rock Springs, WY 82901

OWNER: Bridger Coal Company
Attention: Karen Christensen
P. O. Box 2068
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: #84-533 "As Built"

REVIEWING EVALUATOR: Jack Bedessem

JH for JB

DATE OF REVIEW: December 10, 1984

ACTION: **Not authorized.**

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

1. Specifications signed by a Wyoming Professional Engineer are needed for the construction of this facility.
2. As per our December 9, 1984 discussion, the plans and specifications should include details for the outlet pipe (material, seepage control, size rip-rap, etc.).
3. Also, JB-36 is to discharge for Holding Pond E. Holding Pond E is identified as a point on your NPDES Discharge Permit. A letter of explanation needs to be sent to John Wagner, Department of Environmental Quality/Water Quality Division, Herschler Building, 122 West 25th Street, Cheyenne, Wyoming 82002.
4. Design calculations are needed to justify reducing the size of this pond. Address why the drainage area was reduced by over 60%, yet the one year sediment volume increased slightly.
5. A plan sheet indicating the effected drainage area should accompany this application.
6. Address provisions for determining when the sediment stored in this pond meets or exceeds the one year sediment volume and must be cleaned out.
7. Address the need and provision for erosion control of the dikes and inlet.
8. Four complete sets of plans and specifications need to be submitted.

ABC

Review of Plans and Specifications

Jim Bridger Mine Sedimentation Pond JB-36 #84-533 "As Built"

December 10, 1984

Page Two

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

JB:dcn

12-25

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 84-534R

WYOMING DOWNS RACETRACK

(Name of Facility)

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

Wyoming Downs

808 Main Street

Evanston, WY 82930

to construct, install, or modify a wastewater collection system for racetrack and
camper park and to install an aerator in the Hoback Ranches sewage lagoon with will
serve the racetrack facility according to the procedures and conditions of the
application No. 84-534R. The facility is located in _____

Section 2, T16N, R121W

_____ in the County of Uinta,

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-

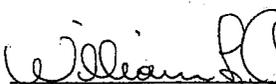
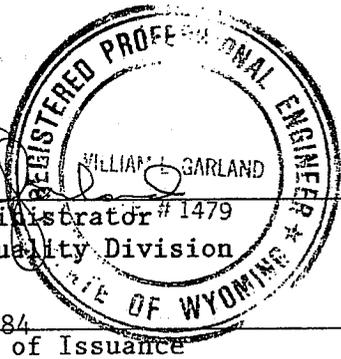
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

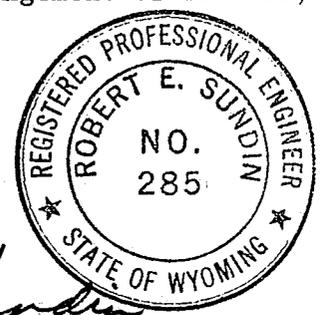
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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



Administrator # 1479
Water Quality Division
STATE OF WYOMING



Director
Dept. of Environmental Quality

~~December 11, 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: Wyoming Downs Racetrack Sewage Collection System

ENGINEER: Uinta Engineering & Surveying, Inc.
P. O. Box 746
Evanston, WY 82930

OWNER: Wyoming Downs
808 Main Street
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: #84-534

REVIEWING EVALUATOR: Jeff Hermansky *Jeff*

DATE OF REVIEW: November 26, 1984

ACTION: Not authorized.

COMMENTS: I have reviewed your application for a permit to construct a sewage collection system for the Wyoming Downs Racetrack. For the most part, your plans meet the minimum design standards. However, I would like to point out that the current standards require that the BOD₅ loading rate be 0.22 lbs/person/day, not the 0.17 lbs/person/day that you used.

Using this loading rate, one 5 HP aerator can treat only 54,500 gallons of wastewater per day, rather than the 70,350 gallons shown in your design. Since your proposed total flow is 57,350, the single 5 HP aerator is adequate for the racetrack and 111 lots. However, any further development will require that additional aeration equipment be installed.

There are a couple of items that I feel need to be addressed that were not included in the plans.

1. How are the trailer spaces to be served by the collection system? Any sewer lines other than individual lot service connections are considered collectors and must be shown in plan and profile.
2. Show a detail of individual sewer service risers.
3. How are the barns to be served by the collection system?
4. There are no plans for the water system included in this permit application. Are the water system plans to come at a later date?

Please feel free to contact either Jack Bedessem or me if you have any questions.

JH:dcn

AC

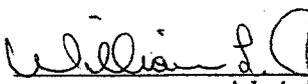
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

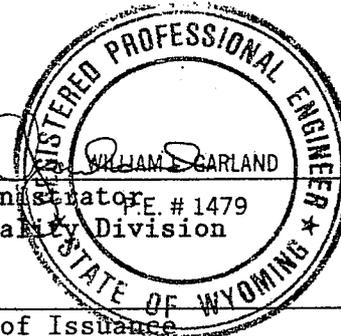
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

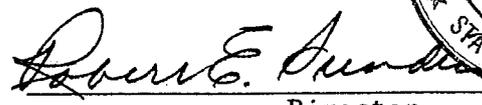
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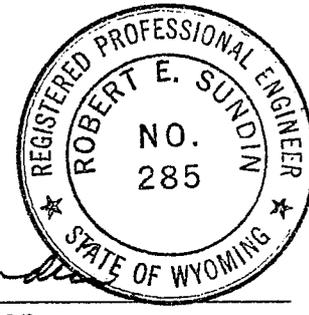
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AUTHORIZED BY:



WILLIAM J. GARLAND
Administrator, E. # 1479
Water Quality Division




ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


November 5, 1984

Date of Issuance

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

* CONDITIONS ON PERMIT *

1. Before backfilling around the septic system, the applicant is required to contact Mr. Ray Price, the Fremont County Planner, and arrange for his inspection of the improvements.
2. This permit is authorized as temporary with the condition that the septic system be discontinued when the planned City of Lander lagoon system is installed for use by this site. The City of Lander system should be ready for use within three (3) years following the date of issuance of this permit.

EB:dcn

cc: Ray Price, Fremont County Planner
Mayor Del McOmie, City of Lander

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-536
SEE CONDITIONS ON BACK OF PERMIT

Hoe Creek Underground Coal Gasification Site
(Name of Facility)

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

U.S. Department of Energy

P.O. Box 1189

Laramie, WY 82070

to construct, install, or modify a thirty (30) monitoring and test well network for evaluation of UCG effects on aquifers at the above facility according to the procedures and conditions of the application No. 84-536. The facility is located in Section 7, T47N, R72W in the County of Campbell, in the State of Wyoming. This permit shall be effective for a period of five (5) 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.

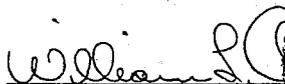
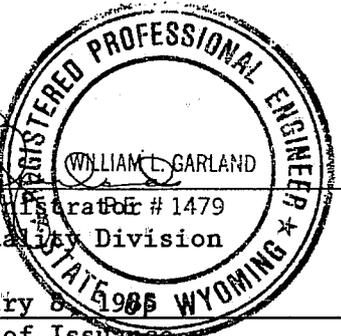
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

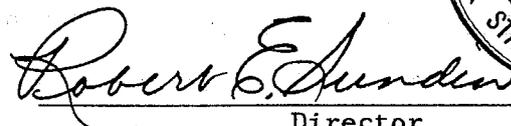
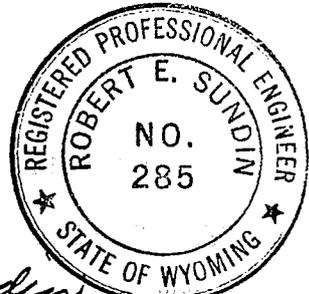
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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 # 1479
Water Quality Division
January 8, 1985
Date of Issuance



Director
Dept. of Environmental Quality

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

Conditions of Permit to Construct #84-536

1. The permittee shall ensure that all monitor or test wells are constructed in accordance with Water Quality Rules and Regulations, Chapter XI, Part G.
2. When the monitoring network is complete, the permittee shall provide the Administrator, Water Quality Division, a map of the network along with a copy of the well completion logs.

11-28-84



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

November 27, 1984

Mr. Urban Sharum
U.S. Department of Energy
P.O. Box 1189
Laramie, WY 82070

RE: Application No. 84-536

Dear Mr. Sharum:

In order that a "Permit to Construct" may be issued for the Hoe Creek Underground Coal Gasification site monitoring network, a set of plans and specifications for a typical monitor or test well along with a copy of the construction contract for these wells should be submitted. Water Quality Rules and Regulations, Chapter XI, Part G, provides the required standards for well construction.

Based on the fact that underground coal gasification burns have already caused aquifer pollution or have potential for causing pollution to groundwaters of the State, the importance of the monitoring network cannot be overemphasized. When the permit to construct is finally issued, it will contain certain conditions requiring that the Division be kept current as to the monitoring results as well as the extent of contamination encountered.

If you have any questions, please contact me at (307) 777-7781.

Sincerely,

A handwritten signature in black ink, appearing to read "Richard J. Lennox".

Richard J. Lennox
Engineering Evaluator

RJL/nc

cc: Land Quality Division

PERMIT TO CONSTRUCT

Permit No. 84-537
SEE SPECIAL CONDITIONS

- New
- Renewal
- Modified

D. L. Chemical Company
(Name of Facility)

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

D. L. Chemical

Box 144

Douglas, WY 82633

to construct, install, or modify a subsurface wastewater treatment and disposal system for an office building facility according to the procedures and conditions of the application No. 84-537. The facility is located in NE1/4 SW1/4 Section 34, T33N, R71W in the County of Converse, 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.

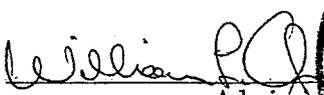
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

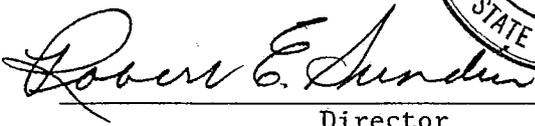
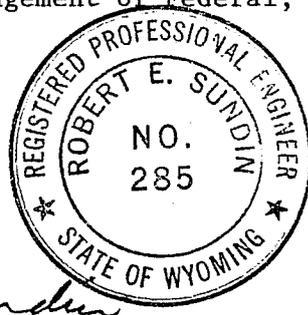
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:


Admin. Director P.E. # 1479
Water Quality Division

November 7, 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. Cleanouts shall be installed in the sewer pipe between the building and the septic tank. They shall be located where the sewer pipe changes direction by 22-1/2 degrees or greater.
2. Only domestic type wastes shall be discharged to the sewer.
3. The permittee shall notify Debbi Standard, County Sanitarian, Converse County Health Department, 127 N. 5th St., Douglas, WY 82633, phone number 358-2536, 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 back-filling.

cc: John A. Lambert, John A. Lambert & Assoc., Box 34, Douglas, WY 82633
Debbi Standard, Converse County Sanitarian

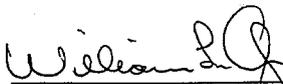
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

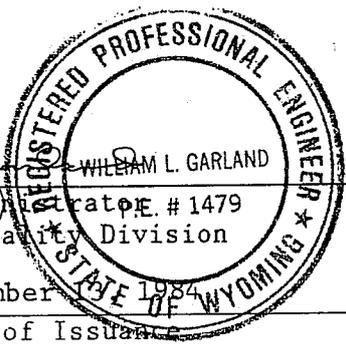
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

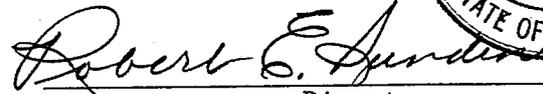
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

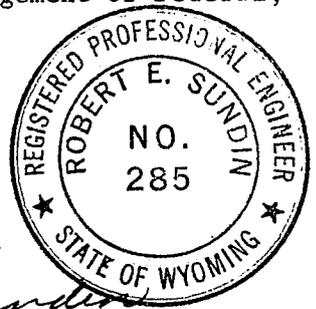
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
November 1984
Date of Issuance




Director
Dept. of Environmental Quality



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

CONDITION

The permittee shall notify the Sheridan County Engineer 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:

Mr. Joe Hollingsworth
County Planning & Engineering Office
224 South Main Street
Sheridan, Wyoming 82801

xc: Rosendahl & Associates (w/plans)
1360 North Main Street
Sheridan, Wyoming 82801

R. C. Steele, HUD (w/plans)

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-539
 Reference: 84-391

WRIGHT WATER AND SEWER DISTRICT
 WASTEWATER TREATMENT FACILITY IMPROVEMENT

 (Name of Facility)

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

Wright Water and Sewer District
P.O. Box 549
Wright, Wyoming 82732

to construct, install, or modify a lift station and pretreatment facilities

_____ facility according to the procedures and conditions of the
 application No. 84-539. The facility is located in Sec. 27, T.44N., R.72W.

_____ in the County of Campbell,
 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

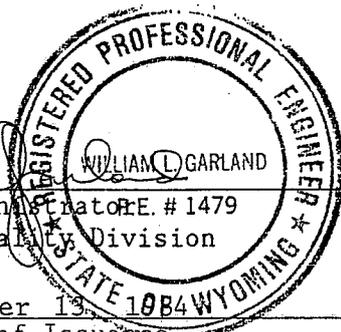
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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, 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
December 13, 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.

xc: Donald L. Armstrong, Consulting Engineers
625 East Madison, Suite 5
Riverton, Wyoming 82501

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-540RR

CITY OF CODY TREATED WATER MAIN EXTENSION
ALONG 26TH STREET AND U. S. HIGHWAY 14, 16 & 20
 (Name of Facility)

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

City of Cody
1338 Rumsey
Cody, WY 82414

to construct, install, or modify a water main extension

_____ facility according to the procedures and conditions of the

application No. 84-540RR. The facility is located in _____

Tract 60 and 61, T52N, R101W

_____ in the County of Park,

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-

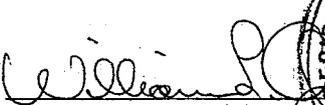
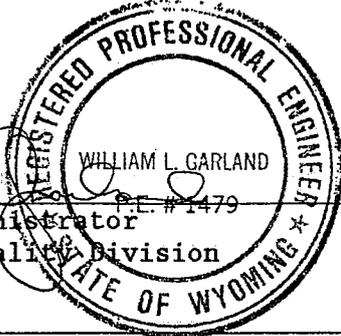
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

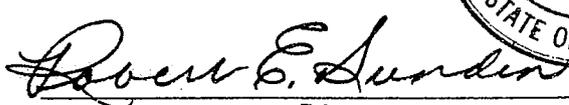
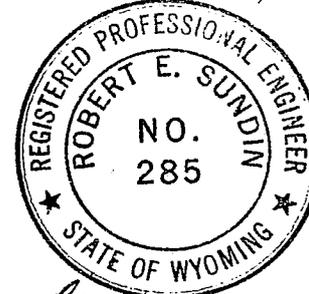
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 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
P.E. #1479
Administrator
Water Quality Division



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


December 17, 1984

Date of Issuance

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

EB:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: City of Cody Treated Water Main Extension Along 26th Street
and U. S. Highway 14, 16 & 20

ENGINEER: Graham, Dietz and Associates
P. O. Box 338
Cody, WY 82414

OWNER: City of Cody
1338 Rumsey Ave.
Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: #84-540R

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

DATE OF REVIEW: December 11, 1984

ACTION: Not authorized.

COMMENTS:

1. The only item still needed is your submittal of two additional copies of the entire application. The permit will be authorized upon receipt of this material.

EB:dcn

U

TELEPHONE REVIEW

TO: #84-540~~X~~ File
FROM: Ed Baruth Ed
DATE: November 16, 1984
SUBJECT: Review

I requested that the following information be forwarded:

- a) Send an additional two copies; and,
- b) Send calculations on available water pressure.

I was assured by Gerry ? on the telephone that required pressure was available. I then gave verbal O.K. for them to get going on the project to avoid weather.

EB:dcn

C

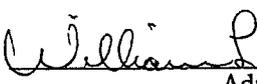
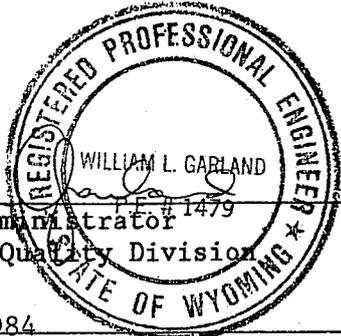
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

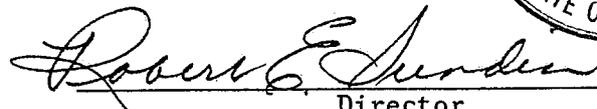
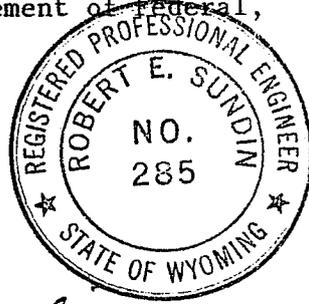
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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 L. GARLAND
Administrator #1479
Water Quality Division
STATE OF WYOMING



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

November 8, 1984
Date of Issuance

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

* CONDITIONS ON PERMIT *

1. Your property is located within the City of Riverton's planning area for possible future service by the Riverton wastewater collection system. The permit is issued with the condition that the permitted septic tank/leach field be abandoned and connection be made to the Riverton collection system when service is made available to your property.

2. Before backfilling around the proposed improvements, the applicant is hereby required to contact the Fremont County Planner and arrange for his inspection of the system. Please call Mr. Ray Price at 332-5371 to arrange the inspection.

EB:dcn

cc: City of Riverton

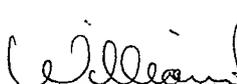
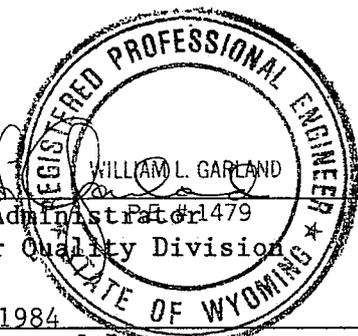
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

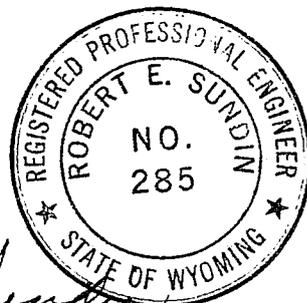
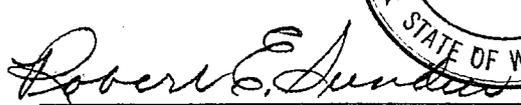
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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 L. GARLAND
Administrator 1479
Water Quality Division
STATE OF WYOMING



Director
Dept. of Environmental Quality

November 19, 1984
Date of Issuance

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

EB:dcn

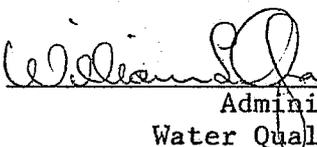
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

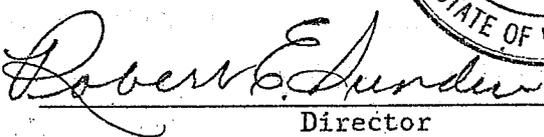
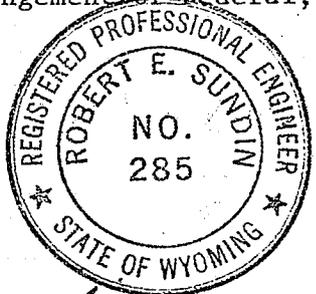
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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 L. GARLAND
Administrator P.E. # 1479
Water Quality Division



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


November 16, 1984

Date of Issuance

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

* CONDITIONS ON PERMIT *

This permit is issued with the requirement that the following conditions be followed:

1. This permit is valid for a temporary man camp only, temporary being one year or less.
2. The permittee shall notify Carolyn Niold of the Lincoln County Office of Planning & Development of the day construction is scheduled to commence and the estimated completion date of this project. Final inspection of the installed system is required before backfilling. Carolyn Niold can be contacted at P. O. Box 414, Afton, Wyoming 83110 or by calling 886-3825.

JH:dcn



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

January 9, 1986

Lloyd Baker
Box 210
Thayne, WY 83127

Dear Mr. Baker:

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 is:

Facility Name: Nebeker Shop
 DEQ/WQD Reference Number: 84-544
 Engineering Consultant: Lloyd Baker
 DEQ/WQD Review Engineer: Jack Bedessem/Bill Locke
 Date of DEQ/WQD Review: 11-15-84

Please indicate below the status of this project 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,

A handwritten signature in cursive script that reads "Bill Locke".

Bill Locke, P.E.
Water Quality Engineer

BL/jw

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

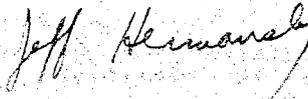
PROJECT: Nebeker Shop

ENGINEER: Lloyd Baker
P. O. Box 210
Thayne, WY 83127

OWNER: Darrel Nebeker
P. O. Box 69
Fairview, WY 83119

WATER QUALITY DIVISION REFERENCE NUMBER: #84-544

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: November 15, 1984

ACTION: Not authorized.

COMMENTS: Thank you for submitting your application for a Permit to Construct a septic tank/leach field for your shop for farm tractor storage. The following questions and comments need to be addressed before a Permit can be issued:

1. You have Lloyd Baker listed as your engineer on the application form, yet there is nothing on the plans that would indicate that Mr. Baker has designed the facility or reviewed the plans submitted. Mr. Baker must sign the plans, thus certifying his approval.
2. How did you determine that 150 gallons of wastewater would be generated per day? How many people do you expect will use the bathroom in the shop?
3. How did you determine the depth to groundwater? I would suspect that since the Fairview Canal is only 60 feet from the proposed leach field and the soil is rocky, that the groundwater is much closer to the surface than 50 feet during the irrigation season, if not all year long.
4. What are the dimensions of the septic tank? A manufacturers detail sheet could be submitted if it shows the necessary information. Who will be supplying the septic tank?
5. If the septic tank inlet and outlet pipes are to be PVC, they must be schedule 40 PVC. Please note this on the plans.
6. What is "inch to quarter crushed" gravel?

ABC

Review of Plans and Specifications

Nebeker Shop #84-544

November 15, 1984

Page Two

7. What is the proposed slope of the sewer line from the shop to the septic tank?
8. Four copies of all the plan sheets are required--one for the archives in Cheyenne, one for Lander, one for the engineer and owner, and one for Lincoln County for use during the construction inspection.

Please feel free to contact either Jack Bedessem or me if you have any questions.

JH:dcn

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:


Administrator
Water Quality Division
November 15, 1985
Date of Issuance




Director
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Naughton Unit No. 3--FGD Evaporation Pond No. 2

ENGINEER: J.R. Kunz (Rm. 286)
Utah Power and Light
P.O. Box 899
Salt Lake City, UT 84110

OWNER: Utah Power and Light (Rm. 247)
P.O. Box 899
Salt Lake City, UT 84110

WATER QUALITY DIVISION REFERENCE NUMBER: 84-545RRR

REVIEWING ENGINEER: Bill Locke, P.E. *BL*

DATE OF REVIEW: September 5, 1985

ACTION: Not authorized.

COMMENTS:

We have reviewed your response dated June 24, 1985 and determined that the following items must be addressed before a permit to construct will be issued.

1. Sheet 2 of 4. Please provide a detailed specification for the material that is to surround the pipeline in the Perforated Underdrain Detail. This detail calls for 4" diameter slatted collector line that will flow to a 6" diameter chain pipe. Page 6 of the specifications identifies this pipe as being a 6" diameter. Please clarify.

2. The soils report and the plan view with the groundwater contours on sheet 1 of 4 indicate there is some water standing on the surface of some areas to receive embankment. Dewatering of these areas prior to placing and compacting the fill should be called for in the specifications.

3. Appendix A was to contain a copy of a letter from Mr. Fred A. Staab of Poly-America, Inc. concerning the "sulphur salts." There was no letter found in either copy of the Appendix we received. The compatibility of the liner material with the FGD water, soils, climate, etc. must also be addressed.

4. Some of the observation wells installed during the soils investigation are to be used as groundwater monitoring wells. As-built information must be submitted to this office to determine if these wells were constructed to standards required by Chapter XI, Part G.

C

Review of Plans & Specs.

Ref. No. 84-545RRR

Page Two

5. A detail and/or specification is required for the two monitoring wells to be installed as part of this permit.

6. Page 6 of the specifications still calls for the return pumping of any fluid that may appear in the seepage control basin. This is not acceptable. If any seepage is evidenced in the control basin, the Department of Environmental Quality, Water Quality Division should be notified immediately. The pond should be dewatered and the leak identified and repaired.

7. Groundwater Section's review comments attached.

8. Please resubmit the required information to this office in triplicate. Be sure to include the Water Quality Reference Number that appears on this review sheet in a cover letter or transmittal sheet. Should you have any questions or comments, please contact this office.

BL/jw



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Bill Locke, Engineering Evaluator

FROM: Kate Laudon, Groundwater Engineering Evaluator *K.L. / by adm*

DATE: August 30, 1985

SUBJECT: Groundwater Review, UP&L FGD #2, DEQ/WQD Ref. No. 840545RRR

I spoke with Dave Mills of Utah Power and Light (UP&L) today. He agreed that UP&L will monitor seven observation wells located around the FGD pond. Data will be collected quarterly and submitted in conjunction with UP&L's existing groundwater monitoring program.

Static water level should be reported for each well on a quarterly basis. This will fulfill groundwater monitoring requirements for the new FGD pond.

KL/nc

Norma, Return
Plans Please
9-3

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 84-545 RRR

DATE SUBMITTED FOR REVIEW 7-19-85

NAME AND LOCATION OF FACILITY Utah Power and Light
Naughton Plant FGD Pond #2
Lincoln County

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

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Kate Laudon

TITLE Engineer Evaluator

DATE 8-29-85

ACCEPTED FOR RECORD 8/30/85
(Date)

gjm
Groundwater Control Supervisor



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: Bill Locke, Engineering Evaluator

FROM: Kate Laudon, Groundwater Engineering Evaluator *R. L. / by agm*

DATE: August 30, 1985

SUBJECT: Groundwater Review, UP&L FGD #2, DEQ/WQD Ref. No. 840545RRR

I spoke with Dave Mills of Utah Power and Light (UP&L) today. He agreed that UP&L will monitor seven observation wells located around the FGD pond. Data will be collected quarterly and submitted in conjunction with UP&L's existing groundwater monitoring program.

Static water level should be reported for each well on a quarterly basis. This will fulfill groundwater monitoring requirements for the new FGD pond.

KL/nc

Norma, I will keep these plans for now

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 84-545R

DATE SUBMITTED FOR REVIEW 3-27-85

NAME AND LOCATION OF FACILITY Utah Power and Light
Naughton Plant Unit #3 FGD Evaporation
Pond #2
Section 25 T20N R116W Lincoln County

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

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Kate Laudon

TITLE Engineer Evaluator

DATE 5-22-85

ACCEPTED FOR RECORD 5/22/85
(Date)

QJM
Groundwater Control Supervisor

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor
FROM: Kate Laudon, Groundwater Engineer Evaluator *KL*
DATE: May 20, 1985
SUBJECT: Groundwater Review, Utah Power & Light FGD Pond, DEQ/WQD Ref. No. 84-545R

Utah Power and Light has submitted groundwater data from the vicinity of their proposed FGD pond in response to our 11-84 review of their permit application. Water level elevations in the vicinity of the pond (taken from the Design Report and Specifications) indicate that the pond bottom and leak detection system will be completed beneath 10 to 12 feet of groundwater. Therefore, the pond and leak detection system cannot be constructed as designed.

KL/nc

cc: Andrew Beiber, State Engineer's Office

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Naughton Unit No. 3 - FGD Evaporation Pond No. 2

ENGINEER: J.R. Kunz (Rm. 286)
Utah Power and Light
P.O. Box 899
Salt Lake City, UT 84110

OWNER: Utah Power and Light (Rm. 247)
P.O. Box 899
Salt Lake City, UT 84110

WATER QUALITY DIVISION REFERENCE NUMBER: 84-545R

REVIEWING EVALUATOR: Jack Bedessem, Kate Laudon

DATE OF REVIEW: May 21, 1985

ACTION: Not authorized.

COMMENTS:

On January 4, 1985 we sent you a detailed review letter which listed the items of concern which need to be addressed. These items must be adequately addressed and/or resolved before a "Permit to Construct" can be issued.

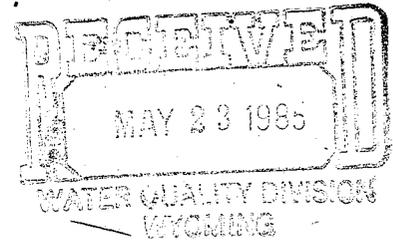
We have reviewed your response and determined that the following items still need to be addressed and/or resolved:

1. Three complete sets of plans, specifications and design information must be submitted when making an application for "Permit to Construct." The construction plans and specifications must be signed or stamped by a registered Wyoming Professional Engineer.

2. Construction specifications are required. Address embankments, materials classification, clearing, compaction, lifts, frequency, standards, etc. Refer to Water Quality Rules and Regulations, Chapter XI, Part C. No specifications have been submitted with this application. Be sure to include:

a. On ponds that are specified to be lined with an artificial liner, rocks larger than six inches in length shall not be placed within five feet of the interior slope of any pond embankment. Material containing by volume less than 25 percent of rock larger than six inches and less than 12 inches in length may be placed in the remainder of the embankment.

b. Exterior of dikes, top of dikes, and all interior dike surfaces where riprap or a seal is not provided shall be covered with topsoil and seeded with suitable dry land grasses



ABC

to prevent erosion. A uniform coarse graded gravel may be substituted for the vegetation requirement.

3. Embankment section detail. OK.

4. From the information provided, it appears that the proposed pond bottom and leak detection system will be constructed 5-12 feet below the groundwater. As designed the facility appears unfeasible.

a. Address the liner installation procedures and operation of the leak detection system.

b. Address a contingency plan for investigation, inspecting and repairing a leaking liner. If a leak is detected, this department should be notified immediately.

5. The membrane liner material, bed preparation, installation procedures, and cover material must be specified. A representative of the liner manufacturer must be on site to supervise the installation. No liner specifications have been submitted with this application.

6. Address the compatibility of the liner material with the FGD water, soils, climate, etc. Contrary to your design report, research has indicated that not all the synthetic liner materials may be compatible with the FGD pond wastewater. Specify the proposed liner material and provide verification from the manufacturer that the material is compatible.

7. Details and specifications of the leak detection system are needed. Revisions will be dependent on response to item no. 4.

8. The seepage collection pond will not only accumulate seepage but it will also collect precipitation. The function of the leak detection system should be to detect a leak or seepage through the liner. It is recommended that the collection pond or sump be sealed with a removable cap or cover.

9. Written certification that the liner and earth work were completed in accordance with the authorized plans and specifications shall be submitted to this office by a Wyoming Professional Engineer, independent soils firm and/or liner manufacturer. This should be included in the specifications.

10. Collection pit. OK.

11. Specifications for the construction of the influent pipeline are still needed. Address the function of the 18 inch nested CMP shown on the pipeline profile sheet 3 of 5.

12. The influent splash pad should run down the slope and extend out across the bottom of the pond. Provide a legible detail. It appears the wastewater will be entering the pond at a very high velocity.

May 20, 1985
Review of Plans & Specs.
Ref. No. 84-545R
Page Three

13. Existing FGD pond. OK.

14. Information and design calculations are needed for the sizing of the pond. Include precipitation, runoff, evaporation, winter storage, etc. (water balance). Address the "operating scheme" mentioned in the cover letter which will be used to alternate between the ponds as required by the water levels. This still needs to be provided.

15. The plan view shows streamlines indicating "original flow interrupted by pond" along the northeastern side of the pond.

a. Address whether there is an alluvial aquifer associated with the streamflow.

b. Address whether the stream is to be diverted away from the pond.

c. A map showing potentiometric contours. OK.

16. Address in detail a subsurface monitoring program. The purpose of the monitoring program is to document that the facility is not causing violations of any groundwater standards.

Completely address each individual item. Submit the required information and revised drawings to this office, in triplicate. If you have any questions please feel free to contact me.

JB/jw
copy: Kate Laudon

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Naughton Unit No. 3 - FGD Evaporation Pond No. 2

ENGINEER: J. R. Kunz (Rm. 286)
Utah Power and Light
P. O. Box 899
Salt Lake City, UT 84110

OWNER: Utah Power and Light (Rm. 247)
P. O. Box 899
Salt Lake City, WY 84110

WATER QUALITY DIVISION REFERENCE NUMBER: #84-545

REVIEWING EVALUATOR: Jack Bedessem, *JB* Jeff Hermansky, *JH* Kate Laudon

DATE OF REVIEW: January 4, 1985

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 must be submitted when making an application for "Permit to Construct."
2. Construction specifications are required. Address embankments, materials classification, clearing, compaction, lifts, testing, frequency, standards, etc. Refer to Water Quality Rules and Regulations, Chapter XI, Part C.
3. From the embankment section, it appears that the membrane liner does not extend across the pond bottom. The cover letter states that this FGD pond will be equipped with a synthetic liner, leak detection system and pumpback system. Clarify.
4. From the information provided, it appears that this pond may be designed to seep. Generally, when fluid is detected in a seepage collection system, the facility is inspected and the liner repaired. Address a contingency plan for investigating, inspecting and repairing a leaking liner.

If this pond is being designed to seep and pumpback, address seepage rates, pumping rates, etc. Include details and specifications of pumpback pumps, return lines, discharge points, effectiveness, power failure, etc.

5. The membrane liner material, bed preparation, installation procedures, and cover material must be specified. A representative of the liner manufacturer must be on site to supervise the installation.

ABC

Review of Plans and Specifications

Naughton Unit No. 3 - FGD Evaporation Pond No. 2 (#84-545)

January 4, 1985

Page Two

6. Address the compatibility of the liner material with the FGD water, soils, climate, etc.
7. Details and specifications of the under-drain leak detection system are needed. Include filter and bed (impervious) materials, trench details, pipe layout, slopes, etc.
8. Where is the seepage pond water to be returned. Plans and details of the return line are needed (i.e. splash pad, material, etc.).
9. Written certification that the liner and earth work were completed in accordance with the authorized plans and specifications shall be submitted to this office by a Wyoming Professional Engineer, independent soils firm and/or liner manufacturer. This should be included in the specifications.
10. Detail and address the function of the under-drain collection pit. Could this pit be located somewhere other than in the bottom of the pond?
11. Specify the construction materials and methods for the pipeline which carries the flue gas disposal water to the evaporation pond. Include a profile view of the pipeline.
12. A splash pad is needed where the wastewater enters the evaporation pond. Detail and address the location.
13. The existing FGD pond and the proposed pond are not clearly shown. Clearly label each.
14. Information and design calculations are needed for the sizing of the pond. Include precipitation, run off, evaporation, winter storage etc. (water balance). Address the "operating scheme" mentioned in the cover letter which will be used to alternate between the ponds as required by the water levels.
15. The plan view shows streamlines indicating "original flow interrupted by pond" along the northeastern side of the pond.
 - (a) Address whether there is an alluvial aquifer associated with the streamflow.
 - (b) Address whether the stream is to be diverted away from the pond.
 - (c) A map showing potentiometric contours relative to the location of the pond needs to be provided on a sheet separate from the plans.
16. Address in detail a subsurface monitoring program. The purpose of the monitoring program is to document that the waste disposal facility will not cause a violation of any groundwater standards. It is recommended that you contact Kate Laudon (307-777-7781).

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

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

Kate kept
copy
comments
sent
12-20-84

APPLICATION NUMBER 84-545

DATE SUBMITTED FOR REVIEW 11-26-84

NAME AND LOCATION OF FACILITY Utah Power & Light
Naughton Unit #3 FGD Evaporation Pond #2
Sec. 25 T. 20N R. 116W
Lincoln County

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

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Kate Laudon
TITLE Engineer Evaluator
DATE 12-19-84

ACCEPTED FOR RECORD _____
(Date) _____ Groundwater Control Supervisor

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor

FROM: Kate Laudon, Groundwater Engineer Evaluator *KJL*

DATE: December 19, 1984

SUBJECT: Groundwater Review, Utah Power and Light, Naughton Unit #3, FGD Evaporation Pond #2, S25, T20N, R116W, Lincoln County, DEQ/WQD Ref. No. 84-545

Utah Power and Light has submitted an application for a permit to construct a second FGD pond at the Naughton Plant near Kemmerer. The letter accompanying the permit application indicates that the "operating scheme" will be to alternate between the new pond and the existing FGD pond as required by the water level in the ponds. No engineering details are provided to show how this operating scheme will be achieved.

The letter further states that "Both ponds will be equipped with a synthetic liner and leak detection system." The one plan sheet included with the application does not provide enough detail on the liner and leak detection system to evaluate its potential effectiveness.

1. Will the PVC liner be compatible with the FGD solution?
2. How will the liner be protected from ultraviolet and mechanical degradation during construction and prior to filling? The embankment cross section shows rip rap bedding placed over the liner. What does this consist of?
3. No detail is provided on the pond bottom. The detail of the embankment section indicates that the liner will not extend over the pond bottom.
4. The plan view of the pond indicates an underdrain system will be constructed. Details of this system should be provided.
5. A contingency plans should be provided for inspecting and repairing the pond liner, if the seepage collection system detects fluid leaving the pond.
6. The plan view shows streamlines indicating "original flow interrupted by pond" along the northeastern side of the pond. Is there an alluvial aquifer associated with this streamflow? Does UP&L intend to divert this stream away from the pond? A map showing potentiometric contours relative to the location of the pond should be provided (preferably on a separate page from other plans, etc.).

On September 4, 1984 I received a letter from David Mills which indicated that UP&L has been sampling wells in the vicinity of the new FGD pond, and will continue to do so until March of 1985. UP&L should be advised that they are expected to develop a groundwater monitoring program as part of their application for a permit to construct. The purpose of the monitoring program is to document that the waste disposal facility will not cause a violation of any groundwater standards. Since this information was not included in the initial permit application, I assume that they are still collecting background data. Chapter III, Section 15 (pages 12, 13, 14 and 15) outlines the groundwater information that should be submitted in support of the permit application. All monitor wells should be constructed to the standards included in Chapter XI part G of the Water Quality Rules and Regulations.

12-13

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-546R

MOUNTAIN VIEW
WATER LINE CONNECTIONS
 (Name of Facility)

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

Town of Mountain View
P. O. Box 249
Mountain View, WY 82939

to construct, install, or modify two new waterlines to loop the town system

_____ facility according to the procedures and conditions of the
 application No. 84-546R. The facility is located in _____

Sections 14 and 24, T15N, R115W

_____ in the County of Uinta,

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-

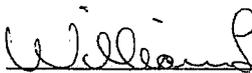
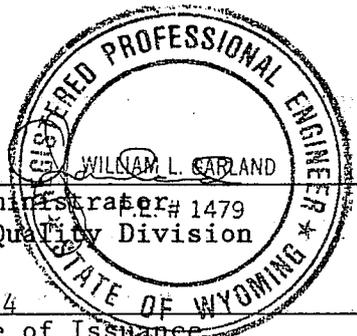
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

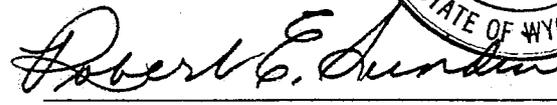
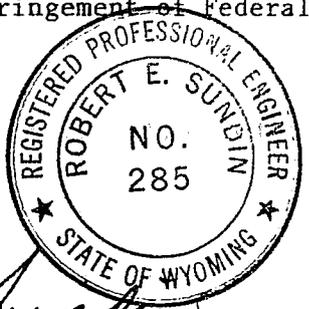
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


WILIAM L. GARLAND
Administrator # 1479
Water Quality Division

December 3, 1984
Date of Issuance


Director
Dept. of Environmental Quality


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: Mountain View Water Line Connections

ENGINEER: Dale Peterson
Town of Mountain View
P. O. Box 249
Mountain View, WY 82939

OWNER: Town of Mountain View
P. O. Box 249
Mountain View, WY 82939

WATER QUALITY DIVISION REFERENCE NUMBER: #84-546

REVIEWING EVALUATOR: Jeff Hermansky 

DATE OF REVIEW: November 16, 1984

ACTION: Not authorized.

COMMENTS: The plans for the proposed water line seem to meet the standards and regulations. However, you have apparently overlooked an item that I believe needs to be addressed.

There is to be a boring under State Highway 414 and a 12 inch steel casing installed. The Wyoming Public Works Standard Specifications do not address borings.

Please submit detail drawings and specifications to clearly show the highway boring.

Feel free to contact me if you have any questions.

JH:dcn

C

5-29

PERMIT TO CONSTRUCT

New

Permit No. 84-547R

Renewal

Modified

Lawrence Brown Disposal Lagoon

(Name of Facility)

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

Waste, Inc.

P.O. Box 133

Evanston, WY 82930

to construct, install, or modify a synthetically lined pond for disposal
of petroleum industry sludges and wastewater

facility according to the procedures and conditions of the
application No. 84-547R. The facility is located in

Sec. 7, T17N, R120W

in the County of Uinta,

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-

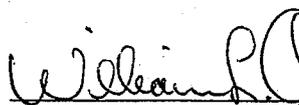
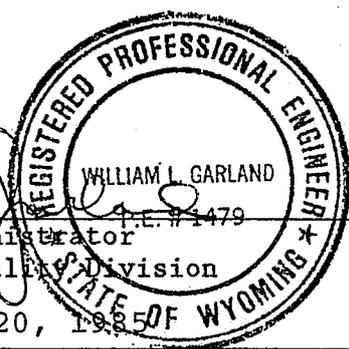
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

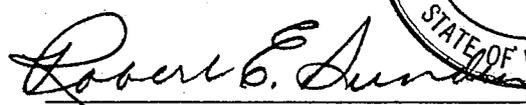
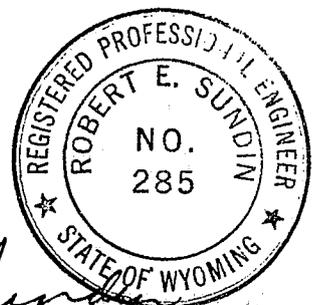
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 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
P.E. # 1479
Administrator
Water Quality Division
STATE OF WYOMING
May 20, 1985
Date of Issuance



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

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

WATER QUALITY DIVISION
GROUNDWATER SECTION
PERMIT APPLICATION REVIEW

*Norman
Returned to
Lander
5-14-85.*

APPLICATION NUMBER 84-547 R

DATE SUBMITTED FOR REVIEW 5-2-85

NAME AND LOCATION OF FACILITY LAWRENCE BROWN DISPOSAL LAGOON
Sec 7, T17N R 120W
UINTA Co.

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

- No comment. The submittal is consistent with current groundwater protection procedures and requirements.
- Comments attached.

SIGNED Richard J. Gunnop
TITLE Eng Eval
DATE 5-14-85

ACCEPTED FOR RECORD 5/14/85
(Date)

ajm
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: Wyoming Finance Sewage Lagoon Modification

ENGINEER: Eugene P. Smith
107 Broken Circle Drive
Evanston, WY 82930

OWNER: Wyoming Finance Company
P. O. Box 133
Evanston, WY 82930

WATER QUALITY DIVISION REFERENCE NUMBER: #84-547

REVIEWING EVALUATOR: Jeff Hermansky

DATE OF REVIEW: December 10, 1984

ACTION: Not authorized.

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

1. The remolded permeability of the most clayey material found in the lagoon bottom was 3.2×10^{-7} cm/sec. The soils found in other locations would be expected to have a faster permeability rate since these soils do not have as much clay as the sample tested.

Since the lagoon bottom does not meet the requirement of three feet of 1×10^{-7} soil as a natural liner, the applicant must document that the facility will pose no threat to groundwater. Therefore, a complete subsurface study must be conducted to determine if the geology is suitable for the proposed facility modification.

If the following recommendations, which were made in Northern Engineering and Testing's October 16, 1984 report were completed, there should be sufficient information to do a groundwater protection evaluation:

- (1) Field investigations should be performed with an exploration drilling program to:
 - a. Determine the subsurface geologic conditions within depth to at least 30 feet below the pond bottom.
 - b. Investigate to see if groundwater conditions exist within this depth.
 - c. Perform in-situ field permeability tests in the natural bedrock materials.
 - d. Secure samples for additional laboratory tests.

ABC

- (2) Determine from the above studies if the in-situ materials meet permeability requirements or if they must be modified (processed and compacted) to meet requirements, or furthermore, if nearby, low permeability clay soils would be required as a liner.

2. Eugene Smith must sign the application forms and support data if he is to be the project engineer.

3. Some drilling fluids can react with clay liners and cause a drastic increase in permeability over what is found for clean water. Please address this concern in regard to the soils that will be used for your pond and a representative drilling fluid.

Please be aware that additional questions and comments may arise after we have an opportunity to review the information that you will submit in response to this review.

Feel free to contact either Jack Bedessem or me if you have any questions.

JH:dcn

xc: Richard Lennox, DEQ/WQD Cheyenne

Ret to
Lander
12/1/84

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 84-547

Date Submitted For Review 11-29-84

Name and Location of Facility Wyoming Finance Sewage Lagoon
Sec 5 T 17 N R 120 W
Uninta 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 Lander
Title Eng Eval
Date 12-4-84

Approved 12/4/84
(Date)

[Signature]
(Signed)
Groundwater Control Supervisor

MEMORANDUM

TO: A. J. Mancini
FROM: R. J. Lennox 
DATE: December 4, 1984
SUBJECT: Wyoming Finance Sewage Lagoon, Permit Application #84-547 (Ref. No. 82-266R)

1. I reviewed the subject application for groundwater concerns and have the following comments:
 - a. A review of the State Engineers well study shows only one permitted well within a mile of the site. This well has a S.W.L. of 55 feet.
 - b. The remolded permeability of the natural clayey material was 3.2×10^{-7} cm/sec and therefore does not meet DEQ/WQD requirements for liner material; i.e., 1×10^{-7} cm/sec.
 - c. The original lagoons were permitted as a two cell sewage containment lagoon system which may or may not be constructed for compatibility with the various constituents found in drilling fluids. No data or information is presented in the application concerning the drilling fluids or their potential for breaking down the clay liner.
 - d. The Geotechnical Evaluation; Brown Disposal Site, Cell I North of Evanston, Wyoming, submitted by Northern Engineering and Testing Inc. dated October 16, 1984 contained a number of recommendations. If listed recommendations 1 (a through d) and 2 were completed, there should be sufficient information to do a groundwater evaluation.
2. I recommend permit modifications be denied until additional information is received answering the above concerns.

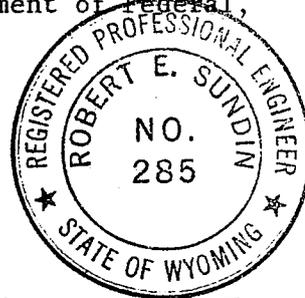
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 L. Garland
Administrator 1479
Water Quality Division
January 28, 1985
Date of Issuance

Robert E. Sundin 2-5-85
Director
Dept. of Environmental Quality

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

JB:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Jim Bridger Mine Sedimentation Pond JB-26

ENGINEER: Mark L. Bricker
Bridger Coal Company
P. O. Box 2068
Rock Springs, WY 82901

OWNER: Bridger Coal Company
Attention: Don Hartley
P. O. Box 2068
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: #84-548

REVIEWING EVALUATOR: Jack Bedessem

JH for JB

DATE OF REVIEW: December 10, 1984

ACTION: **Not authorized.**

COMMENTS: An initial review of your plans has been completed. It is the understanding of this office that Sedimentation Pond JB-26 was erroneously withdrawn from "Permit to Construct" No. 81-536 as per your September 21, 1983 letter. The purpose of this application is to obtain a "Permit to Construct" this pond with modifications.

The following items need to be addressed and/or resolved:

1. Specifications, signed by a registered Wyoming Professional Engineer, are needed for the construction of this facility.
2. Address provisions for determining when the sediment stored in this pond meets or exceeds the one year sediment volume and must be cleaned out.
3. Address the need and provisions for erosion control on the dikes and inlet.
4. Four complete sets of plans and specifications need to be submitted.

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

JB:dcn

ABC

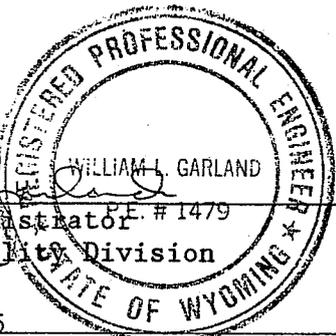
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

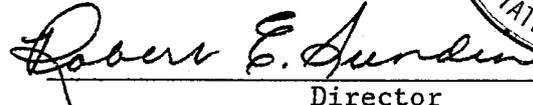
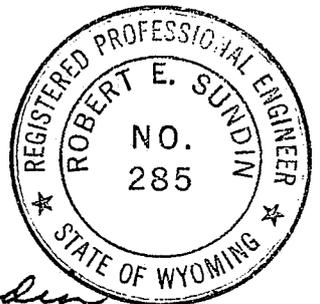
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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AUTHORIZED BY:


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

January 29, 1985
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:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Jim Bridger Mine Sedimentation Pond FP-2

ENGINEER: Mark L. Bricker
Bridger Coal Company
P. O. Box 2068
Rock Springs, WY 82901

OWNER: Bridger Coal Company
Attention: Don C. Hartley
P. O. Box 2068
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: #84-549

REVIEWING EVALUATOR: Jack Bedessem

JH for JB

DATE OF REVIEW: December 7, 1984

ACTION: **Not authorized.**

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

1. Specifications, signed by a Wyoming Professional Engineer, for the construction of this pond (FP-2) need to accompany the plans.
2. Does this pond receive wastewater from the equipment washing facilities? Address whether this volume has been included in the design calculations.
3. Address the need and provisions for erosion control of the dikes and inlet.
4. Address provisions for determining when the sediment stored in this pond meets or exceeds the one year sediment volume and must be cleaned out.
5. Address the reason for enlarging this pond relative to its originally permitted construction (82-113).
6. Four complete sets of plans and specifications need to be submitted.

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

JB:dcn

ABC

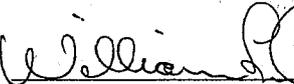
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

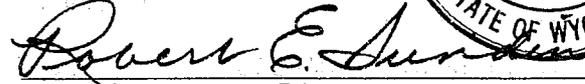
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


WILLIAM L. GARLAND
Administrator #1479
Water Quality Division
STATE OF WYOMING
December 21, 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.

xc: Bearlodge Engineering
P.O. Box 130
Sundance, WY 82729