

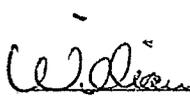
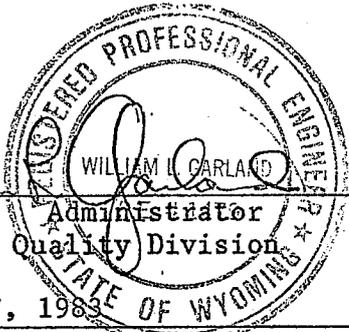
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

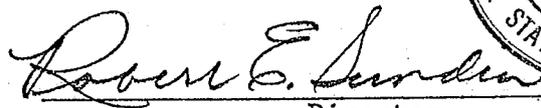
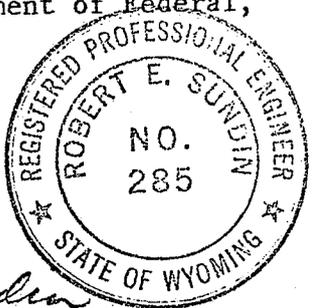
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
January 7, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

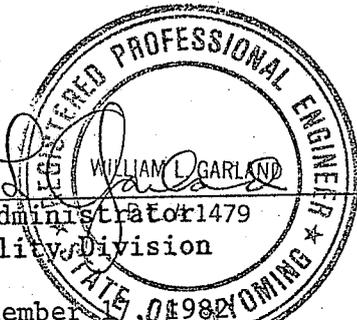
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone 332-3144.

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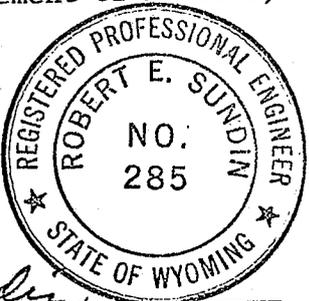
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


William L. Garland

WILLIAM L. GARLAND
Administrator 1479
Water Quality Division
December 1982

Date of Issuance


Robert E. Sundin

Director
Dept. of Environmental Quality

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

Conditions of Permit

1. 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 City of Riverton's 201 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.
2. The permittee shall notify the representative of the Fremont County Planning Department 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. The authorized representative in your area can be contacted at the following address: Ray Price
Fremont County Planning Department
Courthouse Building, Room 200
Lander, WY 82520

FL:dp

cc: Bernie Scott, City Engineer
City of Riverton

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Lot 19, Fremont Industrial Park On-Site Wastewater Disposal Facility

ENGINEER: Tom Axthelm
Inberg-Miller Engineers
124 East Main Street
Riverton, WY 82501

OWNER: Matthews Construction
PO Box 2727K
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 82-753

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: December 3, 1982

ACTION: Not authorized.

COMMENTS: A review of your application has been completed. Before a permit to construct can be issued, the following points need to be resolved.

1. From the legal description provided, it appears the proposed on-site wastewater disposal facility falls within the City of Riverton's 201 Facility Planning Area. As a result, one condition of the permit to construct will be that the on-site facility can be operated until the regional wastewater collection system is made available, at which time the on-site facility must be abandoned or integrated into the regional system. A letter from the owner of the proposed facility agreeing to this condition is required. We also will require a letter from the City Administrator, Bill Peterson, giving his approval for the installation of the proposed on-site disposal facility in that area.
2. A second condition of the permit to construct will be that the permittee notify Ray Price, of the Fremont County Planning Department, of the day construction is scheduled to commence and the estimated completion date of the project. Final inspection of the system is required before it is backfilled. A letter from the owner of the proposed facility agreeing to this condition is also required.

AC

3. The depth to the highest known groundwater or impervious layer is given as "very deep". What is meant by very deep? Please put this in figures.
4. What type of wastewater will enter the sewer system from the floor drain in the shop? What is the shop being used for? If there is a chance of any oil or grease being washed into the floor drain, an oil separator will be required. If a lot of dirt is expected a sediment trap should be installed in the floor drain. If either is required, a detail of these devices will be needed. Also, please try to put a figure on the amount of water going into the system from the floor drain so we can be sure the leach field will have enough absorption area.
5. Please complete the Septic Tank Design information and Disposal sections of the Checklist Sheet.
6. A Plan Sheet (copy enclosed) of the proposed facility showing all of the required separation distances and verifying the proposed leach field is not in a driveway or parking area is needed. Be sure to show the leach field in its entirety so its size can be verified.
7. The septic tank detail provided lacks some vital information such as manhole cover dimensions, baffle vents, % of liquid depth, etc.
8. A typical foundation section, such as shown on our DEQ Septic Tank Detail Sheet, is needed. In fact, why not use the DEQ detail sheet (copy enclosed)?
9. Septic tank inlet and outlet piping must be Schedule 40 PVC or cast iron. The application does not address this.
10. The leach field detail provided does not address the slope of the distribution lines. Once again, why not use the DEQ Disposal Field Detail Sheet (copy enclosed)?
11. The plans need to be signed by the engineer.
12. The "Application for Permit to Construct" form used is no longer in use. Enclosed is the new form. Please use it in the future and submit a completed copy of it with your reply to this letter.

Please submit four (4) copies of the required information and revised plans, to this office. If you have any questions, please call me.

Enclosures

cc: Bill Peterson, City Administrator, City of Riverton
Ray Price, Fremont County Planning Office
File (6)

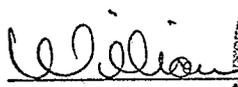
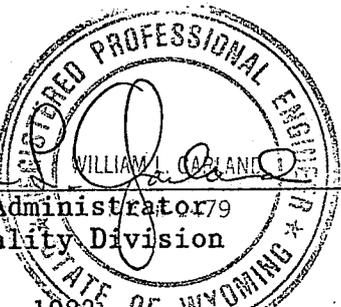
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

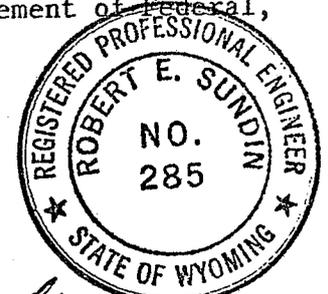
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
December 3, 1982
Date of Issuance



Director
Dept. of Environmental Quality

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

FL:ch

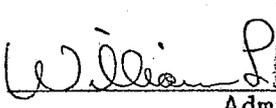
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

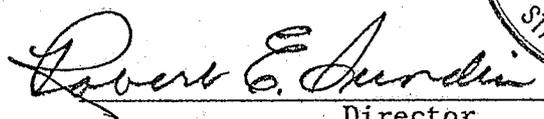
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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
STATE OF WYOMING
July 18, 1983
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: Afton Co-Generation Plant

ENGINEER: Ross Turner
P. O. Box 808
Afton, WY 83110

OWNER: Afton Generating Co., L.P.
P. O. Box 517
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: #82-755R

REVIEWING EVALUATORS: Jack Bedessem (Southwest District--Lander) *JB*
Bill Ewen (Groundwater--Cheyenne)

DATE OF REVIEW: March 29, 1983

ACTION: Not authorized.

COMMENTS: The following comments need to be addressed:

- I. If the rapid infiltration beds are to be constructed at the originally proposed location, the following groundwater monitoring wells should be constructed:
 1. A minimum of four monitoring wells located down gradient (groundwater flow) from the R-I beds. These monitoring wells should extend into the producing aquifer.
 2. A minimum of one monitoring well located down gradient (groundwater flow) from the R-I beds. These monitoring wells should terminate or nest in the clay layer underlying the plant site.
- A. Groundwater monitoring program, for the situation described in item I, should consist of the following:
 - a) For one year prior to the use of the R-I beds, the following should be sampled quarterly (background):
 - the groundwater monitoring wells
 - the two domestic wells closest to the R-I beds, down gradient
 - the plant producing well
 - b) These quarterly samples should be analyzed for the following parameters:

- Total Dissolved Solids	- Arsenic	- Flouride
- Total Kjeklahl Nitrogen	- Barium	- Lead
- Total Phosphates	- Selenium	- Mercury
- Sulfate	- Cadmium	- Nitrate-N
- Iron	- Chromium	- Ammonia-N
		- Silver

AC

- c) After the R-I beds have been placed in operation, the wells listed in item (I)(A)(a) should be sampled:
 - monthly and analyzed for total dissolved solids
 - quarterly and analyzed for the parameters listed in item (I)(A)(b).

- B. Monitoring reports should be submitted monthly within thirty (30) days following the end of the reporting period to:

Tony Mancini, Groundwater Supervisor
Department of Environmental Quality
Water Quality Division
1111 East Lincolnway
Cheyenne, Wyoming 82002

- II. If the rapid infiltration beds are to be constructed on the up gradient (groundwater flow) side of producing well in a location such that the wastewater will be recycled, the following groundwater monitoring wells should be constructed:

- 1. A minimum of one monitoring well located down gradient (groundwater flow) from the R-I beds. These monitoring wells should extend into the producing aquifer.
- 2. A minimum of one monitoring well located down gradient (groundwater flow) from the R-I beds. These monitoring wells should terminate or nest in the clay layer underlying the plant site.

- A. Groundwater monitoring program for the situation described in item II, should consist of the same criteria listed in items (I)(A)(a)(b)(c).

- B. Monitoring reports should be submitted under the same criteria as (I)(B).

- III. A permanent log should be kept at the plant site, recording all sampling data, dates, changes in plant process chemicals, etc.

- IV. After one year of operation, the DEQ/WQD will review the monitoring program and revise it as necessary.

- V. The owner of the facility should be made aware that this monitoring program will not provide positive protection for the groundwater. The owner will be responsible and in violation of the Wyoming Environmental Quality Act, if the groundwater or any domestic wells are impacted by the wastewater disposal of this facility.

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

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: Afton Generating Company, L. P.

ENGINEER: Ross M. Turner
Selectronics
P. O. Box 808
Afton, WY 83110

OWNER: Afton Energy Inc.
P. O. Box 517
Afton, WY 83110

WATER QUALITY DIVISION REFERENCE NUMBER: 82-755

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: January 21, 1983

ACTION: **Not authorized.**

COMMENTS: An initial review of the above mentioned project has been made. Before the review can be completed and a "Permit to Construct" issued, the following points need to be resolved or addressed:

1. Address the possible land use over the proposed leach field area. It is recommended that if heavy vehicle traffic is possible, fencing or barricades be placed around the site.

Note the applicant proposes to infiltrate 69,000 gpd of power plant wastewater. The groundwater table lies at a depth of approximately 110 feet and is a Class I aquifer. This aquifer is used heavily for domestic purposes and irrigation. The wastewater is projected to contain 600-800 ppm total dissolved solids, 20-30 ppm phosphates, and 25-30 ppm of organic water treatment chemicals.

2. Information is needed as to what are the geologic and hydrogeologic conditions below the proposed rapid - infiltration beds.

3. Information is needed as to what impact the wastewater will have on the quality of the Class I aquifer.

4. A complete list of all chemical additives used in the generating plant which could possibly end up in the wastewater is required. Note whether each chemical has been approved by the FDA for food contact purposes. (This material will be kept confidential if requested.)

AC

of Plans and Specifications

on Generating Company, L. P. - #82-755

January 21, 1983

Page Two

5. A map showing the locations and depths of all water wells within $\frac{1}{2}$ mile radius of the proposed R-I beds is required. Include the operational status of each.
6. Plans for monitoring the volume and chemistry of the wastewater should be provided.
7. A groundwater monitoring plan should be proposed. The monitoring program must be able to detect potential deterioration of the Class I aquifer before the water quality at the existing water wells is affected.
8. The owner (applicant) must be aware that if the groundwater or any water wells are impacted by the wastewater disposed of through these R-I beds, the owner is responsible, and in violation of the Environmental Quality Act as defined by the State of Wyoming. Find enclosed (1) Chapter VIII "Quality Standards For Wyoming Groundwaters", and (b) "Wyoming Environmental Quality Act" note Article 3.

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

JB:dcn

Enclosure

cc: Bill Ewen, Cheyenne DEQ/WQD

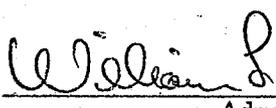
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone 332-3144.

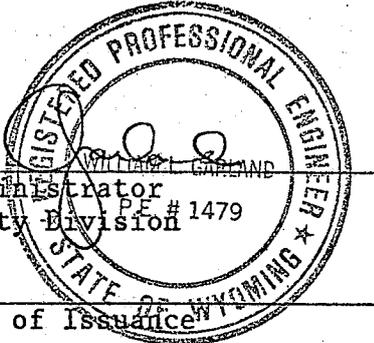
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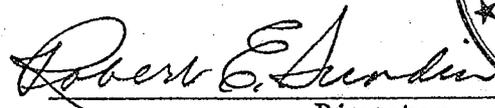
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AUTHORIZED BY:

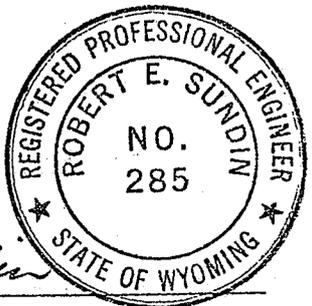


Administrator
Water Quality Division PE # 1479





Director
Dept. of Environmental Quality



January 27, 1983

Date of Issuance

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

* CONDITIONS OF PERMIT *

1. This permit is issued with the condition that a minimum freeboard of three (3) feet must be maintained at all times. Failure to maintain the required amount of freeboard is a permit violation.
2. No waste crude is to be disposed of or stored in the facility authorized by this permit.

FL:dcn

JAKE

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Wolfe Waste Water Disposal Facility

ENGINEER: Doyle Mangus, P.E.
D M Consulting, Inc.
330 South Center, Suite 419
Casper, WY 82601

OWNER: Jack Wolfe
Box 98
Worland, WY 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 82-757

REVIEWING ENGINEER: Frank LaBarge--District Office; Mic Brenoel--Groundwater Section,
Cheyenne

DATE OF REVIEW: January 5, 1983

ACTION: Not authorized.

COMMENTS: A review of your application has been completed.

The groundwater monitoring system is unjustified in this application. There is no groundwater information nor any certified geologic investigation submitted. Mic Brenoel has conversed with Mr. Wolfe about changing his design considerations to include a leak detection system instead of monitoring wells; however, after reviewing the most recent design criteria and data requirements, it is apparent that Mr. Wolfe need not install either monitoring wells or a leak detection system. In lieu of doing a geologic and hydrogeologic study for the proposed construction project, "a bentonite liner three feet thick and compacted to provide a permeability of 10^{-7} cm/sec could be used . . ." (section 5, page 3 existing DEQ Regulations Concerning Oil and Gas Well Drilling Operations).

The soil survey interpretations submitted as part of the application does not appear to be pertinent nor supportive to this site and application.

The percolation tests performed by Charles E. Bartlett of John W. Donnell and Associates, Inc. indicated a wide variety of perc rates for an area that is only 100' x 100'. This information and those facts previously mentioned lead me to the following conclusions:

1. No monitoring will be required if 3' of compacted bentonite with a permeability of 10^{-7} cm/sec is provided, as described in aforementioned regulations (copy enclosed). If you elect to install the 3' compacted bentonite liner, the plans should be revised to show this liner and how it will be anchored on the side walls. The liner must extend to the top of the dikes. The specifications must also be revised to include a detailed statement on how the liner will be placed, compacted to a density of 10^{-7} cm/sec and anchored. Choosing this option will allow you to delete the section on monitoring wells from your specifications and the plan sheet.

ABC

Review of Plans and Specifications
Wolfe Waste Water Disposal Facility #82-757
January 5, 1983

2. The calculations submitted with the application are based upon the dimensions of Cell #1 being 270' x 270' but Mr. Wolfe has indicated that this cell will actually be 100' x 100', which means the facility will not be able to contain the volume of wastewater calculated. This is, however, an irrelevant point for total containment systems as a condition of your permit will be that at least 3' of freeboard must be maintained at all times. Please acknowledge in writing that you agree to this condition.
3. The plan sheet needs to be revised to show the actual dimensions of Cell #1 (i.e. 100' x 100').
4. The specifications should note what the wording on the warning signs will be. Recommended wording is: Warning, Wastewater Disposal Facility, Keep Out.
5. Flagging is required across each pond to keep birds off. It is recommended that flagging be installed at intervals not to exceed 50'. A wire with brightly colored plastic strips approximately 1½' to 2' in length every 2' or 3' will suffice. This should be included in the specifications.
6. Please show the heights of the various dikes on the cross-sectional drawings.

Please submit the required information and revised plans and specifications in triplicate to Frank LaBarge in Lander. If you have any questions concerning the groundwater comments or liner requirements, please call Mic Brenoel at 777-7085. Any questions concerning items 2 through 6 should be directed to Frank LaBarge at 332-3144.

FL:dcn

Enclosure

Mailed
1-4-83

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 82-757

Date submitted for review 8 dec 82

Name and location of facility Wolf Waste Water Disposal
sec. 3 T46 R92
Washtakie 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 Michael R. Brenard

Title Groundwater Compliance Specialist

Date 30 dec 82

Review Approved _____

Not Approved X

(Date)

(Signed)

Groundwater Control Supervisor



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: Frank La Barge, WQD, Lander ajm
 THROUGH: Tony Mancini, Groundwater Control Supervisor, WQD
 FROM: Mic Brenoel, Groundwater Compliance Specialist, WQD ~~MS~~
 DATE: December 30, 1982
 SUBJECT: 82-757, Wolf Waste Water Disposal Pond

The permit application states in item 4 that the facility will consist of "one pit 100' x 100' x 7' ... two pits 300' x 300' x 7' ..." yet all of the design data submitted by Steedley and Associates indicates that the #1 pond (receiver) will be 270' x 270' (surface area). This inconsistency should be cleared up! A phone conversation to Mr. Jack Wolf on December 28, 1982 indicated that he preferred to build the 100' x 100' receiving pond. He anticipates much smaller total volumes than considered in the Steedley and Associates figures.

The groundwater monitoring system is unjustified in this application. There is no groundwater information nor any certified geologic investigation submitted. I have conversed with Mr. Wolf about changing his design considerations to include a leak detection system instead of monitoring wells, however after reviewing the most recent design criteria and data requirements it is apparent that Mr. Wolf need not install either monitoring wells or a leak detection system. In lieu of doing a geologic and hydrogeologic study for the proposed construction project, "a bentonite liner three feet thick and compacted to provide a permeability of 10^{-7} cm/sec could be used..." (section 5, page 3 existing DEQ Regulations Concerning Oil and Gas Well Drilling Operations).

The soil survey interpretations submitted as part of the application does not appear to be pertinent nor supportive to this site and application.

The percolation tests performed by Charles E. Bartlett of John W. Donnell and Associates, Inc. indicated a wide variety of perc rates for an area that

Memo

Frank LaBarge

December 30, 1982

Page 2

is only 100' x 100'. This information and those facts previously mentioned lead me to the following conclusion:

- 1) No monitoring required if 3' of compacted bentonite with a permeability of 10^{-7} cm/sec is provided, as described in aforementioned regulations (copy enclosed).

EXISTING DEQ REGULATIONS CONCERNING
OIL AND GAS WELL DRILLING OPERATIONS

The Water Quality Division of the Department of Environmental Quality provides the following information in an attempt to inform the oil and gas industry of permit requirements relating to water quality protection. This information given will indicate how the program is being administered at this time.

The existing Chapter III, Wyoming Water Quality Rules and Regulations do not provide any exemptions for obtaining construction permits for treatment works, disposal systems or other facilities capable of causing or contributing to pollution. The Division has administered the program allowing exemption of certain facilities based on overlapping authority, ability to regulate, pollution potential, etc. These exempt facilities are contained within this writeup as well as other items of interest.

Reserve Pits; Holding and Disposal of Excess Liquids

Reserve pits are generally constructed without the ability to accurately assess subsurface conditions such as drilling depth, time involved, groundwater hydrology, etc. The terrain in many locations is steep, requiring large areas of disturbance for small drilling sites. Due to construction costs and attempts to minimize surface disturbance, occasionally these pits are not constructed large enough to hold all the drilling fluids and produced water which are encountered.

W.S. 35-11-301(a)(iii) requires a permit to construct any treatment works, disposal system or any other facility capable of causing or contributing to pollution.

Several other federal and state agencies have authority over the construction, operation and reclamation of these facilities. Because of their construction requirements and the Water Quality Division's regulations dealing with accidental discharges (spills), the Division believes that the resources and manpower necessary to carry out a construction permit program for surface water protection on these temporary facilities can not be justified. Therefore, the Division does not require a permit to construct for reserve pits used for and only during a single well drilling operation. These exempted pits can only accept drilling fluids, produced water or sanitary wastes accumulated during the drilling operation. The pits shall be reclaimed after disposal of water from the single drilling operation has been accomplished. The exemption does not relieve the operator of the requirements to protect ground and surface waters under existing laws and regulations.

Of particular concern with this exemption process is the location of reserve pits in porous soils which do not protect groundwater or location of the bottom of a pit in groundwater. Reserve pits located with these site deficiencies should not be allowed by the Oil and Gas Commission or land leasing agency. The mud used in a drilling reserve pit will help seal a pit and generally protect groundwater. Building another pit to take care of excess fluids should be lined to provide the same protection.

The Water Quality Division will require construction permit applications pursuant to Chapter III, Wyoming Water Quality Rules and Regulations for any pit which is used for purposes other than to service one well during the time which the well is being drilled.

Pits requiring construction permit applications pursuant to Chapter III, Wyoming Water Quality Rules and Regulations are generally pits which are used to hold drilling fluids and excess produced water from more than one drilling operation and/or wastes from other sources. Since these pits are not temporary, they pose a greater potential for groundwater pollution. A great potential exists for these pits to be used to dispose of wastes other than oil field wastes due to uncontrolled access. These facilities present environmental concerns not typically addressed by the other regulating federal and state agencies.

When the need arises for additional storing and disposal facilities at active well drilling sites, the situation requires immediate action to prevent an illegal surface discharge.

The following acceptable alternatives exist for holding or disposing of excess drilling fluids or drilling produced water:

1. Enlarge the existing exempted pit(s) capacity;
2. Haul to a full containment DEQ permitted facility;
3. Make application to DEQ and obtain a permit to construct a new wastewater disposal facility;
4. Obtain a permit from DEQ for land application or discharge of reserve pit water.

DISPOSAL OF DRILLING FLUIDS OR WASTE BY INJECTION DOWN A WELL IS PROHIBITED UNLESS A PERMIT IS OBTAINED FROM DEQ PURSUANT TO CHAPTER IX, WYOMING WATER QUALITY RULES AND REGULATIONS.

Often, the treatment works or disposal facilities permitted by the Department of Environmental Quality are located at a distance which makes hauling fluids economically impractical (alternative No. 2). A pit meeting alternative 1 may not be available or acceptable. The construction of a new disposal facility requires time for preparation and processing of a permit application. Lack of time required would eliminate alternative 3. However, this alternative may be the only one available to the driller.

In an effort to speed up the permit evaluation process required in item 3, an applicant can conduct a subsurface investigation at a disposal site. This shall consist of at least two core drills, with one located upgradient and one downgradient of a proposed site. The following information can be submitted via telephone to the groundwater section of the Water Quality Division at (307) 777-7781:

Minimum Data Required for Evaluation
of Holding or Disposal (mud) Pit Site

1. Legal description (approx) of pit site, topography description.
2. Depth to groundwater or impervious layer.
3. Quality of groundwater and pit water (TDS). Note any use of chemicals containing heavy metals used in the drilling process.
4. Type of earth material/geologic formation at the proposed pit site. Subsurface information must be provided by a geologist, professional geologist (as defined by W.S. 9-3-1401) or a Wyoming licensed professional engineer. The provider shall provide documentation as to the potential for surfacing of pit water and the facility's ability to prevent groundwater pollution.
5. Pit construction (liner, excavation or fill).

If the Water Quality Division determines that groundwater pollution potential is minimal, notification that a permit is not required will be given pursuant to Section 4.e. of Chapter III, Wyoming Water Quality Rules and Regulations. If not, another site must be chosen or a permit to construct must be applied for.

Another method of obtaining a permit would be to request, by telephone, a permit to install a synthetic impervious lined pond with a liner leak detection system on an emergency basis. This would entail relaying first the construction details and followed by the engineering plans and specifications. A bentonite liner three feet thick and compacted to provide a permeability of 10^{-7} cm/sec could be used in lieu of the synthetic liner and leak detection system. Other information required includes:

1. Size of impoundment, type of waste to be disposed of, controlled access (specifications on fencing);
2. Typical dike details (slopes);
3. Dike compaction and materials specifications;
4. Erosion control for discharge into pond; and
5. Provision that the pond will always be operated to provide a minimum of three feet of freeboard.

Any particular aspect of the facility, not meeting minimum applicable standards upon evaluation of the followup plans and specifications, will ~~be~~ require upgrading.

Temporary Sanitary Treatment and Disposal Systems for Drilling Site Personnel Camps

After an application for a permit to construct temporary sanitary facilities has been deemed by DEQ to meet minimum construction and design standards, a permit will be issued which can be used at any location. The permit will contain the following conditions:

1. Temporary use is less than one year and the facilities will be removed before the period is up.

2. Holding tanks must be hauled and disposed into a DEQ approved site.
3. Septic tanks and leach fields will be designed for a specified number of people or trailer living units. The leach field design will require percolation tests at each site with a corresponding leach field size installed. No leach field will be installed where groundwater is within four (4) feet of the bottom of the leach field.
4. An NPDES discharge permit is required for any surface discharge and is site specific and not transferable.

Another commonly used practice is to drill a 30-40 foot rathole and dispose of sanitary waste. This process will require an application for a permit to construct on each site where use is proposed. This application must show by a subsurface investigation that groundwater quality is not threatened.

Land and Road Application of Reserve Pit Fluids, Discharges

ANY APPLICATION OF RESERVE PIT WATER TO LAND, SQUEEZING OF PITS TO TRENCHES OUTSIDE THE RESERVE PIT OR THE DISCHARGE FROM RESERVE PITS IS PROHIBITED UNLESS A PERMIT IS APPLIED FOR AND AUTHORIZATION OBTAINED FROM THE DEPARTMENT OF ENVIRONMENTAL QUALITY. Chapter III, Wyoming Water Quality Rules and Regulations requires a construction permit for disposal systems and Chapter II requires permits to discharge to "waters of the state". "Waters of the state" is defined as follows: "Waters of the state" shall mean all permanent and intermittent defined drainages and lakes and reservoirs which are not man made retention ponds used for the treatment of municipal, agricultural or industrial waste; and all other bodies of surface or underground water, either public or private which are wholly or partially within the boundaries of the state".

Application for a permit to apply reserve pit water to land for dust control or disposal can be made on forms provided by Water Quality Division and are available through E.J. Fanning at (307) 777-7781.

IF A LAND APPLICATION OR DISCHARGE PERMIT IS ISSUED, THE PERMIT IS SITE SPECIFIC AND IS NOT TRANSFERABLE. UNDER NO CIRCUMSTANCES WILL A DISCHARGE TO LIVE WATER BE ALLOWED.

MEMORANDUM

TO PLANS: Wolfe Wastewater Disposal Facility, #82-757

FROM: Francis LaBarge *FL*

DATE: January 18, 1983

SUBJECT: Pond Permit

On this date, Jack Wolfe called and stated he needs to get his ponds permitted as soon as possible. Apparently, a critical need for the disposal of wastewater on BLM property has developed. Wolfe was told that the groundwater section still needs additional information to complete their review of his application and that Brenoel is supposed to provide him with a list of exactly what information is still needed.

Wolfe was told that in the meantime, if he wants to, he can go ahead and submit an application for just the first pond showing a 3 foot liner compacted to a permeability of 10^{-7} cm/sec. No additional groundwater data will be required. The application will be reviewed and if it meets standards, a permit will be issued for this small pond. A separate permit will be required for the other ponds.

I told Wolfe to be sure such an application shows the bentonite liner and how it will be anchored on the side slopes; how the liner will be tested to confirm the required permeability has been met; that the results of the liner testing are submitted to DEQ and that the specs show how the required liner permeability will be obtained. Also, the application must be signed by an engineer. I also told Wolfe to have his engineer call me before the application is submitted so I can go over it with him and make sure it is complete.

Wolfe said he is not sure if he will elect this alternative but if he does, he will let me know.

FL:dcn

82-758

THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

December 2, 1983

Mr. Marty Hogan
Sundance Mountain Ski Area
P.O. Box 1057
Sundance, Wyoming 82729

Dear Mr. Hogan:

I have received your recent letter concerning the depth to groundwater under the leach field at Sundance Mountain Ski Area. The information received satisfies our needs and the system is hereby approved. Since the system is already built I cannot issue a Permit to Construct. This letter, however, serves essentially the same purpose. You should keep the letter in your files.

In the future please ensure that appropriate permits are obtained prior to constructing any wastewater treatment or water supply facility.

Thank you for your time.

Sincerely,

A handwritten signature in cursive script that reads "Rich Ruyle".

Rich Ruyle
Environmental Engineer

RR:ls

xc: Norma Coulson
Ralph Goodson

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

June 6, 1983

CERTIFIED

Mr. Ralph Goodson
Bearlodge Engineering
Box 125
Sundance, Wyoming 82729

Dear Mr. Goodson:

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:	Sundance Mountain Ski Area Lodge Septic System
DEQ/WQD Reference Number:	82-758
Engineering Consultant:	Ralph W. Goodson
DEQ/WQD Review Engineer:	Rich Ruyle, Environmental Engineer
Date of DEQ/WQD Review:	January 19, 1983

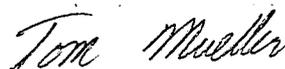
Please indicate below the status of your application and return this form to our office:

- 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. Ralph Goodson
June 6, 1983

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, 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 with 15 days of receipt of this letter, follow-up action will be taken.

Yours truly,



Tom Mueller
District Supervisor

TM:ls

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

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

July 28, 1983

Mr. Mark Saint Pierre
Sundance Mountain Ski Area
P.O. Box 1057
Sundance, Wyoming 82729

Dear Mr. Saint Pierre:

As you know, I inspected the septic system at the Sundance Ski Area on July 12, 1983. The system had been constructed prior to receiving a construction permit from our agency. Such action is a violation of Wyoming State Statutes. The purpose of my inspection was to ensure that the system, as constructed, meets the appropriate Department of Environmental Quality standards and regulations.

Enclosed is my initial review of the plans submitted by Ralph Goodson. The review letter lists the concerns I had about the plans. Having looked at the system and spoken with you, I will detail my current feelings about the items mentioned in the review. I will comment in the same order as the January 19, 1983 review.

1. The two copies we have are sufficient unless you want one copy returned to you.
2. We must know the depth to groundwater at the leach field site. This is imperative in order to properly evaluate the system. Depending on what the depth is, we may also want to know the quality of the groundwater and its direction of movement.
3. Proper separation distances were verified during the inspection.
4. Installation of a grease trap is not a necessity. I will leave it to your discretion. If one is not installed, you should instruct your employees to meticulously keep grease out of the sinks. Grease passing through the septic tanks has a tendency to clog the leach field lines.

Mr. Mark Saint Pierre
July 28, 1983
Page Two

5. The dosing siphon has been deemed acceptable. From your description, it is unlikely that the daily wastewater volume will reach 5,000 gal/day. Consequently, there will probably be sufficient retention time (24 hours) in the septic tanks to prevent excessive transfer of solids through the siphon. No changes are needed in the septic tanks or dosing system.

The only additional information we need right now, then, is the depth to groundwater at the leach field site. Please submit this information within 30 days so we can expediently resolve this matter.

I should also make a comment on your water supply system. Our agency does not have jurisdiction over the construction or monitoring of your system. However, you will probably be required to be on EPA's monitoring program. This would involve periodic sampling of your water supply. I suggest that you call EPA in Denver at (303) 837-2731 and speak to Mark Alston to find out exactly what may be required of you.

Thank you for your time. Please call me with any questions.

Sincerely,



Rich Ruyle
Environmental Engineer

RR:ls
Enclosure
xc: Norma Coulson
Ralph Goodson

1-4-83

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 82-758

Date Submitted For Review 12-17-82

Name and Location of Facility Sundance Mountain Ski Area Lodge
Septic System
Sec 24, T51N R63W
Crook 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.

1. Since there is no groundwater ^{information} attached no review can be made concerning proper depth or type of leach field or whether or not any protective measures need to be taken.

Signed Richard J. Fenney
Title Eng. Civil.
Date 1-3-83

Approved 1/4/83
(Date)

ajm
(Signed)
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: Sundance Mountain Ski Area Lodge Septic System

ARCHITECT OR ENGINEER: Ralph Goodson
Bearlodge Engineering
Box 125
Sundance, Wyoming 82729

WATER QUALITY DIVISION
REFERENCE NUMBER: 82-758

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: January 19, 1983

ACTION: Not Authorized

COMMENTS:

- 1.) Three copies of your submittal are needed unless you do not want one returned to you.
- 2.) The depth to groundwater, quality of groundwater, and direction of movement need to be known to evaluate the leach field. This is especially important with such a "fast" soil.
- 3.) Proper separation distances between the wastewater system and any wells, water lines, and waterways should be verified.
- 4.) If the ski lodge is to have a kitchen, there should be a grease trap upstream of the septic system.
- 5.) Using part of the septic tank as a dosing syphon is not acceptable. There is a possibility of transferring too many solids to the leach field. I suggest using a separate dosing chamber like the one described in the enclosed pages from EPA's Design Manual for Onsite Wastewater Treatment and Disposal Methods. The dosing volume should be approximately equal to the volume of the leach field lines. The effluent pipe from the dosing chamber and/or the leach field lines should be properly vented to allow free flow of wastewater into the leach field.

Feel free to call me with any questions.

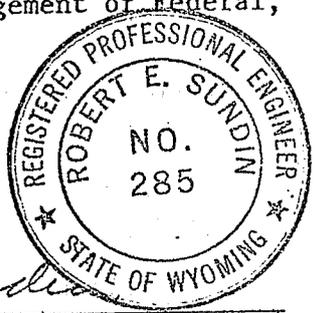
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
February 52 01 1983

Date of Issuance

Robert E. Sundin

Director
Dept. of Environmental Quality

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

xc: Bruce Yates
HKM Associates
24 South Main
Sheridan, WY 82801

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

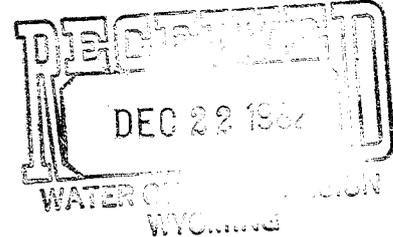
2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

December 20, 1982

Mr. Fred K. Blackard
Triton Coal Company
P.O. Box 3027
Gillette, Wyoming 82716



RE: Buckskin Sedimentation
and Spring Draw Flood
Control Reservoirs

Dear Mr. Blackard:

Enclosed is a review of plans and specifications for two of the proposed facilities at the Buckskin Mine. Permits to Construct for two other facilities have been prepared and you should be receiving them shortly.

The Spring Draw Flood Control Reservoir will not be a water pollution control facility, and thus does not require any Permit to Construct from this agency.

82-760

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

Yours truly,

Tom Mueller

Tom Mueller
District Supervisor

TM:ls

Enclosure

xc: Norma Coulson, w/encl.
Rick Chancellor, w/encl.

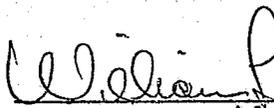
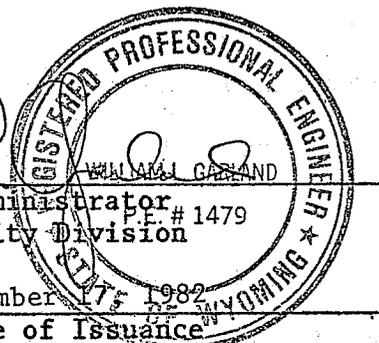
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

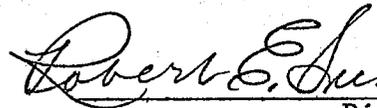
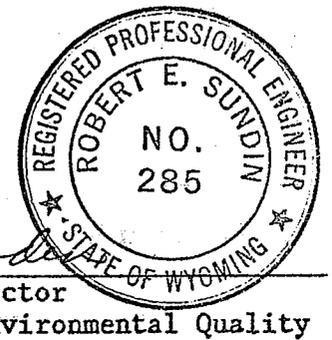
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
December 17, 1982
Date of Issuance



Director
Dept. of Environmental Quality

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

xc: Bruce Yates
HKM Associates
24 South Main
Sheridan, WY 82801

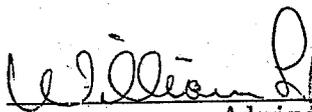
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming, 82801; telephone 672-6457.

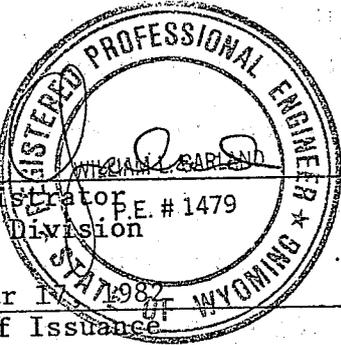
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

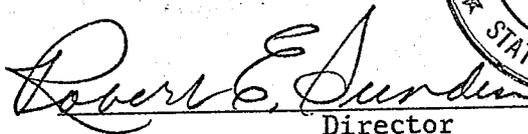
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

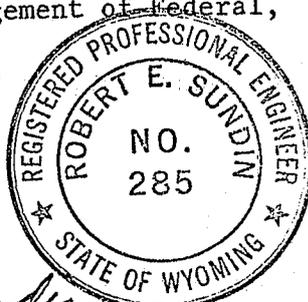


Administrator P.E. # 1479
Water Quality Division
December 17, 1982
Date of Issuance





Director
Dept. of Environmental Quality



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

xc: Bruce Yates
HKM Associates
24 South Main
Sheridan, WY 82801

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Buckskin Sedimentation No. 6 Reservoir
Buckskin Sedimentation No. 13 Reservoir

ARCHITECT OR ENGINEER: Triton Coal Company
Attention: Fred K. Blackard
P.O. Box 3027
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBERS: 82-759 and 82-763

REVIEWING ENGINEER: Tom Mueller *TJM*

DATE OF REVIEW: December 17, 1982

ACTION: Not Authorized for Construction

COMMENTS:

1. The calculations for the No. 6 Reservoir outlet works do not take into account head losses generated by the 27 inch CMP downstream of the weir, and by the flap valve. These losses appear to be of such a magnitude as to cause weir inaccuracies at flows above approximately 8.6 CFS, because flow over the weir may not achieve full contraction before striking the downstream water surface.
2. Installation of V-notch weirs should be such that:
 - a. The distance from the sides of the weir to the sides of the approach channel should preferably be no less than twice the depth of water above the crest and never less than one foot;
 - b. The measurement of head on the weir should be taken as the difference in elevation between the crest and the water surface at a point upstream from the weir a distance of four times the maximum head on the crest.

The weir installation at No. 6 Reservoir does not appear to meet these requirements, which are taken from the Water Measurement Manual, 2nd edition published by the Bureau of Reclamation.

3. The "Top of Outlet Riser" Elevation indicated on Sheet 8 of the drawings is apparently in error. As shown it is 4125.1, which would supply twice the inactive (sediment) storage indicated in the calculations, but slightly less than the calculated active (liquid) storage. It appears the correct elevation should be 4124.8.

*Review
Ret - to Sheridan
1-4-83*

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 82-759-763

Date submitted for review 8 Dec 1982

Name and location of facility Buckskins Mine Sec 32
Triton Coal Co. T 52, R 72
PO Box 3027 Chaparral Co.
Gettelle WY. 82801

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 Jennings

Title Eng. Eval

Date 12/16/82

Review Approved _____

Not Approved _____

(Date)

(Signed)

Groundwater Control Supervisor

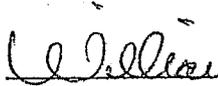
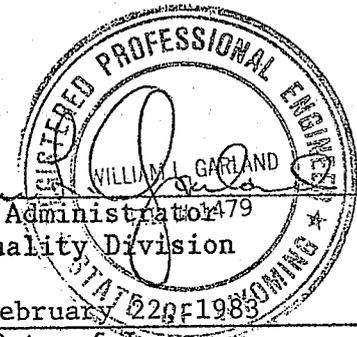
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

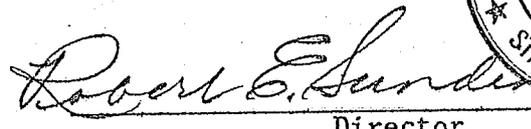
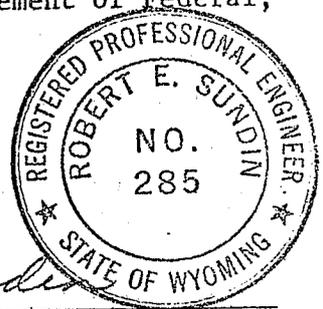
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
February 22, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

xc: Bruce Yates
HKM Associates
24 South Main
Sheridan, WY 82801

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-764R
 SEE SPECIAL CONDITION
 EPA C560126-02

Casper WWTP - Headworks Building
 (Name of Facility)

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

Casper Board of Public Utilities

200 North David

Casper, WY 82601

to construct, install, or modify municipal septage receiving and wastewater pretreatment headworks facilities according to the procedures and conditions of the application No. 82-764R. The facility is located in Section 2, T33N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

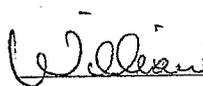
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

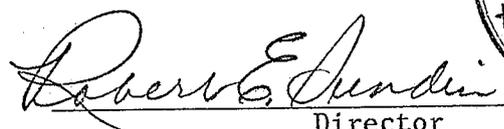
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

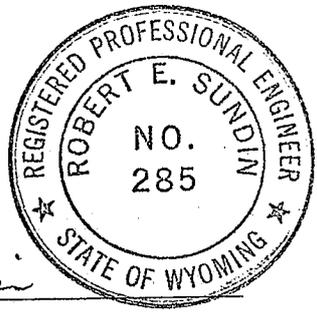
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:


WILLIAM GARLAND
Administrator
Water Quality Division
STATE OF WYOMING
March 30, 1988
Date of Issuance


Director
Dept. of Environmental Quality



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

Condition to Permit to Construct

The applicant must meet the biddability/constructibility requirements of the U.S. Department of the Army, Corps of Engineers.

cc: Dave Raby
CH2M Hill
P.O. Box 22508
Denver, CO 80222

Review of Plans and Specifications

Norma

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: Mills-Casper-Evansville Wastewater System, Headworks Building

ARCHITECT OR ENGINEER: CH₂M Hill

WATER QUALITY DIVISION REFERENCE NUMBER: 82-764 EPA C560126-02

REVIEWING ENGINEER: Michael Hackett, Tom Norman, Tom Conrardy Tom C
MFA *TBN*

DATE OF REVIEW: January 27, 1983

ACTION: Not authorized for construction

COMMENTS:

Specifications

1. The specifications should be signed by a Wyoming registered engineer.
2. Page 11026-1 - There are no specifications for the septage pump such as TDH, capacity, rpm's, horsepower, solids passing requirement, etc.
3. Page 11045-1-2 - The minimum thickness of the flights was omitted.
4. Page 11063 - There were no specifications for submersible pumps.
5. The enclosed EPA contract conditions should be included in the specifications. Also, the enclosed specific language should be included in the advertisement for bids and the bid form as required.
6. The correct wage decision from the Department of Labor should be included in the specifications at the time of bid advertisement and must still be valid at the date of award. The enclosed "request for determination" may be used by the Casper Board of Public Utilities for a special wage request. The wage decision can be obtained within 30 days and will be valid for a period of 90 days from issuance. The request should be sent to:

U.S. Department of Labor
Employment Standards Administration
Division of Construction Wage Determinations
Room S-3012
200 Constitution Avenue N.W.
Washington, D.C. 20210
ATTN: Gladys Norris
7. The specifications should contain provisions for maintenance of wastewater treatment capability during construction and state that bypassing will not be permitted.
8. The number of days for completion of the contract should be specified.
9. The section of the specifications on award of contract should specify the low responsive, responsible bidder.
10. The experience clause for Section 09820, cementitious coatings, of "minimum 5 years local experience" will be unacceptable unless an option of providing a performance bond in lieu of 5 years experience is included.

Plans

1. Page 1-G-10 - The incoming raw sewage pipe should be 42 inch rather than 48 inch.
2. Page 2-M-2 - The maximum water level was not shown for the septage basin.

General Details

1. Page 15170 - The high level alarm should be at the same level as the 2nd pump on level. Otherwise both pumps will have to fail before the operator realizes that anything is wrong.

2. The "general detail" section was also not signed by a Wyoming registered engineer.

The plans and specifications are being reviewed by the Corps of Engineers for biddability and constructability criteria. Comments from the Corps of Engineers review will be forwarded when available.

82-767



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

June 6, 1983

CERTIFIED

Mr. F. K. Blackard
Triton Coal Company
Buckskin Mine
P.O. Box 3027
Gillette, Wyoming 82716

Dear Mr. Blackard:

You were notified by letter dated December 15, 1982, that a Permit to Construct will be required for modifications to be made to the Buckskin Sedimentation No. 3 Reservoir. Our records indicate that no further information has been received by this office regarding the modifications.

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, and is punishable with a fine not to exceed \$10,000 for each day of violation.

Mr. F. K. Blackard
June 6, 1983
Page Two

Unless the Water Quality Division receives information concerning the status of this project within 15 days of the receipt of this letter, follow-up action will be taken.

Yours truly,

A handwritten signature in cursive script that reads "Tom Mueller".

Tom Mueller
District Supervisor

TM:ls

~~82-765 82-771~~



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING, 82801

TELEPHONE 307-672-6457

December 15, 1982

Mr. F. K. Blackard
Triton Coal Company
Buckskin Mine
P.O. Box 3027
Gillette, Wyoming 82716



Dear Mr. Blackard:

This office has made a preliminary review of the materials submitted December 3, 1982 by Triton Coal. From this review, it appears that the modifications to be made to the Buckskin Sedimentation No. 3 Reservoir will require the issuance of a Permit to Construct.

The remaining facilities covered in the submittal, namely;

- Buckskin Sedimentation No. 1 Reservoir 82-765
- Buckskin Sedimentation No. 2 Reservoir 82-766
- Buckskin Sedimentation No. 7 Reservoir 82-768
- Buckskin Sedimentation No. 10 Reservoir 82-769
- Buckskin Wastewater No. 1 Reservoir 82-770
- Buckskin Wastewater No. 2 Reservoir 82-771

will not be physically modified, and no Permits will be required. Unless you object, however, we would prefer to retain the materials you have submitted so as to have an accurate record of the water quality control situation at the mine.

Thank you for your cooperation.

Yours truly,

Tom Mueller

Tom Mueller
District Supervisor

TM:ls

xc: Jake Strohman
Norma Coulson
Rick Chancellor

*Review on 82-767
C*

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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:

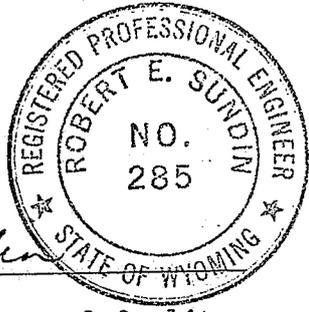


William L. Garland
Administrator P.E. # 1479
Water Quality Division
December 29, 1982
Date of Issuance





Robert E. Sundin
Director
Dept. of Environmental Quality



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

Conditions of Permit

1. Within 30 days following completion of construction of an individual facility, the permittee shall furnish the Water Quality Division with the following: a) the exact size, location, and capacity of the facility, amount of disturbed area and other information used to size the facility; and b) certification that the facility was constructed to meet the approved design requirements and sizing criteria.
2. Rip-rap shall be placed at the outlet of all discharge pipe to such a degree that washout and erosion will not be a problem.
3. Embankments shall be compacted to at least 80% standard proctor and shall not contain undesirable material.

AB:dp

cc: Lander DEQ/LQD

12-23-82

PERMIT TO CONSTRUCT

New

Permit No. 82-773

Renewal

Modified

Superior Plaza Addition
(Name of Facility)

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

R.I. Enterprises

1067 Alta Vista Drive

Laramie, WY 82070

to construct, install, or modify a public water supply distribution and wastewater collection systems facility according to the procedures and conditions of the application No. 82-773. The facility is located in Section 28, T16N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

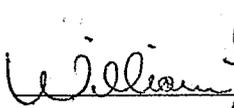
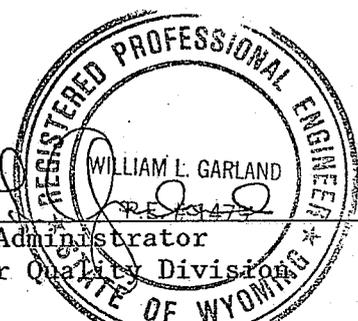
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

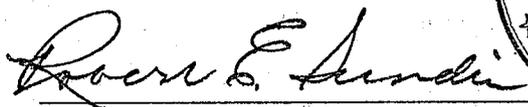
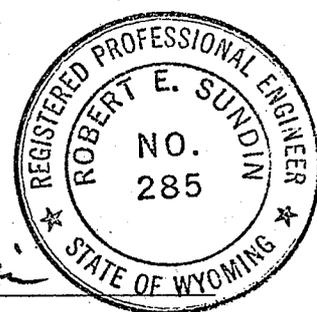
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
REGISTERED PROFESSIONAL ENGINEER
No. 19473
STATE OF WYOMING
Administrator
Water Quality Division



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

December 20, 1982
Date of Issuance

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

cc: Donald Lamb
Associated Engineers
Rt. 2, Box 45, Hwy. 30
Laramie, WY 82070

1-21-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-774R

Yoder Elevated Water Storage Tank
(Name of Facility)

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

Town of Yoder

P. O. Box 86

Yoder, WY 82244

to construct, install, or modify a elevated water storage tank facility according to the procedures and conditions of the application No. 82-774R. The facility is located in Section 34, T23N, R62W in the County of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

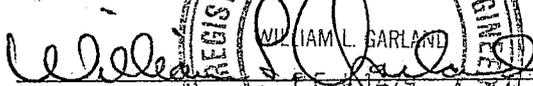
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

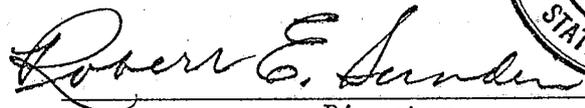
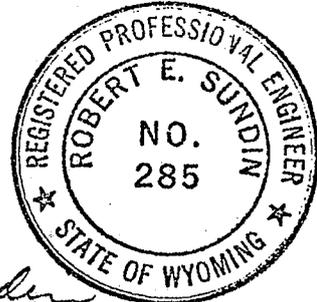
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
January 12, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: Wells Engineers, Inc.
Stephen O. Sandvik, P.E.
1415 11th Street
Gering, NE 69341

Review of Plans and Specifications

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

PROJECT: Yoder Elevated Storage Tank, Goshen Co.

ARCHITECT OR ENGINEER: Charles A. Haas, P.E., Wells Engineers, Inc.
1415 11th St., Gering, NE 69341

APPLICANT: Town of Yoder
P.O. Box 86, Yoder, WY 82244

WATER QUALITY DIVISION REFERENCE NUMBER: 82-774

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

DATE OF REVIEW: December 17, 1982

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Details of the water tank including the following must be submitted: general shape, height, inlet and outlet configurations, overflow pipe, access and ladder locations, vent, and fencing to control access.
2. Will the tank be a welded or bolted type? What will be the thickness of the tank?
3. How will the tank be fastened to the foundation?
4. The EPA list of approved tank coatings we have does not include the Matcote products. Therefore, it cannot be used unless it has been recently approved. The Tnemec, Series 20, Pota Pox paints are approved.

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

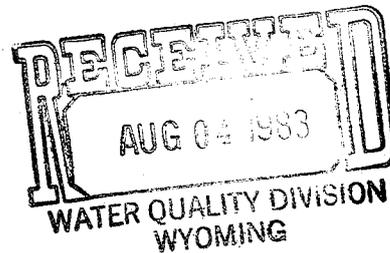
2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

August 3, 1983

Mr. William A. Mentock, P.E.
Engineering Inc. of Wyoming
45 East Loucks, Suite 301
Sheridan, Wyoming 82801



RE: Green Valley Estates Filing No. 3
WQD Reference No. 82-775

Dear Mr. Mentock:

Thank you for your letter informing us that the referenced project has been indefinitely postponed. We are withdrawing the application from our files, and request that the application be resubmitted in the future should the project be reactivated.

Enclosed are the materials submitted for this application.

Sincerely,

A handwritten signature in cursive script that reads "Tom Mueller".

Tom Mueller
District Supervisor

TM:ls

Encl.

xc: Norma Coulson

82-775



ENGINEERING INC. of WYOMING d/b/a Pilch Engineering and Surveying

Consulting Engineers & Land Surveyors
Suite 301 P.O. Office Building
45 E. Loucks
Sheridan, Wyoming 82801
307-674-4224
307-672-6381

Roger Reich P.E.
Bob Sanderson P.E. & L.S.
John Stewart P.E.
Gerald Gaston P.E.

August 1, 1983

Mr. Tom Mueller
District Supervisor
DEQ
Water Quality Division
2161 Coffeen Suite 301
Sheridan, Wyoming 82801



RE: Green Valley Estates Filing No. 3

Dear Tom,

Our client in Gillette has opted to stop all work on this project due to the poor economic conditions in Gillette. He advised us to discontinue our engineering work until further notice. I am returning your status from to you, indicating such.

I will leave it up to you as to what you want to do with his application. If you want us to withdrawn the application and resubmit at a future date, please advise and we will pick it up.

Thank you for your cooperation.

Sincerely,

Wm. A. Mentock P.E.
Engineering Inc.
of Wyoming

WAM/rm



Department of Environmental Quality

Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

July 12, 1983

CERTIFIED



Mr. William A. Mentock
Engineering Inc. of Wyoming
45 East Loucks, Suite 301
Sheridan, Wyoming 82801

Dear Mr. Mentock:

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

Facility name:	<u>Green Valley Estates Filing No. 3</u>
DEQ/WQD Reference Number:	<u>82-775</u>
Engineering Consultant:	<u>William A. Mentock</u>
DEQ/WQD Review Engineer:	<u>Rich Ruyle</u>
Date of DEQ/WQD Review:	<u>December 17, 1982</u>

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

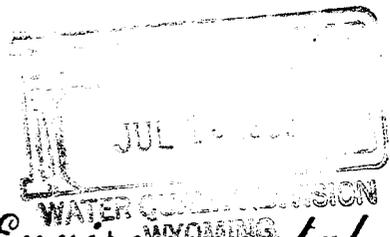
The application cancelled

The

TM:ls

NORMA

THE STATE OF WYOMING



ED HERSCHLER GOVERNOR

Department of Environmental Quality
Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING .82801

TELEPHONE 307-672-6457

July 12, 1983

CERTIFIED

Mr. William A. Mentock
Engineering Inc. of Wyoming
45 East Loucks, Suite 301
Sheridan, Wyoming 82801

Dear Mr. Mentock:

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

Facility name:	<u>Green Valley Estates Filing No. 3</u>
DEQ/WQD Reference Number:	<u>82-775</u>
Engineering Consultant:	<u>William A. Mentock</u>
DEQ/WQD Review Engineer:	<u>Rich Ruyle</u>
Date of DEQ/WQD Review:	<u>December 17, 1982</u>

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

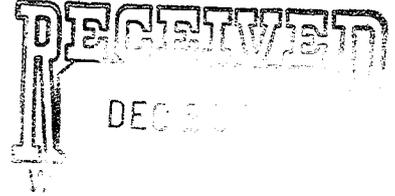
The applica
cancelled

The

NORMA

REVIEW OF PLANS AND SPECIFICATIONS

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



PROJECT: Green Valley Estates Filing No. 3

ARCHITECT OR ENGINEER: Engineering Inc. of Wyoming
45 East Loucks, Suite 301
Sheridan, Wyoming 82801

WATER QUALITY DIVISION
REFERENCE NUMBER:

82-775

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: December 17, 1982

ACTION: Not Authorized

COMMENTS:

- 1.) We need to know the number of living units or the population to be served by the sewer and water extensions. If the existing chemical-physical wastewater treatment facility is to be activated, we need verification that the treatment capacity is sufficient to serve the new development. Adequate water supply and pressure should also be verified.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
Water Quality Division
PE #1479
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING


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

December 30, 1982
Date of Issuance

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

cc: Glen Sugano

PERMIT TO CONSTRUCT

New

Permit No. 82-778RR

Renewal

Modified

AUBURN/GROVER LDS CHURCH WASTEWATER FACILITY
(Name of Facility)

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

Corporation of the Presiding Bishop

LDS Church

50 E. N. Temple St.

Salt Lake City, UT 84150

to construct, install, or modify a septic tank - leach field system

facility according to the procedures and conditions of the application No. 82-778RR. The facility is located in

Sec. 31, T33N, R118W

in the County of Lincoln,

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

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

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

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

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

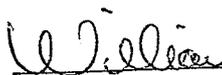
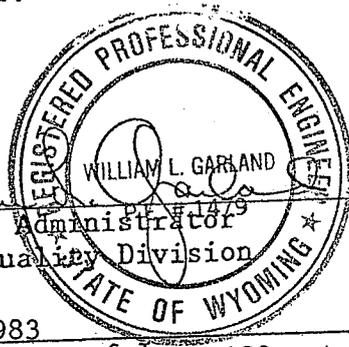
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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.

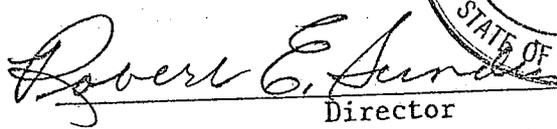
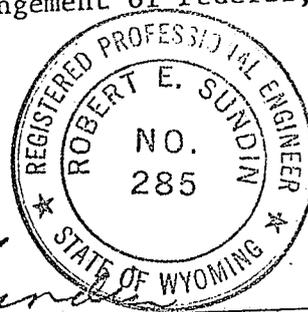
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator
Water Quality Division
STATE OF WYOMING

March 17, 1983

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.

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: Auburn/Grover LDS Church Building

ENGINEER: Charles Sudwicks
Engineered Systems
224 South Arthur
Pocatello, Idaho 83201

OWNER: Corporation of the Presiding Bishop
LDS Church
50 East North Temple Street
Salt Lake City, Utah 84150

WATER QUALITY DIVISION REFERENCE NUMBER: #82-778

REVIEWING EVALUATOR: Jack Bedessem JB

DATE OF REVIEW: January 13, 1983

ACTION: Not authorized.

COMMENTS: An initial review of your plans and specifications has been made. Before the review can be completed and a "Permit to Construct" issued, the following points need to be resolved or addressed:

1. Two additional copies of the facility lay out plans are needed.
2. Information is needed as to the seasonal high groundwater level or impervious layer.
3. A septic tank detail sheet is needed.
4. It is recommended that the two 1,250 gallon septic tanks be placed in parallel rather than in series.
5. It is recommended that a clean out be placed at the alignment change in the line running from the building to the septic tank.
6. Include a clean out detail sheet.

Please submit the required information and revised drawings in triplicate to this office.

JB:dcn

AC

1-21-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-779R

DM CONSULTING, INC., SHOP AND OFFICE
WASTEWATER DISPOSAL FACILITIES
 (Name of Facility)

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

DM Consulting, Inc.
330 S. Center St., Suite 419
Casper, WY 82601

to construct, install, or modify a two septic tank - leach field

facilities according to the procedures and conditions of the

application No. The facilities are located in

Sec. 22, T47N, R92W

 in the County of Washakie,

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

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

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

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

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

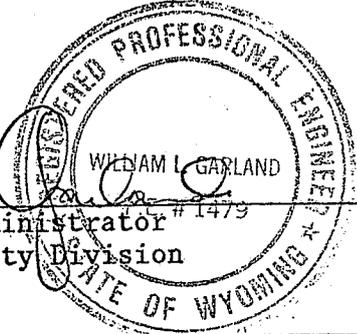
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

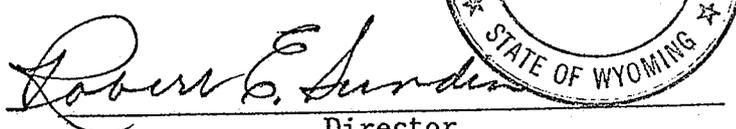
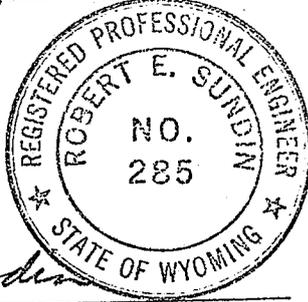
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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



Director
Dept. of Environmental Quality


January 6, 1983

Date of Issuance

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
LANDER, WYOMING 82520
PHONE: (307) 332-3144

PROJECT: D M Consulting, Inc. Office and Shop Facilities
ENGINEER: Stanton J. Abell, Jr.
Grosch Construction, Inc.
1000 Howell Ave.
Worland, WY 82401
OWNER: D M Consulting, Inc.
330 So. Center St., Suite 419
Casper, WY 82601
WATER QUALITY DIVISION REFERENCE NUMBER: 82-779
REVIEWING ENGINEER: Francis LaBarge *FL*
DATE OF REVIEW: December 13, 1982
ACTION: Not authorized
COMMENTS: Your application package was very good; however, before a permit to construct can be authorized, the following points need to addressed:

OFFICE FACILITY

1. The minimum acceptable separation distance between leach field distribution lines is 6 feet as measured from edge of trench to edge of trench. The 6 feet separation distance shown on the plans is from distribution line to distribution line.

SHOP FACILITY

- 2. A minimum septic tank volume of 2650 gallons is required for a wastewater flow of 2040 gallons per day.
- 3. Why is there such a difference in the percolation rates of the two disposal fields? They are both in Greybull Loam and are within a couple of hundred feet of each other. Please provide copies of the percolation tests run at each location.
- 4. A detail of the mud sumps is needed. The sumps should be designed to trap as much of the mud and dirt as possible.

AC

5. Please provide a description of the soaps, detergents, etc. that will be used in the washing operations. Will any solvents be used? If so, what are they and how much.
6. Will there be any oil discharged to the floor drains? If so, an oil separator will be required and details of it are needed. How will waste oil be disposed of?

The following comments apply to both disposal facilities:

7. Please provide an estimate of the depth of the seasonal high groundwater table. Greater than 6 feet is rather vague.
8. A note addressing the septic tank installation should be provided on the plans (i.e. backfill around the tank will be made in thin layers and thoroughly tamped in a manner that will not cause damage to the tank walls).
9. Please show the well and waterline on the plans.
10. The following separation distances need to be shown on the plans:
 - well to septic tanks and leachfields
 - waterline to septic tanks and leachfields
 - disposal facilities to property lines
11. Are there any waterways within 50 feet of any of the proposed facilities?
12. Verification is needed that neither of the disposal fields will be in a driveway or parking area.

Please submit the required information and revised plans, in triplicate, to this office. If you have any questions, please call me.

FL:dcn

cc: Mic Brenoel - Groundwater Section, Cheyenne DEQ/WQD

Washakie

file into permit



DM CONSULTING, INC.

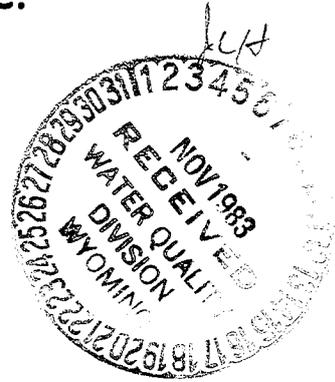
330 South Center

Suite 419

CASPER, WYOMING 82601

Phone (307) 266-1275

November 4, 1983



Mr. Francis LaBarge
Reviewing Engineer
Wyoming Dept. of Environmental Quality
Water Quality Division
210 Lincoln Street
Lander, WY 82520

Re: Permit #82-779R

Dear Mr. LaBarge:

This letter is to inform you that Waste Water Disposal facilities for the D M CONSULTING, INC. Shop & Office have now been completed, according to above permit #82-779R, and is available for your inspection.

Should you have any questions, please do not hesitate to call.

Sincerely,

D M CONSULTING, INC.

Doyle L. Mangus

DLM/lt

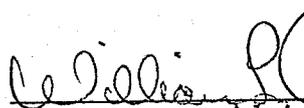
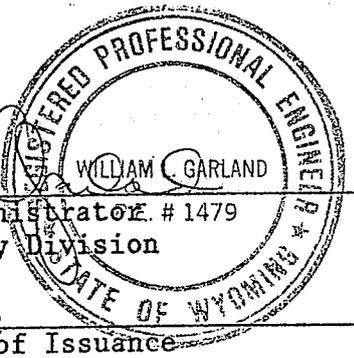
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

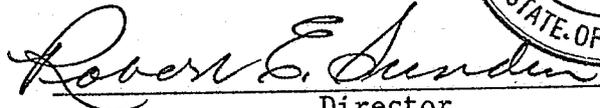
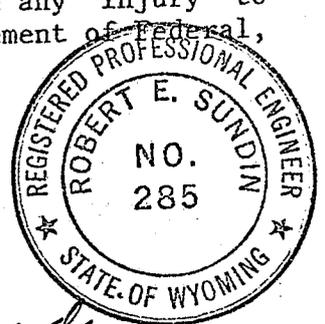
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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 C. GARLAND
Administrator # 1479
Water Quality Division

~~December 13, 1982~~
Date of Issuance


ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-781R

Frontier Square
(Name of Facility)

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

City of Cheyenne

2101 O'Neil

Cheyenne, WY 82001

to construct, install, or modify a potable water mains and sanitary sewer facility according to the procedures and conditions of the application No. 82-781R. The facility is located in Section 20, 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.

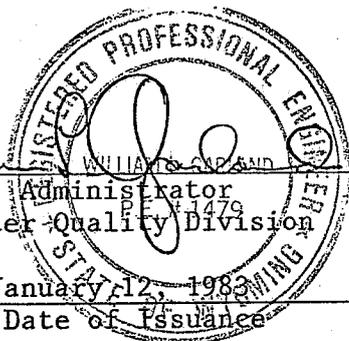
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

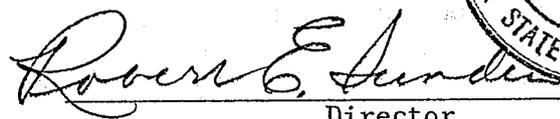
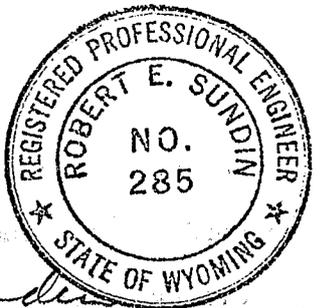
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
January 12, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: Charles B. Richardson
Jack Noblitt & Assoc.
1912 Capitol Avenue, S. 40
Cheyenne, WY 82001

Review of Plans and Specifications

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

PROJECT: Frontier Square, Laramie Co.

ARCHITECT OR ENGINEER: Charles B. Richardson, Jack Noblitt & Assoc.
1912 Capitol Ave., Cheyenne, WY 82001

APPLICANT: City of Cheyenne
2101 O'Neil, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 82-781

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

DATE OF REVIEW: December 16, 1982

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. A minimum of 18-inches shall be provided between the water main and storm sewer.
2. The 6-inch sanitary sewer in Del Range Blvd. must be increased to an 8-inch pipe.
3. Check the grades and inverts for the 12-inch sewer. They don't seem to agree.

12-23-82

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-782
SEE SPECIAL CONDITIONS

Ralph C. Middleton Residences
(Name of Facility)

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

Ralph C. Middleton
P.O. Box 1495
Cheyenne, WY 82001

to construct, install, or modify a small subsurface wastewater disposal system facility according to the procedures and conditions of the application No. 82-782. The facility is located in Section 26, 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: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 30, Sheridan, Wyoming 82801; telephone, 672-6457.

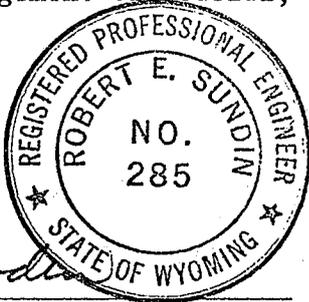
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 479
Water Quality Division
December 10, 1982
Date of Issuance


Robert E. Sundin

Director
Dept. of Environmental Quality

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

cc: Jon Anderson
AVI Engineers
7300 Yellowstone Rd.
Cheyenne, WY 82009

Conditions to Permit to Construct

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

Don Pack
Laramie County
315 West 20th Street
Cheyenne, WY 82001

2. 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 Final Cheyenne 201 Facilities 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 Final Cheyenne 201 Facility Plan.



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 23, 1983

Mr. Wendall Sheppard
Box 2792
Mills, WY 82644

RE: Application for Permit to Construct
DEQ Ref. No. 82-783

Dear Mr. Sheppard:

In response to your reply to my January 26, 1983 letter, in which you indicate that the above referenced application will not be resubmitted because the proposed project has been cancelled, your application has been withdrawn from our files.

Yours truly,

A handwritten signature in cursive script that reads "Francis LaBarge".

Francis LaBarge
Northwest District Supervisor

FL:dcn

cc: Don Wolford - Washakie County Planner
Archives with attachments

CERTIFIED

Mr. Wendall Shepard
Box 2792
Mills, WY 82644

Dear Mr. Shepard :

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: Shepard Wastewater Disposal Facility
 DEQ/WQD Reference Number: 82-783
 Engineering Consultant: NONE
 DEQ/WQD Review Engineer: Francis LaBarge
 Date of DEQ/WQD Review: December 15, 1982

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

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

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

Sincerely,

Francis LaBarge

cc: Don Wolford
 Washakie County Planner

Francis LaBarge, P.E.
 Northwest District Supervisor
 Water Quality Division

REVIEW OF PLANS AND SPECIFICATION
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Shepard Wastewater Disposal Facility

ENGINEER: None

OWNER: Wendall Shepard
Box 2792
Mills, WY 82644

WATER QUALITY DIVISION REFERENCE NUMBER: 82-783

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: December 15, 1982

ACTION: Not authorized.

COMMENTS: Your application has been found to be incomplete and cannot be accepted for review as per Section 4(c) of Chapter III of the Wyoming Water Quality Rules and Regulations.

The plans must be signed or stamped by an engineer registered in the State of Wyoming to be accepted for review. The application is being returned to Mr. Don Wolford of the Washakie County Planning Office at his request.

Please have an engineer review the application, sign it and return it to this office in triplicate. If you have any questions, please call.

FL:dcn

cc: Don Wolford, Washakie County Planning Office

AC



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 15, 1982

Mr. Don Wolford
Washakie County Planning Office
P. O. Box 1253
Worland, WY 82401

RE: Shepard Wastewater Disposal
Facility, DEQ #82-783

Dear Mr. Wolford:

As per our conversation on this date, the above referenced application is being returned to you with this letter. Also enclosed is a copy of my review letter which has been sent to Mr. Shepard.

If you have any questions concerning the application before it is resubmitted, please call me.

Yours truly,

A handwritten signature in cursive script that reads "Francis LaBarge".

Francis LaBarge
Northwest District Supervisor

FL:dcn
Enclosure
cc: Cheyenne DEQ/WQD
Wendall Shepard - Applicant

1-26-83

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
401 West 19th Street
Cheyenne, Wyoming 82002

PROJECT: As-Built Construction Plans, UPRR Tie Treatment Facility, Laramie -
Phase I Report Review

ARCHITECT OR ENGINEER: Robert D. Mockworth
UPRR
1416 Dodge Street
Omaha, Nebraska 68179

WATER QUALITY DIVISION REFERENCE NUMBER: 82-784R

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

DATE OF REVIEW: January 26, 1983

ACTION: Inadequate information. Following items indicate non-compliance with minimum State standards, or a request for additional information.

COMMENTS:

- 1) A mean annual lake evaporation rate for the industrial wastewater contained in the ponds will be required to complete a mass balance study of the pond.
- 2) As outlined in Section 6b of the Litigation Suspension Agreement, Phase I, a mass balance study must be completed to determine the integrity of the ponds.
- 3) Based upon the information contained in Table 6-1, Relative Pond Levels (November 17 - December 14, 1982), page 6-8, Volume 1, Phase I Report, information submitted on the as-built construction plans, and field observations of ice coverage/oil wastewater surface characteristics, it appears that the ponds are losing fluid through percolation rather than evaporation. Since oily substances are present on the wastewater surface and also due to ice/cold weather conditions, one could expect very little evaporation from this system. Existing climatic data indicated a precipitation of 0.65 inches during this period. Any minor evaporation would be offset by the precipitation events.
- 4) The wastewater line from the treatment facility to the pond system does not comply with minimum slope of 0.60 feet/100 feet for a 6 inch line.
- 5) The wastewater transport velocity (1.7 feet/second) does not comply with the minimum State standard of 2.0 feet/second when flowing full.
- 6) What is the present day integrity of the wastewater line? Is it leaking at the joints? Has the wastewater corroded the pipe material?
- 7) The wastewater line does not comply with State standards for manhole spacing.
- 8) Provide Material Safety Data Sheets for the Garrat Callann Company chemicals in the steam generator boiler. Indicate quantity and concentration of compounds used per time period.

MASS BALANCE DATA/ANALYSIS

$$\text{Receiving pond: } (0.17 \text{ acres}) (43,560 \text{ ft}^2/\text{acre}) = 7405 \text{ ft}^2$$

$$\text{Pond 1: } (1.02 \text{ acres}) (43,560 \text{ ft}^2/\text{acre}) = 44,431 \text{ ft}^2$$

$$\text{Pond 2: } (2.51 \text{ acres}) (43,560 \text{ ft}^2/\text{acre}) = 109,336 \text{ ft}^2$$

$$\text{Total } \underline{161,172 \text{ ft}^2}$$

Total Discharge to Pond System (17 Nov - 14 Dec 82):

$$3(12,000) = 36,000 \text{ gals}$$

$$\frac{36,000 \text{ gals}}{7.48 \text{ gals/ft}^3} = 4813 \text{ ft}^3 \text{ wastewater added to system}$$

therefore, expected rise in wastewater level in pond system should be:

$$\frac{4813 \text{ ft}^3}{161,172 \text{ ft}^2} = + 0.03 \text{ ft}$$

Data in Table 6-1 shows zero increase in pond level for the receiving pond, a 0.04 foot decrease in pond level for pond 1, and a 0.04 foot decrease in pond 2.

therefore, total loss of fluids from ponds would be:

$$0.04(44,431 + 109,336)(7.48) + 36,000 \text{ gals added}$$

$$0.04(153,767)(7.48) + 36,000$$

$$46,007 + 36,000 = \underline{82,007 \text{ gals}}$$

82,007 gallons excluding evaporation and precipitation

$$\frac{82,007 \text{ galls}}{28 \text{ days}} = 2929 \text{ gals/day} \equiv 1,069,085 \text{ gals/yr}$$

Data from the Water Resources Research Institute (Loramie) indicates the following precipitation events during this period:

22 Nov	0.13"
1 Dec	0.36"
2 Dec	0.03"
4 Dec	0.09"
5 Dec	0.02"
13 Dec	0.02"
14 Dec	0.01"
	<hr/>
	0.65 inches

Since oily substances are present on the wastewater surface and also due to ice/cold weather conditions one could expect very little evaporation from this system. Existing climatic data indicated a precipitation of 0.65 inches. Any minor evaporation would be offset by the precipitation events.

Average Daily Air Temperatures

17 Nov	29 °F	1 Dec	28 °F
18	28	2	12
19	32	3	15
20	23	4	17
21	20	5	19
22	3	6	26
23	—	7	12
24	—	8	5
25	—	9	18
26	—	10	19
27	—	11	10
28	—	12	22
29	—	13	24
30	—	14	15

DEPARTMENT OF ENVIRONMENTAL QUALITY

REVIEW OF PHASE I REPORT
DOCKET 96-159
LARAMIE COUNTY DISTRICT COURT

The objectives of the Phase I study were not entirely met and there are serious shortcomings in the information generated during the study. The objectives were to determine the presence, sources, and movement of contamination on the surface, in the alluvium, and in the Laramie River and to conduct background investigations of the bedrock to allow for preliminary identification of alternative remedial actions.

Shortcomings in the Phase I study will be addressed in three segments; the first segment addressing the overall objectives, the second segment addressing the individual elements of Phase I. It needs to be understood that the overall objectives encompass all the individual elements of the study and give direction to the study, whereas; the elements themselves should be performed with an eye toward correlation with the study objectives.

Of the overall study objectives, the following were either not met at all or addressed only tangentially:

1. The presence, sources, and movement of contamination have not been defined.
 - a. In the vicinity of the buried waste deposits west of the ponds, a resistivity survey was used to delineate contaminated alluvium and contaminated bedrock. This work stops short of confirming the results with soil borings and analyses. In addition, the determination of the extent of contamination was not pursued along the most probable migration routes as indicated by the flow nets. Specific areas of interest include the low-lying areas north/northwest of the ox-bow and the area between the ox-bow and the river. Borings would almost certainly have disclosed the presence of contamination in these areas.
 - b. The extent of contamination in the Laramie River and the effects on aquatic organisms have been initially identified by benthos studies and microbial adaptation studies. However, the definition of the extent of sediment contamination downstream and the uptake of contaminants by aquatic organisms have not been addressed. These are considered to be important aspects of determining the presence and movement of contamination in the Laramie River. This should have been accomplished in Phase I to meet its objectives and most certainly must now be done during Phase II.
 - c. Contaminant transport rates and contaminant loading rates have not been determined.

- d. No significant work has been performed to define the presence, sources, and movement of contamination in the various waste disposal sites:
1. Site 2;
 2. Tank storage areas;
 3. Previous waste discharge area west of the plant;
 4. Previous waste discharge area north of the plant;
 5. The area around Well U1;
 6. The area beneath the ponds;
 7. The area west of the ponds;
 8. The railroad yard where drippings accumulated;
 9. The areas around underground separator units; and
 10. Area E on Figure 1-5.
- e. The areal distributions and concentrations of various contaminants in both the alluvium and the bedrock remain undefined. This definition was the most basic objective of Phase I.
2. The analyses for organics are considered inadequate because some seem to indicate an absence of contaminants in areas where they were previously found. Specifically, the analyses were performed on samples diluted for the purpose of maintaining the analytical results within a particular sensitivity range of the instrument. The dilution factors were based on the most concentrated components, thereby causing the less concentrated components to be lost or reported as not detectable. The persistence of contaminants previously found on-site would probably be disclosed by the use of a series of analyses rather than one analysis. An undiluted sample should be analyzed for components of relatively low concentrations, followed by more diluted samples for the more abundant components.
 3. The determination of the potential impact of flooding, including dike stability and the transport of product-saturated sediments has been addressed in a very preliminary manner. An extrapolated flood stage at the site was developed by extending a flood stage curve published by a Flood Insurance Study. Flood-impact assessment requires the use of flood-routing techniques which essentially uses upstream as well as downstream hydraulic information.
 4. An understanding of the site hydrology requires information on recharge; specifically, information is needed on recharge from drainages located to the southeast of the site.
 5. The extent of contamination in the bedrock has been identified on a preliminary basis. However, a major obstacle to a good understanding of the contaminant transport is a lack of data on vertical hydraulic gradients.

The following criticisms are concerned with specific elements of the Phase I study.

1. Facility Information

- a. Flow charts of facility processes were not provided.
- c,d. "Design criteria" merely consisted of a listing of the dimensions of the hardware.
- e. The site topographic map is not legible.
- g. In regard to wastes deposited on-site, railroad employees have indicated that an undetermined amount of unidentified refuse has been dumped by trespassers in the past. This fact alone indicates some amount of waste on-site, or formerly on-site, from undetermined origin.
- h (1) Because of the higher detection limits used by the RMA lab, the analyses do not appropriately describe contaminant concentrations.
- h (2) The data from various pond analyses is presented in a form inconsistent with previously-established pond numbers which leads to difficulty in comparison of data.
- j. The as-built plans and specifications for wastewater treatment facilities were previously reviewed in a letter to R.M. Brown from William Garland, December 23, 1982.

2. Regional Hydrogeology

- e. Potentiometric surface maps were not provided for bedrock aquifers.

3. Laramie River Hydrology

- a.(3) Proposed uses of the Laramie River were not compiled.
- b.(1) The channel cross-sections were designated in Phase I as the initiation of a hydraulic study of the flood characteristics of the Laramie River and floodplain. Continuation of this portion of the study includes the following:
 - a. Extension of cross-sections across the floodplain.
 - b. Addition of a sufficient number of cross-sections to accommodate changes in slope, channel geometry, roughness, and flow volume.
 - c. Measurements of velocity profiles at various stages.

4. Site Hydrogeology

In the Introduction, it is stated that the bedrock aquifer is recharged by water from the Laramie River and the alluvial groundwater in this general area, but direct recharge from the site has not been confirmed. This statement reflects a lack of knowledge about the site bedrock hydrology which is important in understanding contaminant migration and formulating remedial alternatives.

- a. (8) Groundwater flow rates and contaminant transport rates were not addressed.
- c. Lack of site-specific data on areal distributions of the contaminants in the groundwater and soils, and the lack of site-specific data on the soil types themselves, renders impossible a meaningful assessment of the potential for contaminant attenuation.

6. Contamination Assessment

- b. Mass balance around the ponds was not executed.
- c. The soil samples extracted and analyzed were not of a sufficient number to define the extent of contamination.
- e. (1) The Laramie River was sampled at a flow rate greater than the prescribed low flow due to a preceding storm event.
- e. (2) Consultation with fisheries experts indicates that these sediment samples should include only a very thin top layer where the organic contaminants accumulate.
- g. It was specifically requested at the time of sampling that dioxin samples be collected from the north end of the ox-bow and from the old ditches which had previously transported plant wastes. Due to the established presence of dioxins on-site, it is again recommended that the distribution of dioxins be determined by means of a thorough sampling program. Particular attention should be paid to the ox-bow since it is located in a probable route of contaminant migration.



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

December 23, 1982

Mr. R.M. Brown
Chief Engineer
Union Pacific Railroad
1416 Dodge Street
Omaha, NE 68179

RE: As-Built Construction Plans Submission,
Union Pacific Railroad Tie Treatment
Facility, Laramie, Wyoming
Department of Environmental Quality,
Water Quality Division
Reference No. 82-784

Dear Mr. Brown:

This letter will acknowledge receipt of the referenced as-built construction plans, and outlines the Water Quality Division engineering review comments concerning the submittal. In general, insufficient data and information have been submitted with which to complete a thorough evaluation of the wastewater treatment performance and lagoon system integrity. In particular, the following review comments identify the deficient items for which additional data/information will be required:

A. Wastewater Pond System

1. Plans and specifications did not carry the signature or seal of a professional engineer licensed in the State of Wyoming.
2. A mean annual lake evaporation rate of 38 inches per year has been provided. Is this rate for pure water or the industrial wastewater contained in the ponds? If this rate is for pure water, what is the rate for the industrial wastewater? If the given rate of 38 inches per year is for industrial wastewater, how was it determined?
3. What is the percolation rate of the native soils used in the construction of the ponds?
4. What soil compaction was specified and used for the original pond construction?

5. What months was wastewater from either the tie treating plant or railroad cars from the Dalles, OR, being discharged into the receiving pond?
6. Mass balance data is not complete enough to evaluate pond operation. U.P.R.R. should measure pond liquid level fluctuations with an accurate staff gauge over a sufficient period of time to document changes in wastewater levels in each pond. Precise wastewater flow measures should also be recorded. Exact wastewater evaporation rates should be determined during the same period.
7. What BOD/COD loading rate was used as a basis for the pond design?
8. What is the elevation of the overflow pipe from pond 1 to pond 2?
9. What is the dike slope of the ponds?
10. No provisions have been made for erosion control of the pond dikes.
11. The plans indicate no method of controlling operational depth of the ponds. The minimum operating depth should be sufficient to prevent growth of aquatic weeds and damage to the dikes, bottom, level control structures, etc. In no case should the pond depths be less than two feet, and maximum depth should not exceed six feet. Recommended devices to regulate water levels are valves, slide tubes, or dual slide gates. Regulators should be designed so that they can be preset to stop flows at any pond level.
12. A manhole or vented cleanout wye should have been installed prior to entrance of the influent line into the primary cell and should have been located as close to the dike as topography permits. It's invert should have been at least six inches above the maximum operating level of the pond and provide sufficient hydraulic head without surcharging the manhole. This manhole or cleanout wye was not provided at the entrance of the influent line to the receiving pond.
13. The influent line should have been located along the bottom of the pond so that the top of the pipe was just below the average elevation of the pond bottom. The influent line should have terminated at approximately the center of the receiving pond. It should have discharged horizontally into a shallow, saucer-shaped depression to prevent pond bottom erosion. The as-built plans do not comply with these standards.
14. Flow measurement has not been installed for this treatment system, as required by State standards.
15. Pond level gauges have not been provided.

B. Wastewater Line From Facility to Pond System

1. Provide design data for the six-inch steel wastewater line. Minimum size requirement of a gravity wastewater line is eight inches.

2. What is the slope of the existing six-inch line?
3. What alignment/leak detection tests were completed on the six-inch line? How were joints for the six-inch line put together? What performance standards were recommended and followed?
4. What is the depth of bury of the six-inch line? Provide a profile drawing.
5. Manholes should have been installed; (1) at the end of each line; (2) at all changes in grade, size, or alignment; (3) at all inter-sections; (4) and at distances not greater than 400 feet for wastewater lines 15 inches or less. The as-built plans do not comply with this standard.

C. Other Review Comments

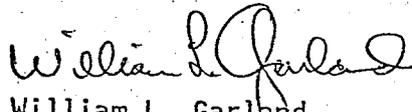
1. Provide a copy of your Spill Prevention, Control, and Countermeasures Plan for the above ground raw oil storage (12,000 gals.), vertical oil storage tanks (350,000 gals.), and the oil preheater tank (8,500 gals.).
 2. Have full containment dikes been constructed around these oil storage facilities to contain any discharge of oil. Are these tanks inspected periodically for leaking bottoms?
 3. What chemical compounds, if any, are used in the steam generator boiler (boiler blowdown) and the cooling water tower?
- D. Recommendations for Immediate Sampling are based upon; (1) the existence of significant concentrations of toxic wastes in the ponds, in the soil west of the ponds and in the oxbow; (2) the measured accumulations of toxic wastes in river sediments and apparent effects on aquatic organisms; (3) knowledge of the groundwater system. A concern exists for hazards to human health, thereby requiring the following sampling program:
1. Provide dioxin analytical results from samples collected in the oxbow.
 2. Provide dioxin and priority pollutant analytical results from groundwater and sediment samples collected in the low-lying areas north of the oxbow.
 3. Provide dioxin and organic analytical results of aquatic organisms taken in affected reaches of the Laramie River.

The foregoing list represents information which should have been included in your December 15, 1982 submittal of as-built plans and specifications. The Water Quality Division is willing to review the additional information specified above, and request that it be submitted not later than January 15, 1983.

However, based upon the data/information already provided, it is clear that the ponds are not properly constructed for their present use.

Based upon the data/information provided in the plans and specifications, i.e., direction of groundwater flow, non-existence of pond liners, physical characteristics of the construction materials, and the toxic characteristics of the wastewater, use of the existing wastewater containment/treatment system should be immediately discontinued. Further, the pond contents, including liquids, sludges, and leachates should be contained, removed, and disposed at an approved hazardous waste site.

Sincerely,


William L. Garland
Administrator

WLG/LCF/sk

cc: Jake Strohman, DEQ/WQD - Cheyenne
LeRoy Feusner, " "
A.J. Mancini, " "
Phil Pucel, " "
Marion Yoder, Assistant Wyoming Attorney General
Fred Marotte, CH2M Hill - Denver
Ed Sencabaugh, U.P.R.R. - Cheyenne
Steven Durham, Regional Administrator - U.S. EPA
Henry Bailey, Jr., P.O. Box 408, Cheyenne, WY
Don Mansfield, J.H. Baxter & Co. - Laramie
Alan Minier, P.O. Box 1083, Cheyenne, WY
Todd Welch, P.O. Box 408, Cheyenne, WY
Karl Morthole, U.P.R.R. - Ohama

3-3-83



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 2, 1983

Mr. David W. Hill, P.E.
Utility Engineer
Casper Board of Public Utilities
200 North David
Casper, WY 82601

RE: Sunrise I Water Storage Tank, Permit Number 82-785

Dear Mr. Hill:

When construction permit 82-785 was issued to the Casper Board of Public Utilities, a condition that: "The storage tank shall be pinned, bolted or otherwise restrained to prevent it from sliding in a 100 mile per hour wind while empty" was included.

Your consulting engineer, Buell Winter Mousel and Associates indicated that the tank would resist sliding with a 2:1 safety factor based on a steel to oiled sand friction factor assumed to be 0.5. My staff conducted a brief experiment using a steel block and oiled sand to estimate the friction factor (see photograph). A friction factor of 0.5 was obtained. Therefore, I am hereby deleting the above mentioned condition from your permit.

Sincerely,

William L. Garland
William L. Garland
Administrator

WLG/TDC/nc

cc: Buell Winter Mousel & Assoc., 123 W. 1st St., Suite C-70-37, Casper, WY 82601

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-785
SEE SPECIAL CONDITIONS

Sunrise I Water Tank
(Name of Facility)

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

Casper Board of Public Utilities

200 N. David Street

Casper, WY 82601

to construct, install, or modify a potable water storage tank facility according to the procedures and conditions of the application No. 82-785. The facility is located in Section 20, T33N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

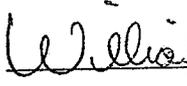
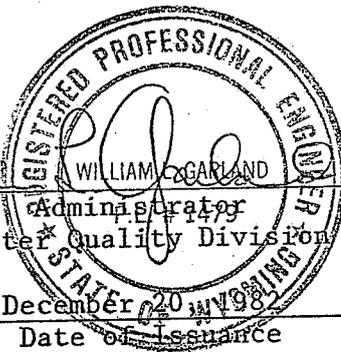
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

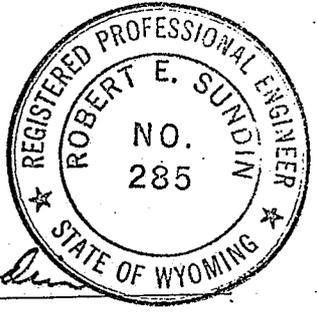
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 30, 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 C. GARLAND
Administrator
Water Quality Division
December 20, 1998
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: Dick J. Prosser
Buell, Winter, Mousel & Assoc.
123 West 1st, Suite C-70-37
Casper, WY 82601

Conditions to Permit to Construct

1. All paints and primers shall be approved by EPA for potable water facilities.
2. The storage tank shall be pinned, bolted or otherwise restrained to prevent it from sliding in a 100 mile per hour wind while empty.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone 332-3144.

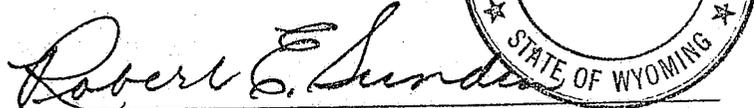
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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.

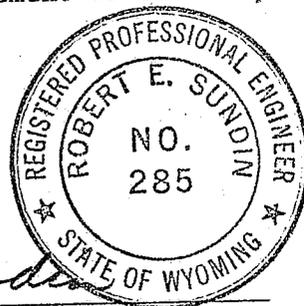
AUTHORIZED BY:



Adminisrator GARLAND
Water Quality Division
December 22, 1982
Date of Issuance



Director
Dept. of Environmental Quality



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

Condition of Permit

The permittee shall notify representatives of the Big Horn County Planning Department 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:

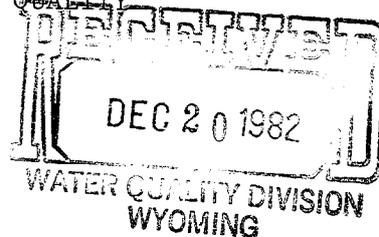
Karin Boutain
Big Horn County Planner
Regional Planning Office
P.O. Box 228
County Courthouse
Basin, WY 82410

FL:dp

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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



PROJECT: Airport Septic System

ENGINEER: Herbert J. Jennerich
P. O. Box 31
Basin, Wyoming 82410

OWNER: Herbert J. Jennerich
P. O. Box 31
Basin, Wyoming 82410

WATER QUALITY DIVISION REFERENCE NUMBER: 82-786

REVIEWING ENGINEER: Frank LaBarge *FL*

DATE OF REVIEW: December 17, 1982

ACTION: Not authorized

COMMENTS: A review of your application has been completed. Before a permit to construct can be authorized, the following points need to be resolved.

1. A cleanout detail is needed.
2. Please show the location of the water line on the Plan Sheet.
3. The following separation distances need to be indicated on the Plan Sheet:
 - Septic tank to water line
 - Septic tank to property lines
 - Leach field to water line
 - Leach field to property lines
4. Are there any wells within 50 feet of the septic tank or 100 feet of the leach field and are there any water ways within 50 feet of the septic tank and leach field? If not, a note to this effect should be placed on the Plan Sheet. If there are, the facilities will have to be relocated to meet these minimum separation distances which need to be shown.
5. Is the septic tank inlet and outlet piping to be schedule 40 PVC or cast iron? This needs to be indicated on the Check List Sheet under Design Information, #8.

Review of Plans and Specifications
Airport Septic System #82-786
December 17, 1982
Page Two

6. Verification is needed that the proposed leach field is not in a driveway or parking area.

Please submit the required information and revised plans, in triplicate, to this office. If you have any question, please call me.

FL:dcn



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 17, 1982

Mr. Don Dunham, Engineering Supervisor
City of Lander
183 South 4th Street
Lander, WY 82520

Re: Revised City of Lander Standards and Specifications, DEQ Ref. No. 82-787

Dear Mr. Dunham,

A review of the revisions to the City of Lander Standards and Specifications for water and sewer line construction has been completed. We have found that these revisions meet minimum State standards for water and sewer line construction. Any further additions or deletions to these construction standard specifications will require review by this Division to ensure continued compliance with State standards.

Applications for construction permits submitted to this Division need only to refer to the above specifications on the plan sheet.

Yours truly,

A handwritten signature in cursive script that reads "Francis LaBarge".

Francis LaBarge
Northwest District Supervisor

FL:dp

MEMORANDUM

TO PLANS: Lander Valley Regional Medical Center #82-788R
FROM: Francis LaBarge *FL*
DATE: February 2, 1983
SUBJECT: Plan Review

On this date, Dick Bezzant representing Safecare Co. hand delivered their reply to my December 17, 1982 review letter. The cover letter for the plans he delivered was received on January 28, 1983.

While Mr. Bezzant was here I reviewed the plans and determined the following information was still needed:

1. A fire loop profile;
2. Distances between manholes;
3. Sewer line slopes;
4. An air-vac valve specification; and,
5. One additional set of "as built" plans.

Mr. Bezzant agreed to supply this information and plans to me by February 8, 1983. No written review letter was sent.

FL:dcn



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 15, 1983

Mr. Dean Behse, Project Coordinator
Safecare Co., Inc.
P. O. Box 21485
Seattle, WA 98111

RE: "As Built" Plans of Sewage Collection
System, Domestic Water Service Main and
Fire Protection Loop Serving Lander
Valley Regional Medical Center
DEQ Ref. No. 82-788RR

Dear Mr. Behse:

A review of the above referenced "as built" plans has been completed. The plans provided are minimal at best, but as a result of conversations with Don Dunham, Engineering Supervisor for the City of Lander, it appears the systems meet minimum standards as defined by this State.

You should retain this letter as proof of acceptance of the systems by this department. This office considers the matter closed.

Yours truly,

A handwritten signature in cursive script that reads "Francis LaBarge".

Francis LaBarge
Northwest District Supervisor

FL:dcn

cc: Don Dunham, City of Lander
Plans #82-788RR

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION
210 LINCOLN
LANDER, WYOMING 82520

PHONE: (307) 332-3144

CERTIFIED MAIL

PROJECT: Lander Valley Regional Medical Center

ENGINEER: Mateen Ansari, P.E.
Western-Allied Corporation
P. O. Box 3566
Santa Fe Springs, CA 90670

OWNER: Dean Behse, Project Coordinator
Safecare Co., Inc.
P.O. Box 21485
Seattle, WA 98111

WATER QUALITY DIVISION REFERENCE NUMBER: 82-788

REVIEWING ENGINEER: Francis LaBarge, P.E. *FL*

DATE OF REVIEW: December 17, 1982

ACTION: Not authorized.

COMMENTS:

A review of your December 16, 1982 reply in response to my November 9, 1982 letter has been completed. Your submittal was lacking in several areas but in conversations with Don Dunham, Engineering Supervisor for the City of Lander, and Bill Locke of Arix Engineers, I have been able to obtain much of the missing information.

Mr. Dunham has informed me that the water and sewer lines were installed according to the City of Lander Standards and Specifications, that the City inspected the construction as it proceeded and is satisfied that all work has been completed in compliance with those standards. The Department of Environmental Quality has previously authorized the City Standards and Specifications; therefore, to meet our requirements for this portion of the application, you merely need to place a note on the plans stating "All work was done in conformance with the City of Lander Standards and Specifications."

AC

In regard to the sewage collection system, I have determined that the sewer line profiles need to show the distance between each manhole and the slope of each section of line, a cleanout detail, and a detail of the two service lines are needed. Mr. Dunham said the sewer pipe installed met ASTM D 3034 SDR 35 specifications. Please place a note on the plans stating this and that will satisfy our requirement for the sewer pipe specifications.

In regard to the domestic water service line, if the engineer will certify that this line was installed on a uniform grade (i.e. there are no high or low spots) and to the depth of cover a profile of this line will not be required. If he can't do this, then a profile will be required. The Plan Sheet needs to be revised to show the actual location of this line. Apparently it follows the new road for a short way up the hill to the hospital. It is not shown as such on the plans I received. I also need to know what the maximum hydrostatic pressure this line will be subjected to so I can verify that the proper class of water pipe was used.

Mr. Dunham said he thinks the water pipe used was AWWA C-900 Class 150. Please confirm this and place a note on the plans stating such and that will satisfy our requirement for the water pipe specifications.

In regard to the fire loop Bill Locke stated that this line will be protected from over pressurization by the installation of pressure relief valves at the pump house but I still need to know the basis upon which the water pipe class was selected. In addition, a profile of the entire loop starting at the pump house (be sure to show the location of the air relief valve on the profile as well as the sewer line crossings; the profile should show the final ground elevations after contouring and grading is completed), and specifications for the air relief valve are required.

Please remember these are supposed to be "as built" plans and should therefore show the three lines as they have been constructed. A complete reply to this letter is required by the 1st of February, 1983. Upon receipt of this additional information, you will be informed as to whether we can accept the systems as they are constructed or if we will require any modifications. If you have any questions, please call me for a clarification. Be sure the revised plans are signed or stamped by the engineer and his Wyoming Registration Number is shown.

cc: Don Dunham, Engineering Supervisor, City of Lander

PERMIT TO CONSTRUCT

New

Permit No. 82-789

Renewal

Modified

Sanitary Sewer - Blocks 2, 3, and 4, Westside Addition, Town of Saratoga
(Name of Facility)

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

John McNellis

P.O. Box 127

Saratoga, WY 82331

to construct, install, or modify a municipal wastewater collection system facility according to the procedures and conditions of the application No. 82-789. The facility is located in Section 11, T17N, R84W, Blocks 2, 3, & 4, Westside Addition 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: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

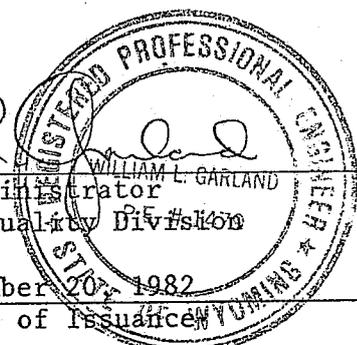
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

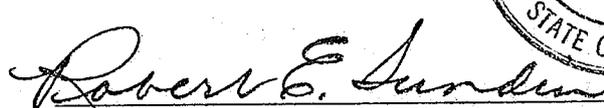
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

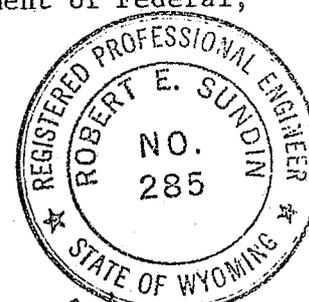


WILLIAM L. GARLAND
Administrator
Water Quality Division
December 20, 1982
Date of Issuance





ROBERT E. SUNDIN
Director
Dept. of Environmental Quality



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

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

PERMIT TO CONSTRUCT

New (CORRECTED)

Permit No. 82-790
CORRECTED

Renewal

Modified

Fort Fetterman
(Name of Facility)

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

WY Recreation Commission

1920 Thomes

Cheyenne, WY 82002

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 82-790. The facility is located in Section 10, T33N, R72W 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: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 2161 Coffeen Avenue, Suite 301, Sheridan, Wyoming 82801; telephone, 672-6457.

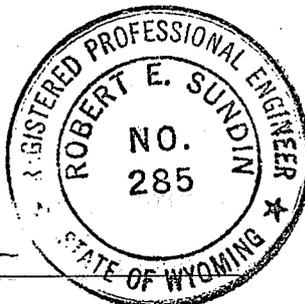
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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:

A circular seal for a Registered Professional Engineer in the State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the top edge and "STATE OF WYOMING" around the bottom edge. In the center, the name "WILLIAM J. OVERLAND" is written in a cursive script. Below the name, it says "Administrator" and "Water Quality Division". The seal number "P.E. # 1479" is also visible.

Administrator
Water Quality Division
December 23, 1982
Date of Issuance

A circular seal for a Registered Professional Engineer in the State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the top edge and "STATE OF WYOMING" around the bottom edge. In the center, the name "ROBERT E. SUNDIN" is written in a cursive script. Below the name, it says "NO. 285".

Director
Dept. of Environmental Quality

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

cc: Rick Johnston
Gust & Johnston
520 Randall
Cheyenne, WY 82001

PERMIT TO CONSTRUCT

OLD

Permit No. 82-790

- New
- Renewal
- Modified

Fort Fetterman
(Name of Facility)

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

State of Wyoming

Dept. of Recreation

604 East 25th

Cheyenne, WY 82002

to construct, install, or modify a subsurface sewage disposal facility according to the procedures and conditions of the application No. 82-790. The facility is located in Section 10, T33N, R72W 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.

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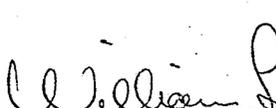
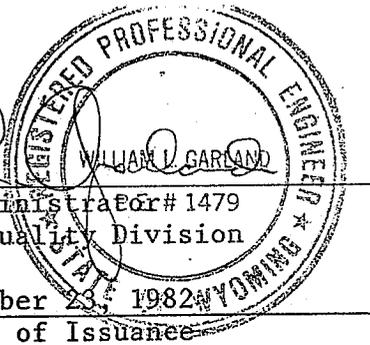
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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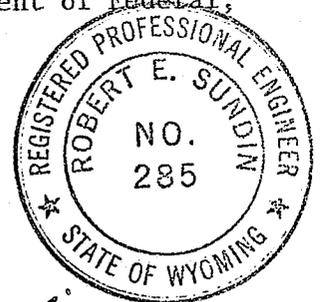
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AUTHORIZED BY:



Administrator # 1479
Water Quality Division
December 23, 1982
Date of Issuance


Director
Dept. of Environmental Quality



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

cc: Rick Johnston
Gust and Johnston
520 Randall
Cheyenne, WY 82002

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

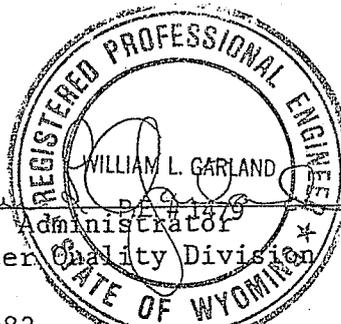
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

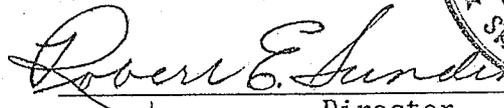
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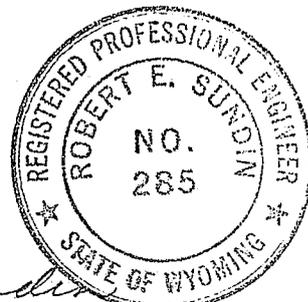
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
STATE OF WYOMING




Director
Dept. of Environmental Quality



March 31, 1983

Date of Issuance

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

* CONDITIONS OF PERMIT *

1. The permittee shall notify representatives of the Teton County Planning Department 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 Chalfant, Teton County Sanitarian, P. O. Box 1727, Jackson, Wyoming 83001 (733-3959).
2. Cast iron or schedule 40 PVC pipe must be used as inlet/outlet material on the septic tank (5' both sides).

AJB:dcn

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Wm. Currie Const. Co., Inc.

ENGINEER: Peter Jorgensen Eng.
265 E. Simpson
Jackson, WY 83001

OWNER: Wm. Currie Const. Co., Inc.
P. O. Box 3586
Jackson, WY 83001

WATER QUALITY DIVISION REFERENCE NUMBER: 82-791

REVIEWING ENGINEER: Albert J. Berreth *ajb*

DATE OF REVIEW: December 28, 1982

ACTION: Not authorized.

COMMENTS:

The construction permit application, as submitted, is incomplete and final review with subsequent authorization cannot be made until the following items have been addressed:

1. A plan view showing building with septic tank and drainfield needs to be provided. Also, water source or lines need to be shown. All separation distances should be shown.
2. Depth of ground water is needed.
3. An estimate with rationale of the daily sewage quantity is needed.
4. Your engineer needs to sign the drawings.
5. Three copies of the plans are needed.

AJB:dcn

cc: Cheyenne DEQ/WQD
File (5)



Department of Environmental Quality

Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 10, 1983

Mr. Roy Holm
Holm, Blough and Company
P. O. Box 1748
Cody, WY 82414

RE: Shoshone Guest Ranch Lodge Septic
System, DEQ Ref. No. 82-792

Dear Mr. Holm:

As per your written request of February 8, 1983, the above referenced application has been withdrawn from our files. One copy of the application package is being retained for our records. The remaining two copies are being returned to you with this letter.

Yours truly,

A handwritten signature in cursive script that reads "Francis LaBarge".

Francis LaBarge
Northwest District Supervisor

FL:dcn

Enclosure

cc: The Lamb and Associates
Tony Mancini - Groundwater Section, Cheyenne DEQ/WQD
Plans #82-792

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Shoshone Guest Ranch Lodge Septic System

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

OWNER: The Lamb and Associates
2202 Southfork Road
Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: #82-792

REVIEWING ENGINEER: Frank LaBarge^{FL}--District Office; Mic Brenoel--Groundwater Section,
Cheyenne

DATE OF REVIEW: January 5, 1982³

ACTION: Not authorized.

COMMENTS: A review of your application has been completed. The Groundwater Section has requested the following additional information be submitted so they can complete their review:

1. What is the quality of the groundwater? This information is needed so the groundwater can be classified.
2. Please provide an inventory of all wells within $\frac{1}{2}$ mile of the proposed facility and show where they are, what the static water level is in each and what the water is used for.
3. To the best of your knowledge, what is the direction of groundwater movement?

The District Office is requesting that:

4. A diversion ditch to divert surface water around the leach field be installed at least 15 feet from the perimeter of the drainfield. This diversion ditch should be ~~shown on the drawings in a plan and cross-sectional view.~~
5. A condition of the permit will be that under no circumstances is the leach field area to be flood irrigated and that the diversion ditch must be constructed to divert all surface water away from the leach field. Please acknowledge that you agree to this condition.
6. A fence is required around the absorption area. The diversion ditch should be outside of the fence.

ABC

ew of Plans and Specifications
Shoshone Guest Ranch Lodge Septic System #82-792
Page Two

Please refer any questions you may have regarding items 1 through 3 to Mic Brenoel at 777-7085. Any questions concerning items 4 through 6 should be directed to Frank LaBarge at 332-3144. Please submit your revised application in triplicate to the District Office in Lander.

FL:dcn

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 82-792

Date Submitted For Review 28 dec 82

Name and Location of Facility Shoshone Guest Ranch Lodge
sec 4 T50 R104 SW/4 NW/4
Park Co.
Septic System

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.

There is no groundwater information to review in this submittal. There is no grease trap for restaurant; system appears to be undersized.

Signed Michael R. Brenoel

Title Groundwater Compliance Specialist

Date _____

Approved 1/4/83
(Date)

ajm
(Signed)
Groundwater Control Supervisor

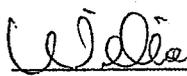
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

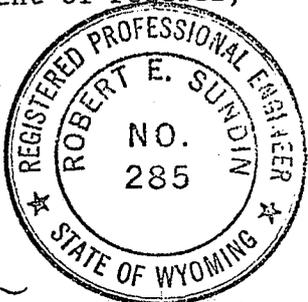
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
STATE OF WYOMING


Director
Dept. of Environmental Quality



January 14, 1983
Date of Issuance

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

AJB:dcn

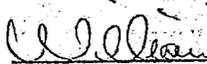
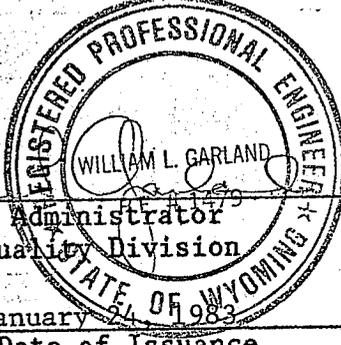
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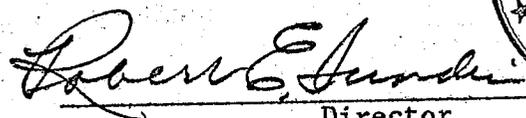
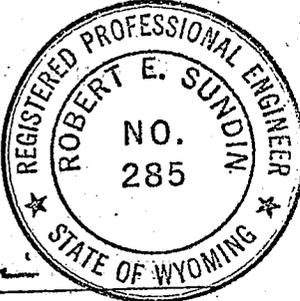
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AUTHORIZED BY:



Administrator
Water Quality Division
January 14, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

xc: Doyl Fritz
Western Water Consultants
P.O. Box 3042
Sheridan, WY 82801

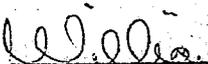
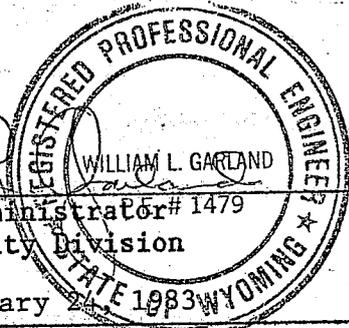
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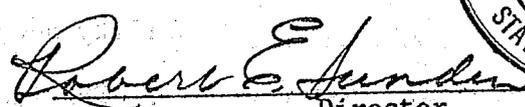
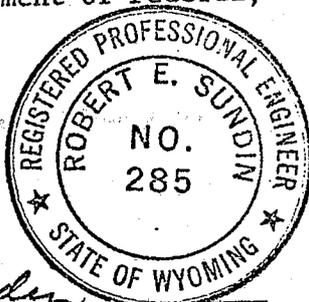
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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
January 24, 1983
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: Doyl Fritz
Western Water Consultants
P.O. Box 3042
Sheridan, WY 82801

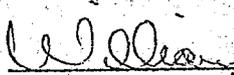
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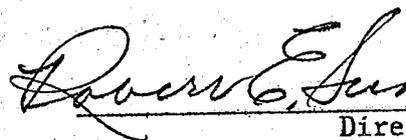
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AUTHORIZED BY:


WILLIAM L. GARFAND
REGISTERED PROFESSIONAL ENGINEER
No. 1479
Administrator
Water Quality Division
STATE OF WYOMING
January, 1983
Date of Issuance


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

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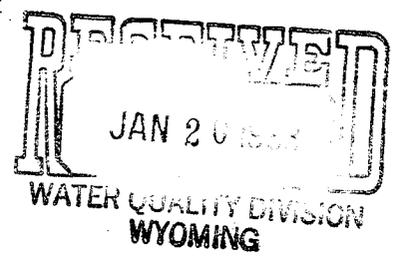
xc: Doyl Fritz
Western Water Consultants
P.O. Box 3042
Sheridan, WY 82801

NORMA

REVIEW OF PLANS AND SPECIFICATIONS

-1-10
Page 3

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
2161 Coffeen Ave., Suite 301
Sheridan, Wyoming 82801



PROJECT: Jacobs Ranch Mine
JRM Reservoirs 16-1, 10-1, and 15-3.

ARCHITECT OR ENGINEER: Doyl Fritz
Western Water Consultants
Box 3042
Sheridan, Wyoming 82801

WATER QUALITY DIVISION
REFERENCE NUMBERS: 82-794, 82-795, and 82-796

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: January 19, 1983

ACTION: Not Authorized

COMMENTS:

- 1.) The drainage ditches to be built in association with the reservoirs should be included in the descriptions on the application sheets. We should also have a plan drawing of the ditches so we know just where they will be located.
- 2.) Enclosed is a copy of a page from Jacob's Ranch NPDES discharge permit. As it reads, the permittee has the option of sizing a settling pond to completely contain a 10 year, 24 hour storm or not. If the pond is not sized to contain the storm, then it must be identified as a discharge point and the discharge must meet its permit requirements regardless of what size storm occurs. If the pond can contain a 10 year storm, then the discharge need not meet permit requirements for storms equal to or greater than 10 years. For storms less than 10 years, the discharge must meet its permit requirements and must be monitored for this purpose.

For the ponds in your application to have sufficient capacity for a 10 year, 24 hour storm, the water must be kept pumped down to appropriately low levels below the discharge culverts. Alternatively, the culverts could have slide gates and adequate storage could be provided above the culverts.

- 3.) Has a discharge permit been obtained for the section 15 pond? If not, has one been applied for? The permit number should be included on the application sheet.

Water Quality Division
Groundwater Section
Permit Application Review

Norma
Returned
4 Jan 83
Rich

Application Number 82-794, 795, 796

Date Submitted For Review 3 JAN 83

Name and Location of Facility JRM 16-1, 10-1, 15-3 Reservoirs
JACOBS Ranch Mine
Sec 16 T 43, R 70 Campbell Co.
% Kenn-McBee Coal Corp.
Callen Box 3013
Gillette WY 82716

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.
(WQD Chapter 7 checked also)
- Comments attached.

Signed Richard J. Lunn
Title Eng. Eval
Date 4 Jan 83

Approved 1/4/82
(Date)

QJM
(Signed)
Groundwater Control Supervisor

1-21-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-797R

DADO ENTERPRISES SEWER EXTENSION
(Name of Facility)

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

Dado Enterprises
8200 East Pacific Place
Denver, CO 80231

to construct, install, or modify a sanitary sewer main and sewer service line

facility according to the procedures and conditions of the application No. 82-797R. The facility is located in

Lot 68, T52N, R102W (Resurvey)

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.

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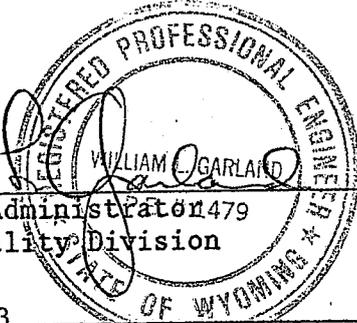
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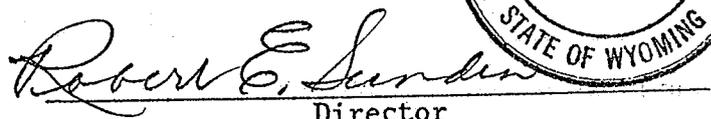
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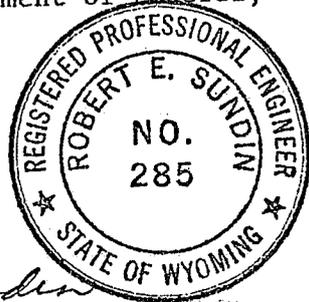
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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator 479
Water Quality Division




ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


January 10, 1983

Date of Issuance

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

PERMIT TO CONSTRUCT

Permit No. 82-798

- New
- Renewal
- Modified

EVANSTON CENTER WATER AND SEWER EXTENSIONS

(Name of Facility)

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

Overthrust Associates
c/o Wright - Leisure Dev. Co.
Attn: Gary Hoffurth
Idaho First Plaza, Suite 1701
Boise, Idaho 83702

to construct, install, or modify a water line extension and sewer line extension

facility according to the procedures and conditions of the application No. 82-798. The facility is located in

Sec. 21, T15N, R120W

in the County of Uinta,

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

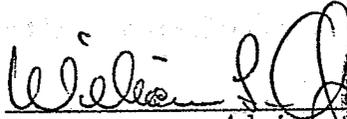
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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 this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 210 Lincoln, Lander, Wyoming 82520; telephone 332-3144.

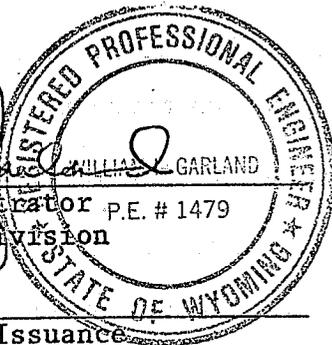
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

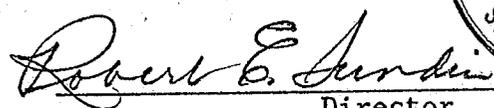
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

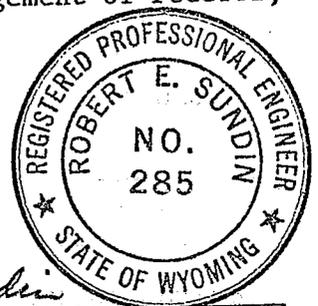


Administrator P.E. # 1479
Water Quality Division





Director
Dept. of Environmental Quality



January 24, 1983

Date of Issuance

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

JB:dcn

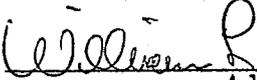
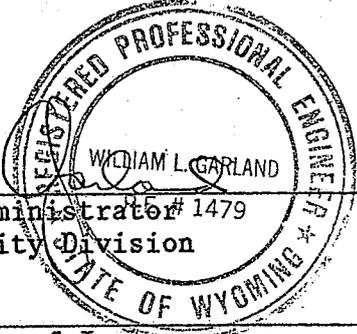
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

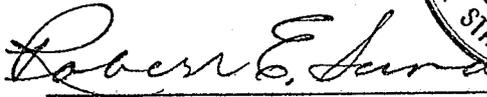
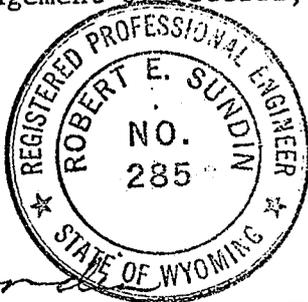
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of this project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, 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
 January 18, 1983
 Date of Issuance



 Director
 Dept. of Environmental Quality

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

AJB:dcn

0-14-83

PERMIT TO CONSTRUCT

Permit No. 82-800

New
 Renewal
 Modified

ROCK SPRINGS - MAIN EXTENSION TO LA QUINTA INN
(Name of Facility)

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

Pacific Power & Light Co.
920 S. W. Sixth Ave.
Portland, Oregon 97204

to construct, install, or modify a _____
approximately 990 feet of 8 inch water main and appurtenances

_____ facility according to the procedures and conditions of the
application No. 82-800. The facility is located in _____

Sec. 33, T19N, R105W

_____ 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 Per-
mittee understands that it is solely responsible to any third parties for any liabil-
ity arising from the construction or operation of the facility described herein. By
the issuance of this permit, the State does not in any way waive its sovereign
immunity.

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

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

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

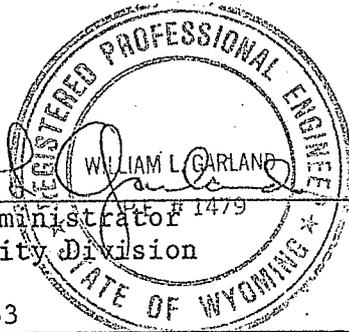
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



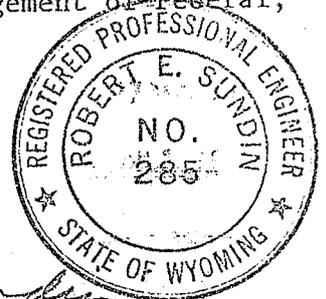
Administrator # 1479
Water Quality Division
January 26, 1983

Date of Issuance





Director
Dept. of Environmental Quality



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

JB:dcn

PERMIT TO CONSTRUCT

Permit No. 82-801R

- New
- Renewal
- Modified

Warren Safety Services Building Small Wastewater Facility
(Name of Facility)

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

Tilley Investment-Evanston
P. O. Box 3286
Houston, TX 77253

to construct, install, or modify a septic tank - sidehill leachfield system
to serve an office building - warehouse.

_____ facility according to the procedures and conditions of the
application No. 82-801R. The facility is located in _____
Sec. 31, T16N, R120W (Evanston)

_____ 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-

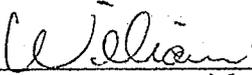
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

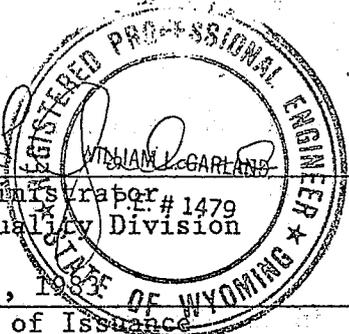
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM J. GARLAND
Administrator # 1479
Water Quality Division
July 27, 1968
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.

1-21-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 82-802
SEE SPECIAL CONDITION

BIG HORN HIGH SCHOOL SEWAGE SYSTEM
(Name of Facility)

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

Sheridan County School District #1 West

Ranchester, WY 82839

to construct, install, or modify a aerated septic unit and leach field facility according to the procedures and conditions of the application No. 82-802. The facility is located in Section 5, T54N, R84W in the County of Sheridan, 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.

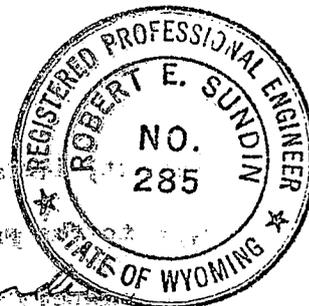
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

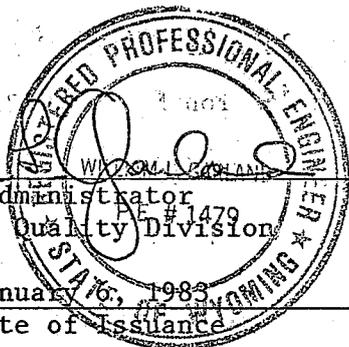
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Robert E. Sundin

Director
Dept. of Environmental Quality



William J. [Name]

Administrator
Water Quality Division

January 6, 1983
Date of Issuance

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

Condition to Permit to Construct

The permittee shall notify representatives of the 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:

Joseph T. Hollingsworth
Sheridan County Engineer
P.O. Box 612
Sheridan, WY 82801

cc: Ken Schmidt
Design 3 Sheridan
50 E. Loucks, Suite 104
Sheridan, WY 82801

PERMIT TO CONSTRUCT

Permit No. 82-803
Conditional

- New
- Renewal
- Modified

Outlaw Bowl II Stadium
(Name of Facility)

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

Carbon County School District No. 1

3rd and Buffalo Street

Rawlins, WY 82301

to construct, install, or modify a sanitary sewer and potable water service facility according to the procedures and conditions of the application No. 82-803. The facility is located in Section 9, T21N, R87W 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.

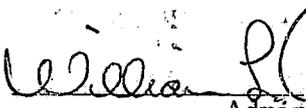
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

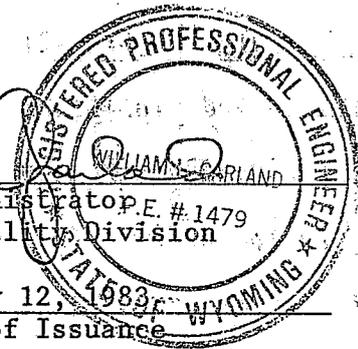
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

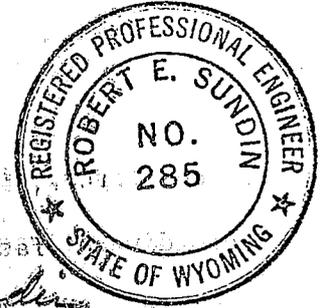
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


Administrator P.E. # 1479
Water Quality Division
January 12, 1983
Date of Issuance




Director
Dept. of Environmental Quality



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

cc: Edward Nowak
P. O. Box 550
Laramie, WY 82070

The ASTM D3033 pipe specified shall not be used for the sanitary sewer.

PERMIT TO CONSTRUCT

Permit No. 82-804R

New

Renewal

Modified

Mountain Village Number 2
(Name of Facility)

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

Casper Board of Public Utilities

200 North David St.

Casper, WY 82601

to construct, install, or modify public water supply distribution and wastewater collection facilities according to the procedures and conditions of the application No. 82-804R. The facility is located in Section 28, T33N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

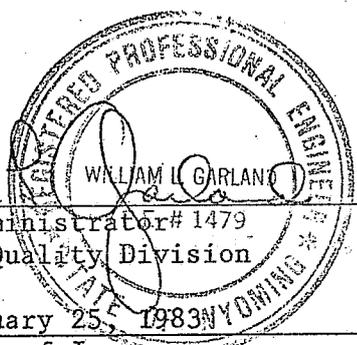
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction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

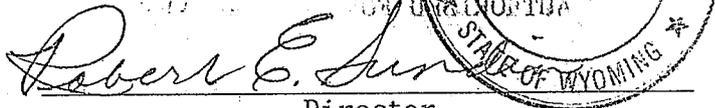
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

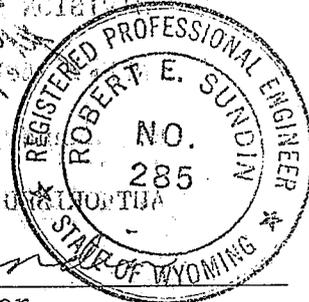
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
February 25, 1983
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: Thomas P. McDill
The Engineers
6405 Indian Scout Dr.
Casper, WY 82601

1-14-83

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

1111 East Lincolnway

Cheyenne, Wyoming 82002

PROJECT: Mountain Village No. 2

ARCHITECT OR ENGINEER: Tom McDill, The Engineers
6405 Indian Scout Drive, Casper, WY 82601

APPLICANT: Casper BPU, 200 N. David St.
Casper, WY 82607

WATER QUALITY DIVISION REFERENCE NUMBER: 82-804

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

DATE OF REVIEW: January 7, 1983

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

The plans must carry the signature or seal of a professional engineer licensed in the State of Wyoming.

CONFIDENTIAL - SECURITY INFORMATION

1. The following information is being furnished to you for your information only. It is not to be disseminated outside your organization.

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3. This information is being furnished to you for your information only. It is not to be disseminated outside your organization.

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