



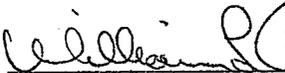
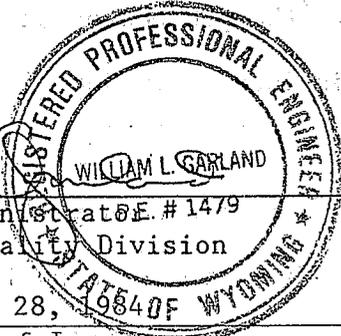
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

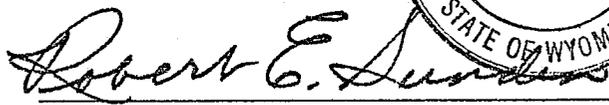
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
  
WILLIAM L. GARLAND  
Administrator # 1479  
Water Quality Division  
June 28, 1984  
Date of Issuance

  
  
Director  
Dept. of Environmental Quality

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

xc: Jim Kandolin

PERMIT TO CONSTRUCT

7-3-84

New

Permit No. 84-252

Renewal

Modified

DAVE JOHNSTON SEDIMENT CONTROL POND SP-36

(Name of Facility)

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

Glenrock Coal Company

P.O. Box 4000

Sheridan, Wyoming 82801

to construct, install, or modify a sediment control pond

facility according to the procedures and conditions of the application No. 84-252. The facility is located in Sec. 13, T.35N., R.75W.

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

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

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

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

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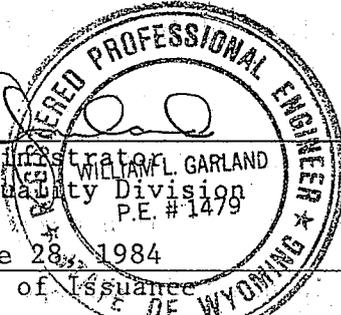
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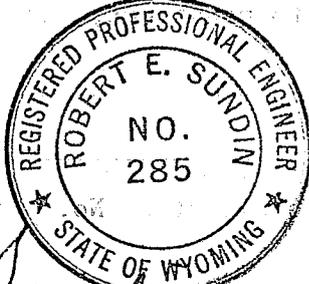
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AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division  
P.E. #1479  
June 28, 1984  
Date of Issuance  


  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality  


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

xc: Jim Kandolin



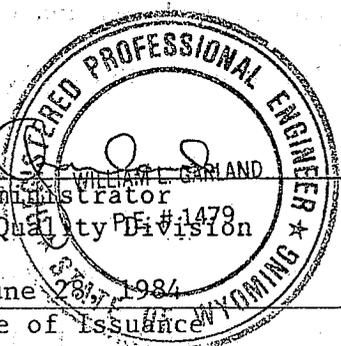
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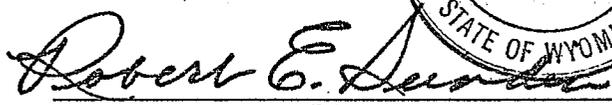
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AUTHORIZED BY:

  
\_\_\_\_\_  
WILLIAM L. GARLAND  
Administrator  
Water Quality Division #1479  
June 28, 1984  
Date of Issuance  


  
\_\_\_\_\_  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  


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xc: Jim Kandolin



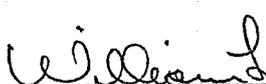
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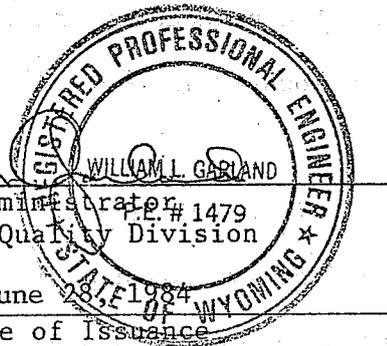
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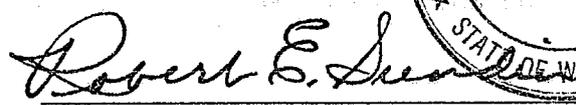
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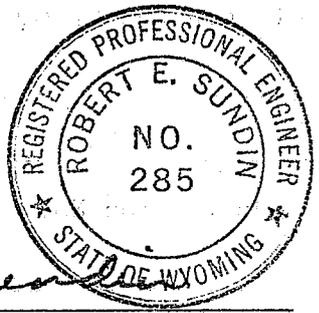
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AUTHORIZED BY:

  
\_\_\_\_\_  
WILLIAM J. GARLAND  
Administrator  
Water Quality Division  
June 1984  
Date of Issuance



  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality



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

xc: Jim Kandolin

PERMIT TO CONSTRUCT

7-3-84

New

Permit No. 84-255

Renewal

Modified

DAVE JOHNSTON SEDIMENT CONTROL POND SP-39

(Name of Facility)

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

Glenrock Coal Company

P.O. Box 4000

Sheridan, Wyoming 82801

to construct, install, or modify a sediment control pond

facility according to the procedures and conditions of the application No. 84-255. The facility is located in Sec. 24, T.35N., R.75W.

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

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

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

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

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

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

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

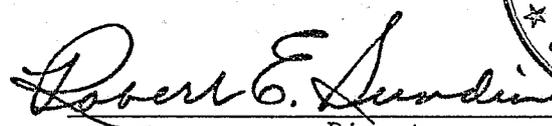
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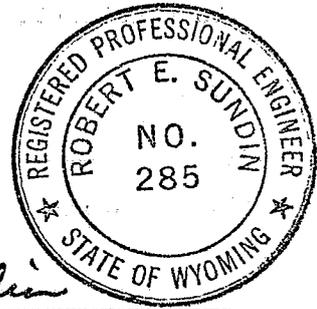
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AUTHORIZED BY:

  
\_\_\_\_\_  
WILLIAM L. GARLAND  
Administrator  
Water Quality Division  
June 28, 1984  
Date of Issuance



  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality



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

xc: Jim Kandolin

Water Quality Division  
Groundwater Section  
Permit Application Review

*Norma  
Ret. Stender*

Application Number 84-251 → 255

Date Submitted For Review 6/8/84

Name and Location of Facility GLENROCK COAL CO  
SEDIMENT POND SP-35 7 251  
S 14 T 35N R 75W  
CONVERSE 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.

*POND SP36 } 252  
S 13 T 35N R 75W }  
POND SP 37 }  
S 24 T 35N R 75W } 253  
POND SP 38 }  
S 24 T 35N R 75W } 254  
POND SP 39 }  
S 24 T 35N R 75W } 255*

Signed *Richard Leamy*  
Title *Eng. Eval*  
Date 6/21/84

Approved 6/21/84  
(Date)

*ajm*  
(Signed)  
Groundwater Control Supervisor

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-256R  
EPA Grant C560166

Saratoga Wastewater Improvement Project  
(Name of Facility)

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

Town of Saratoga

P.O. Box 486

Saratoga, WY 82331

to construct, install, or modify a wastewater treatment system, sanitary sewers and potable water main facility according to the procedures and conditions of the application No. 84-256. The facility is located in Sections 1, 12 & 13, T17N, R84W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

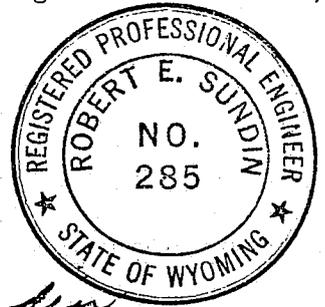
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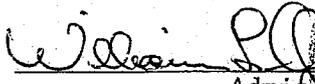
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: Water Quality Construction Projects Control Officer, State of Wyoming, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 West 25th, Cheyenne, Wyoming 82002; telephone, 672-6457.

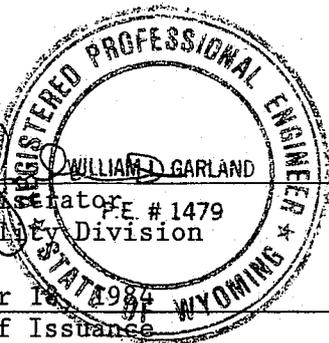
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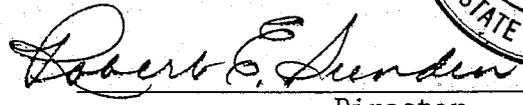
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AUTHORIZED BY:



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

A circular seal for a Registered Professional Engineer. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "WILLIAM D. GARLAND" and the number "P.E. # 1479".

  
Robert E. Sundin  
Director  
Dept. of Environmental Quality

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

cc: William H. Locke, ARIX, 609 East Madison, Riverton, WY 82501  
A.J. Mancini, DEQ/WQD



MIKE SULLIVAN  
GOVERNOR

## Department of Environmental Quality

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

Administration  
(307) 777-7937

Air Quality Division  
(307) 777-7391

Land Quality Division  
(307) 777-7756  
FAX (307) 634-0799

Solid Waste Management Program  
(307) 777-7752

Water Quality Division  
(307) 777-7781  
FAX (307) 777-5973

September 7, 1993

Wastewater Treatment Plant  
Town of Saratoga  
P.O. Box 486  
Saratoga, WY 82331

RE: **Groundwater Quality Monitoring, DEQ/WQD REF. NO. 84-256R**

Dear Sirs:

The Department of Environmental Quality, Water Quality Division, (DEQ/WQD), has recently reviewed the most recent groundwater quality sampling data from the City of Saratoga, wastewater treatment plant. Comments and recommendations are summarized on the enclosed Groundwater Pollution Control (GPC) Program review form. Thank you for your cooperation. If you have any questions regarding this review, please contact me at (307) 777-7781.

Sincerely,

*Phillip Stump*  
Phillip Stump  
Senior Analyst, GPC Program  
Water Quality Division

PS/bb/34123.1tr

enclosures: Groundwater Section Review Form  
Operation & Maintenance Manual, Section III-4

cc: File: 1993 GPC Review Forms  
Kevin Frederick, Supervisor, GPC Program, WQD

GROUNDWATER SECTION REVIEW OF  
GROUNDWATER QUALITY MONITORING

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION

Herschler Bldg., 4 West  
Cheyenne, Wyoming 82002

**PROJECT:** Groundwater Quality Monitoring, Wastewater Treatment Plant

**APPLICANT:** Town of Saratoga

**WATER QUALITY DIVISION REFERENCE (PERMIT) NUMBER:** 84-256R

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

**TITLE:** Quarterly Groundwater Quality Monitoring

**PROPOSAL**                       **PLANS**                       **SAMPLING DATA**

**DATE OF COLLECTION, SAMPLING DATA:** June 24, 1993

**IS THIS GROUNDWATER QUALITY MONITORING BEING SUBMITTED PURSUANT TO 'CONDITIONS' TO ANY WQD PERMIT?**

**NO**                       **YES**                       **Permit No. 84-256R**

**REVIEWER, GROUNDWATER SECTION:** Phillip Stump

**DATE OF LAST REVIEW:**

**DATE OF THIS REVIEW:** September 7, 1993

**COMMENTS: GROUNDWATER SECTION**

**I. SUMMARY OF EXISTING CONTAMINATION**

Ammonia-nitrogen levels measured in monitoring Wells #1 and #2 have consistently exceeded the maximum contaminant level allowable for Class 1 groundwater (0.5 mg/l), pursuant to Chapter VIII, Section 4(d) of Water Quality Division Rules and Regulations. Due to seasonal fluctuations of the water table, DEQ/WQD is concerned with the potential for contaminated groundwater to impact properties adjacent to the wastewater treatment plant.

## II. REQUESTS/RECOMMENDATIONS:

To help characterize the potential for groundwater contamination, within 45 days of receipt of this letter, please submit to DEQ/WQD the following:

1. A map identifying the property boundaries of the wastewater treatment plant and the locations of all monitoring wells.
2. A map identifying the approximate location of all existing groundwater supply wells in Section 1, T17N, R84W, and all wells lying east of the river in Section 2, T17N, R84W. Please include the current use (e.g. domestic, stock, monitoring well, etc.) for each well. On the well location map, please locate and label the well numbers (1,2,3 and 4) corresponding to the monitoring wells surrounding the treatment plant. Also, please obtain the above information for the three wells installed about 1000-2000 feet north of the facility in 1986.
3. DEQ/WQD requests that groundwater quality sampling be done in accordance to the Operation & Maintenance (O/M) Manual(see enclosed copy of Section III-4), which requires the measurement of static water levels during the sampling events. The static water levels are not being submitted with the analytical results from the sampling events. Please submit the levels from past events, if they are available. In subsequent sampling events, static water levels must be measured and submitted with the analytical results.

As stated in the O/M Manual, p. III-5; the groundwater samples must be taken and submitted on a quarterly basis and analyzed for the following parameters: static water levels, TDS, pH, specific conductance, temperature, chloride, ammonia as N, and nitrate + nitrite as N. Please submit the analytical results to the attention of the S.E. District Supervisor, Groundwater Pollution Control program. After one full year of quarterly monitoring events, the monitoring schedule may be adjusted by DEQ/WQD.

PS/bb/34124.ltr

cc: File: 1993 GPC Review Forms  
Kevin Frederick, Supervisor, GPC Program, WQD

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 84-256 R

DATE SUBMITTED FOR REVIEW 4-29-85

NAME AND LOCATION OF FACILITY Saratoga Wastewater Treatment  
Plant — Draft O+M Manual  
Carbon 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 Phil Pucel  
 TITLE Eng  
 DATE 5-2-85

ACCEPTED FOR RECORD 5/2/85  
 (Date)

ajm  
 Groundwater Control Supervisor

MEMORANDUM

TO: File

FROM: Phil Pucel *phil*

DATE: May 2, 1985

SUBJECT: Draft O & M Manual for the Saratoga Wastewater Treatment Plant  
#84-256R

A review of the following sections of this manual was requested by Jim Murphy of the CMAG section (the table of contents contains incorrect page listings for the tables and figures):

- #8 on page III-3
- #9 on page III-3
- Table III-1
- Table III-3
- Figure III-2

1. Page III-3, #8

The objective of purging a well prior to sampling is to insure that a representative sample is collected. An acceptable procedure would require pumping until field parameters such as pH, conductivity, and temperature have stabilized. This stabilization should occur after two or three casing volumes have been purged. As with all operations at the plant, routine records should be kept of the purging and sampling procedures, field parameter measurements, date and time, sampler, procedures for calibration of the field instruments, condition of the equipment and well, the volume purged or the rate and duration of purging, and any problems which occur.

2. Page III-3, #9

Concerning well maintenance and potential contamination, there are some other problems to watch for. If the surface seal around the casing is damaged, the well could be contaminated from surface fluids. Another problem may involve silting, particularly if well development was not successful. If this occurs, the well would require servicing.

3. Table III-1

Static water level may be added to the list and measured prior to purging and sampling.

4. Table III-3

Static water level, pH, temperature, and conductivity are measured at the wells. SWL is measured prior to purging. Temperature, pH and conductivity are monitored for stabilization prior to collecting a sample.

5. Figure III-2

The cluster wells depicted on this figure were eliminated. Single wells were installed at the sites shown and an additional well was installed in the north-west corner of the facility. Static water level should be added to the list of parameters.

Additional Comments

The manual should contain a description of groundwater sampling protocol, including the size of sample required for each parameter, preservation techniques, shipping procedures, record keeping, the use of field blanks, the type of equipment to be used in sampling and making measurements, the procedures for making field measurements, the procedures for calibrating field instruments, instructions for the care and maintenance of field instruments and pumps, and reporting procedures. Field notes should include a description of purging, sampling, and field measurement procedures as well as any problems which arise during these tasks.

Well completion details should be submitted to the WQD.

An upgradient well has not yet been identified or installed.

Baseline water quality should be established prior to facility start-up. For a wastewater lagoon system, the establishment of baseline ususally consists of two sampling events for the Chapter VIII parameters, except the radionuclides, hydrogen sulfide, cyanide, and NO<sub>2</sub>-N. The sampling events should be at least 1 month apart.

PP/nc

cc: Jim Murphy

8-7-84

Review of Plans and Specifications

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER QUALITY DIVISION  
Herschler Building, 122 West 25th  
Cheyenne, Wyoming 82002

PROJECT: Saratoga Aerated Lagoon System, Interceptor Sewer, Collector Sewers

ARCHITECT OR ENGINEER: Arix, 609 East Madison  
Riverton, WY 82501

APPLICANT: Town of Saratoga  
211 South River Street, Saratoga, WY 82331

WATER QUALITY DIVISION REFERENCE NUMBER: C560166, 84-256

REVIEWING ENGINEER: <sup>TC</sup> Ted Coyer and Tom Conrardy

DATE OF REVIEW: August 6, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Is the invert elevation 6756.00S at manhole A-4 correct?
2. It appears from the plans and specifications that flow will be split in MH B-1 between the 15" and 18" sewers running to the plant. Is this a temporary arrangement during construction or permanent? A special detail of M.H. B-1 should be provided.
3. A note on the plans (sheet 3/48) states that temporary pumping will be provided from station 4 + 00 to 9 + 24.51. Will this be the responsibility of the contractor? If so, it would be stated as such in the specifications or bid schedule.
4. Special provisions should be made to protect manhole A-18 from traffic.
5. How will the area around the septage dump station be washed down?
6. It is felt that the benefits of influent flow monitoring may not justify the cost. The NPDES permit only requires that the effluent flow be monitored. Therefore the metering manhole line item in the bid schedule for influent flow monitoring will not be considered eligible for federal participation. The town of Saratoga may retain influent flow monitoring at their own expense if desired.
7. The inlet structure will accumulate solids. We suggest you construct it such that the inlet pipe enters above the high water line of cell 1 and then be diverted either to cell 1 or cell 2. This will provide the required air break but will not increase the head losses in the force main.
8. The sluice gates at the "level control box" of the lagoon lift station should be located on the downstream side of the concrete walls. A sluice gate should be provided in the wall between the wet wells.
9. How will influent flow to the existing cell 1 be maintained during construction?

10. Should a thickness on the fiberglass flume cover be specified?
11. If all the water collected by the sump pump is pumped to wet well number 2, it may be necessary to operate wastewater pump number 3 regardless of whether it is the current mode of operation. This problem could be eliminated by either routing the sump pump water to wet well number 1 or providing an overflow or sluice gate between the wet wells.
12. Will the access hatches over the pumps be strong enough to hold a lifting device and a pump?
13. Will the ventilation system in the lagoon lift station be operated continuously or intermittently?
14. Groundwater and bedrock levels were not shown on the plans. If these are not shown, a statement should be added to the specifications as to the existence of these conditions and the responsibility of the contractor to determine the extent and adjust his bid accordingly. This may prevent claims for unknown site conditions.
15. Is there adequate information for bidders to submit a reasonable bid for concrete block in lieu of cast in place concrete and if selected, to do the construction without any problems.
16. Will dehumidification be provided in the lagoon lift station drywell?
17. We suggest that the sump pump discharge piping be trapped to prevent gases from the lagoon lift station wet well from migrating into the dry well.
18. How will you manage the sludge in the existing cell 2. Pumping or dumping it into cell 1 may cause an excessive discharge of solids from cell 1.
19. We suggest that blowing of the bentonite on the lagoon sides and bottom be prohibited. Also, we suggest better quality controls be written in the specifications. We suggest one soil test for bentonite application per 1/2 acre.
20. It may be advisable to specify tests be done on soil used for mixing with bentonite throughout the lagoon construction to assure soils with uniform properties are used throughout the project.
21. The total volumes of the lagoons in acre-feet (sheet 21) appear to be inaccurate.
22. The chlorine building door must be provided with panic hardware. Also, a window must be provided in the door or in the building next to the door.
23. The chlorine room ventilation system must discharge away from the door. Where will the air intake be located?
24. The chlorine gas detector should be located where it is visible from the door without entering the building.
25. The self-contained breathing unit should be stored in a heated area such as in the heated part of the blower building. The canister unit should be kept at the chlorine building for routine use. However, it should be kept outside the building, but in a heated area is possible.
26. The blower building intakes should be shown.

27. Will all future homes in the Saratoga Inn area be required to install septic tanks and pumping facilities?
28. The high water alarm for the Saratoga Inn lift station is not optional as indicated on the plans.
29. Profiles of the water lines are required. Also, show all water and sewer line crossings.
30. If the weep holes in the fire hydrants are located below the water table, they need to be plugged and other arrangements made for dewatering the hydrant barrels.
31. Section "0" of the enclosed EPA Boiler Plate was omitted from the specification conditions.
32. Contact should be made with the State Archives Museum and Historical Department concerning their comments during facilities planning regarding a historical survey during construction.

TC/pjb  
Enclosure

cc: Grant file

5-18-84

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 84-257  
MA 14068

Cimarron Addition  
(Name of Facility)

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

Brooks Water & Sewer District

P.O. Box 2080

Mills, WY 82644

to construct, install, or modify a public water supply distribution and wastewater collection systems facility according to the procedures and conditions of the application No. 84-257. The facility is located in Section 22, T33N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

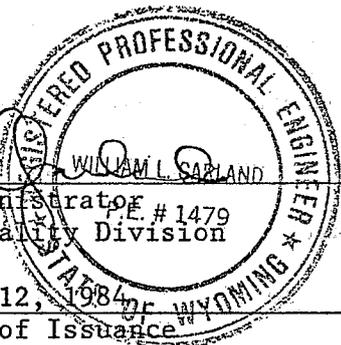
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

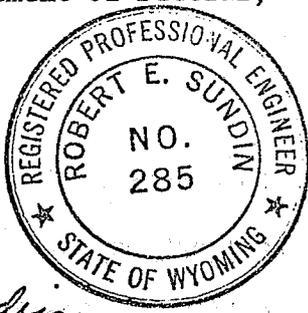
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
*William L. Sarland*  
\_\_\_\_\_  
William L. Sarland  
Administrator  
P.E. # 1479  
Water Quality Division  
  
June 12, 1984  
\_\_\_\_\_  
Date of Issuance

  
*Robert E. Sundin*  
\_\_\_\_\_  
Robert E. Sundin  
Director  
Dept. of Environmental Quality

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

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

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-258  
SEE SPECIAL CONDITION

Hunt Federal 1-6  
(Name of Facility)

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

Hunt Oil Co.  
c/o Marquis Allred Engineering  
201 N. Wolcott  
Casper, WY 82601

to construct, install, or modify a temporary septic tank and absorption field for domestic sewage from workers at a drilling rig facility according to the procedures and conditions of the application No. 84-258. The facility is located in SW1/4 NE1/4 Section 6, T26N, R90W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

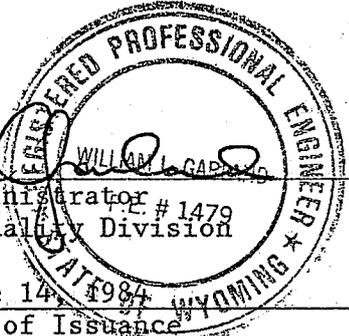
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

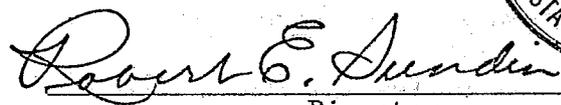
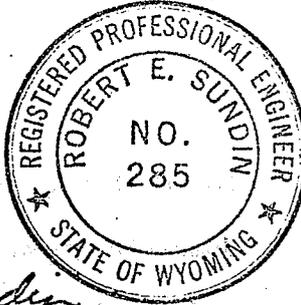
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
WILLIAM L. GARDNER  
Administrator # 1479  
Water Quality Division  
June 14, 1984  
Date of Issuance  


  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  


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

Condition to Permit to Construct

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

Al Emden  
Sweetwater County Sanitarian  
205 East Railroad Avenue  
Green River, WY 82935  
Telephone: 875-2115

cc: Colin Cunningham  
P.O. Box 1541  
Mills, WY 82644

7-31

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 84-259

Black Butte Coal Company Sedimentation Pond SP-H12  
(Name of Facility)

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

Black Butte Coal Company

P.O. Box 98

Point of Rocks, WY 82942

to construct, install, or modify a 18.56 acre foot sedimentation pond facility according to the procedures and conditions of the application No. 84-259. The facility is located in NE1/4 Section 10, T18N, R100W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

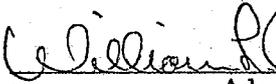
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

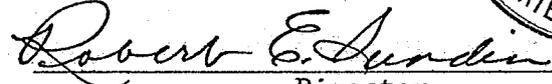
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator #1479  
Water Quality Division  
STATE OF WYOMING  
July 23, 1984  
Date of Issuance

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

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

JH/bah/nc



**Chen & Associates**

Consulting Geotechnical Engi 3

605 Rahonce  
Rock Springs, Wyoming 82901  
307/362-1762

Casper  
Colorado Springs  
Denver  
Glenwood Springs  
Salt Lake City

November 19, 1984

Subject: Permiability test results for the  
Wexpro Kinney #6 Evaporation Ponds, ~~WYOMING~~  
Sweetwater County, Wyoming

Job No. 3-123-84-4-25(7)

# 84-260RR

Wexpro Celcius  
P. O. Box 458  
Rock Springs, WY 82902

Attention: Ms. Jennifer Head

Dear Ms. Head:

Transmitted with this letter are the permiability test results for the undisturbed samples of the impervious soil-bentonite liners for Ponds #1, #2, and #3 for the Wexpro Kinney #6 project site. The undisturbed samples were obtained on October 17, 1984. The excavations for the samples were backfilled and compacted with the on-site impervious materials.

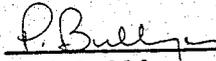
The samples were tested for permiability in accordance with the procedures outlined in the Earth Manual, Designation E-13. The permiability values are presented on Table I, attached.

The impervious liners were designed with a permiability rate of  $6.5 \times 10^{-8}$  centimeters per second. The permiability values obtained from the undisturbed samples indicate the design value has been exceeded and the soil-bentonite liners should function satisfactorily for their intended purpose.

If you have any questions or if we may be of further service, please call.

Sincerely yours,

CHEN AND ASSOCIATES, INC.

  
Pat Bullinger

PB:vs

Reviewed: K.E.T.

Attachment

cc: Wexpro Celcius, Clyde Gale

Will Johnson

Mountain Fuel, Larry Bodyfelt

Department of Environmental Quality, Jack Bedessem

**RECEIVED**  
NOV 21 1984

WATER QUALITY DIVISION  
WYOMING

84-260RR

Wexpro Celcius  
3-123-84-4-25(7)  
November 19, 1984

TABLE I

Summary of Permiability Test Results

	<u>Location</u>	<u>Permiability rate</u> <u>(cm/sec)</u>
Pond #1	54+20N 51+25E	$2.7 \times 10^{-8}$
Pond #2	51+00N 48+00E	$2.2 \times 10^{-8}$
Pond #3	53+20N 46+65E	$2.9 \times 10^{-8}$



*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 9, 1984

William Johnson  
Wexpro Company  
P. O. Box 1129  
Rock Springs, WY 82901

RE: "As Built" Wexpro Kinney Unit No. 6  
Evaporation Ponds (#84-260RR)  
Section 13, T.13N., R.100W.,  
Sweetwater County, Wyoming

Dear Mr. Johnson:

The revised plans and specifications have been reviewed and they appear to meet the minimum design standards for the State of Wyoming. Acceptance of this facility is based upon the following conditions:

1. These ponds are designed for the disposal of produced water from natural gas wells. Authorization for the disposal of any other types of wastes must be obtained from this office.
2. Hazardous wastes as defined by the USEPA or the State of Wyoming may not be disposed of in these ponds.
3. The leak detection system shall be monitored at least once per month. If fluids are observed in the leak detection system, the DEQ/Water Quality Division must be notified immediately.
4. A log shall be kept with the following information: quantity of each load, source and location of each load, the haulers name and date.

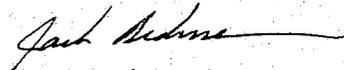
Retain this letter as verification that this facility has been accepted, with the above conditions, by the Wyoming Department of Environmental Quality. A "Permit to Construct" cannot be issued owing to the fact that the facility has already been constructed.

William Johnson  
November 9, 1984  
Page Two

A reminder for future reference: construction of a facility capable of causing or contributing to pollution, is a violation of the Environmental Quality Act and subject to penalties found therein.

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

Sincerely,



Jack Bedessem  
Area III Supervisor

JB:dcn

cc: Plans (#84-260RR)  
File (2)  
Kate Laudon, DEQ/WQD Cheyenne

Mama,  
Please return  
to Snyder  
11-9-84

WATER QUALITY DIVISION  
GROUNDWATER SECTION  
PERMIT APPLICATION REVIEW

APPLICATION NUMBER 84-260RR

DATE SUBMITTED FOR REVIEW 11-5-84

NAME AND LOCATION OF FACILITY Kenney Unit #6  
Evaporation Ponds  
Sec 13 T13N R100W  
Sweetwater County

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

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

SIGNED Kate Laudon  
TITLE Engineer Evaluator  
DATE 11-9-84

APPROVED \_\_\_\_\_  
(Date) \_\_\_\_\_ Groundwater Control Supervisor

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Wexpro - Kinney Unit No. 6 Evaporation Pond

ENGINEER: Larry C. Bodyfelt  
Mountain Fuel Supply Co.  
P. O. Box 1129  
Rock Springs, WY 82901

OWNER: Wexpro Company  
Attention: William Johnson, Jennifer Head  
P. O. Box 458  
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: #84-260R

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: September 13, 1984

ACTION: Not authorized.

COMMENTS: The review of your August 29, 1984 response has been completed. The following items need to be addressed.

1. Three sets of plans and specifications - OK.
2. Overflow pipes eliminated - OK.
3. Key embankments - OK.
4. Leak detection System. It appears that the proposed leak detection system may be ineffective. If a leak were to occur, the proposed monitoring wells may not act as collection sumps and the leak would probably be visually observed at the toe of the dike. An alternate method of leak detection needs to be addressed and detailed (i.e. collection trench).
5. Liner permeability and thickness - OK. If available documentation should be provided as to depth of shallowest most groundwater.
6. After construction, the liner must be tested for effectiveness. Specifications are still needed for this testing program.
7. Construction specifications for the liner - OK.

Review of Plans and Specifications

Wexpro - Kinney Unit No. 6 Evaporation Pond #84-260R

September 13, 1984

Page Two

8. Construction specifications for testing embankments - OK.

9. Flagging - OK.

10. Rip-Rap - OK.

Additional Comments:

11. A monitoring plan needs to be addressed and detailed. The plan should include routine visual observations and notification procedures.

JB:dcn

returned to  
Lander  
9-14-84

Water Quality Division  
Groundwater Section  
Permit Application Review

Application Number 84-260R

Date Submitted For Review 9-5-84

Name and Location of Facility Wexpro - Kenney Unit No 6  
Evaporation Ponds  
SE 1/4 SE 1/4 Sec 13 T13N R100W  
Sweetwater County

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

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

Signed Kate Lander  
Title Engineer Evaluator  
Date 9-13-84

Approved 9/13/84  
(Date)

ajm  
(Signed)  
Groundwater Control Supervisor

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor

FROM: Kate Laudon, Engineer Evaluator *Kg L*

DATE: September 13, 1984

SUBJECT: Groundwater Review Kinney Unit #6 Evaporation Ponds, WQD Ref. No. 84-260R

This memo is a follow-up to our telephone discussions concerning the permit application referenced above. In our initial review of this application, we requested that more detailed information be provided addressing the operation of the leak detection system. The applicant responded by eliminating the leak detection system, and designing monitoring wells instead.

The applicant has proposed to construct four monitor wells through the embankment on the downslope (west) sides of ponds number 2 and 3. It still appears that monitoring wells are not adequate as a leak detection system. The applicant should modify their design, or provide documentation to show that the proposed wells will be effective, considering the geologic conditions at the site.

If the applicant does decide to monitor the ponds on the downslope side, wells or a sump system should be constructed downslope from the toe of the embankment, rather than through the berm. A monitoring schedule should also be provided.

Records of the State Engineer's office show only one water well located within one mile of the proposed site. The well is located in the NW1/4 SE1/4 Section 18, T13N, R99W. Water was encountered at a depth of 325 feet. The well is completed to a depth of 650 feet. The absence of permitted wells in the area supports the applicant's assessment of no shallow groundwater in the area.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Wexpro-Kinney Unit No. 6 Evaporation Ponds

ENGINEER: Larry G. Bodyfelt  
Mountain Fuel Supply Co.  
P. O. Box 1129  
Rock Springs, WY 82901

OWNER: Wexpro Company  
Attn: William Johnson  
P. O. Box 1129  
Rock Springs, WY 82901

WATER QUALITY DIVISION REFERENCE NUMBER: #84-260

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: July 26, 1984

ACTION: Not authorized.

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

1. Three complete sets of plans and specifications need to be submitted with the application for the "Permit to Construct".
2. The emergency overflow pipes are unacceptable. This facility is not designed to treat and produce a wastewater quality acceptable for discharging. Assuming the ponds sizing calculations are correct, the maximum water level should never be exceeded. However, if the maximum water level is reached, the influent flow must be terminated until additional capacity is created by evaporation. Routine monitoring of the ponds water level is essential.
3. According to the Bureau of Reclamation's Design of Small Dams Manual, the embankments should be keyed into the native soil to prevent slippage.
4. Address the operation of the leak detection system:
  - (a) It appears that only seeps located relatively above the perforated collection pipe would possibly be detected. Generally, a porous material (gravel or sand) is placed beneath the entire liner in a manner such that any seepage will be directed to collection pipe(s) and sump.
  - (b) Core must be taken when installing leak detection trenches in the bottoms of ponds so that settling does not damage the liner.
  - (c) After reviewing the geotechnical information, it appears that monitoring wells would not be adequate as a leak detection system.

*ABC*

5. Chapter XI Water Quality Rules and Regulations state that the applicant provide documentation that the facility poses no threat to groundwater or protect it from contamination with a liner equivalent to 3 feet of material having a permeability of  $10^{-7}$  cm/sec. or less. Refer to Chapter III Sections 15 (a) and (b) for information concerning the documentation. Include depth to shallowest most groundwater and logs of water wells within 1 mile of the facility.

6. Following construction of the lagoons, but prior to start up, a testing program shall be conducted to determine the effectiveness of the liner. Specifications are needed for this testing program. If the liner tests out to be less effective than specified, the liner shall be reworked and retested until it meets the specifications.

7. The construction specifications and geotechnical report indicate that a 0.5 foot soil-bentonite liner will be installed on the pond bottoms. The following specifications are needed:

(a) Type of material to be used with the bentonite (maximum allowable particle size, sieve analysis, etc.).

(b) Design permeability of the compacted soil-bentonite mixture.

(c) Type and application rate of bentonite. The swelling or sealing capabilities of untreated bentonite is greatly reduced when in contact with high concentration TDS wastewaters. A polymer treated bentonite equivalent to Volcay Saline Seal 100 should be used.

(d) Written certification that the soil-bentonite liner was constructed in accordance with specifications shall be submitted to this office by a Wyoming Professional Engineer or independent soils firm.

8. Specifications are needed for testing frequency of the embankments and liner during construction (water content, density, compaction, etc.).

9. It should be specified that flagging will be installed in waterfowl become a problem.

10. The construction specifications and engineering report indicate that rip-rap will not be needed to prevent erosion. It should be specified that if routine maintenance practices are ineffective in adequately controlling erosion, then rip-rap will be installed.

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

JB:dcn

Returned  
to Lander  
7-30-84

Water Quality Division  
Groundwater Section  
Permit Application Review

Application Number 84-260

Date Submitted For Review 6-15-84

Name and Location of Facility Kenney Unit #6  
Evaporation Ponds  
Sec. 13, T. 13N, R. 100W Sweetwater  
County

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

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

Signed Kate Landon  
Title Engineer, Evaluator  
Date 7-27-84

Approved 7/26/84  
(Date)

[Signature]  
(Signed)  
Groundwater Control Supervisor

MEMORANDUM

TO: Jack Bedessem, Southwest District Supervisor  
FROM: Kate Laudon, Engineer Evaluator *KGL*  
DATE: July 27, 1984  
SUBJECT: Groundwater Review, Kinney Unit #6, WQD Ref. No. 84-260

The proposed Kinney Unit #6 Evaporation ponds will consist of 3 cells designed to receive water produced from the Kinney Unit No. 6 Gas Well. The ponds will be located in Section 13, T13N, R100W in Sweetwater County.

1. The applicant has not provided documentation of the occurrence of shallow groundwater in the vicinity. Test holes drilled by Chen and Associates to depths of 30 feet encountered 2 to 9 feet of sandy silt overlying a tight claystone bedrock. The holes were left open over night and no groundwater developed in them.
2. Downslope from the proposed ponds, Test Holes #7 and #11 encountered 1-2 feet of sandy silt overlying the claystone bedrock. Considering the geologic conditions, wells appear to be impractical for monitoring seepage from the ponds at this site. The leak detection system should be expanded to monitor the entire area of the ponds.

NOTICE OF RECEIPT OF APPLICATION/DOCUMENT  
FOR REVIEW BY GROUNDWATER SECTION

Permit to Construct # 84-260  
Kinney Unit #6 Crak Ponds.  
Sec 13-13N-100W, Sweetwater Co.

\_\_\_\_\_ Groundwater Pollution Control Permit #  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_ Other  
\_\_\_\_\_  
\_\_\_\_\_

Date of receipt by Supervisor 6/19/84

Received from Green River Dist.

Forwarded for logging-in \_\_\_\_\_

Returned \_\_\_\_\_

Assigned to Kate Laudon

Review to be completed and returned to Supervisor by 6/29/84

Received by Supervisor \_\_\_\_\_

Forwarded for transmittal \_\_\_\_\_  
\_\_\_\_\_

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-261

MA 14068

Grove West Addition  
(Name of Facility)

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

Paradise Valley Water & Sewer District

c/o Casper Board of Public Utilities

200 North David Street

Casper, WY 82601

to construct, install, or modify a municipal water distribution and wastewater collection facility according to the procedures and conditions of the application No. 84-261. The facility is located in Section 14, T33N, R80W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

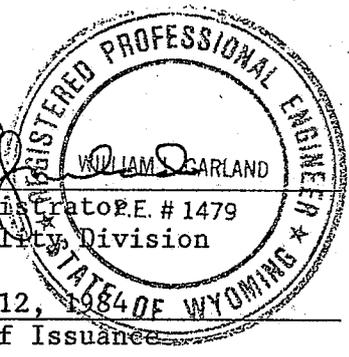
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

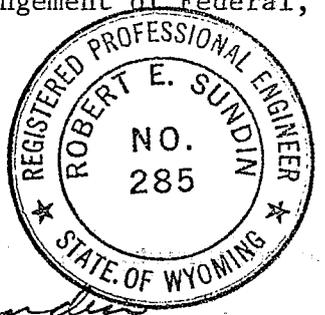
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
WILLIAM GARLAND  
Administrator E. # 1479  
Water Quality Division  
June 12, 1984  
Date of Issuance



  
Director  
Dept. of Environmental Quality



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

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



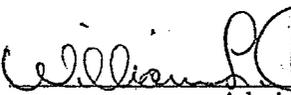
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator # 1479  
Water Quality Division  
STATE OF WYOMING  
July 27, 1984  
Date of Issuance

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

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

CONDITION

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

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

xc: Gale Douglas, Big Horn Sanitation (w/plans)  
R. C. Steele, HUD (w/plans)

*Norma*

THE STATE OF WYOMING



ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

June 19, 1984

Wyoming Department of Health  
P. O. Box 501  
Worland, WY 82401

Attention: Loyd Rayburn and Bill George

RE: #84-264

Gentlemen:

Thank you for the opportunity to take a look at the proposed water distribution system for the Cottonwood Creek Estates, Second Filing.

Since the 69 lots were divided to be served by 4 individual cisterns and distribution systems, none of which fall under the Department of Environmental Quality's definition of a public water supply, twenty or more service connections from a single source, this department has no authority to review and make comments relating to the proposed systems conformance with the regulations.

However, as a general observation, I believe the future lot owners would be better served by a single water system designed and constructed to meet the current regulations for a public water supply. Such a system could be better managed and maintained than four individual systems, thus providing the subdivision with a more dependable and safer water supply.

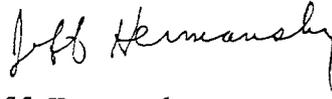
Although the proposed systems do not need a permit to construct from the Department of Environmental Quality, they do fall within the Environmental Protection Agency's jurisdiction. The EPA's definition of a public water supply is 15 or more service connections from a single source. In addition to regular monitoring of the water from each system for bacteriological quality, the EPA may want to review the proposed plans prior to construction. Therefore, I am forwarding two sets of the plans and specifications to the EPA in Denver.

*Sent to EPA*

Wyoming Department of Health  
June 19, 1984  
Page Two

Please feel free to contact either Ed Baruth or me if you have any questions.

Respectfully,



Jeff Hermansky  
Water Quality Evaluator  
Northwest District

JH:dcn

xc: Marc Alston, EPA Denver with Enclosure  
Tim Morrison, Park County Planner  
Jake Strohman, DEQ/WQD Cheyenne  
Plans #84-264



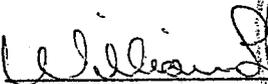
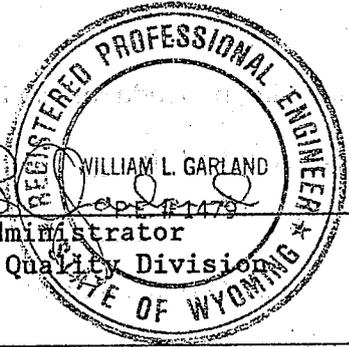
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

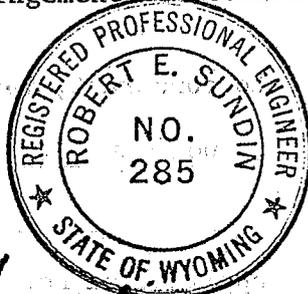
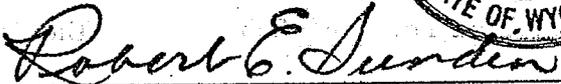
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

  
  
WILLIAM L. GARLAND  
No. 1179  
Administrator  
Water Quality Division  
STATE OF WYOMING

August 8, 1984  
Date of Issuance

  
  
Director  
Dept. of Environmental Quality

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

\* CONDITION ON PERMIT \*

Before backfilling the septic tank/absorption bed system, the applicant is to contact the Park County Planning Office for their inspection of the improvements. Please give Mr. Tim Morrison, at 587-2204, a minimum of 48 hours prior notice before the expected inspection.

EB:dcn

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Cottonwood Trout Ranch Septic System

ENGINEER: Holm, Blough & Co.  
P. O. Box 1748  
Cody, WY 82414

OWNER: Cottonwood Trout Ranch  
1238 Bleistein Ave.  
Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: #84-265

REVIEWING ENGINEER: Ed Baruth, P.E., Northwest District Supervisor *EB*

DATE OF REVIEW: June 15, 1984

ACTION: Not authorized.

COMMENTS:

1. We will now require four (4) sets of plans and specifications for commercial leach bed or field installations in Park County. The fourth set is for the Park County Planner to use for his inspections of such commercial facilities. As you are probably aware, Park County is now in the hearing process to allow them to take over the review of individual single family septic system applications and inspection of commercial septic systems. Please forward one additional set.

2. I certainly appreciate your uncertainty on visitor use of the bird sanctuary. At a minimum, please verify by the fixture unit method, or some other calculation, that the provided sanitary fixtures in the visitor center will not tax the system.

3. The 65 min/inch percolation rate, averaged over three holes, concerns me. If an alternate system cannot be used, we will need an agreed upon additional safety factor considered in this application.

In all honesty, the system designed will probably be satisfactory. We would, however, like to have the numbers run out on the application. Thanks.

EB:dcn

*AC*

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-266  
MA 14008

Casper Fire Training Area  
(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 a potable water main facility according to the procedures and conditions of the application No. 84-266. The facility is located in Section 35, T34N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

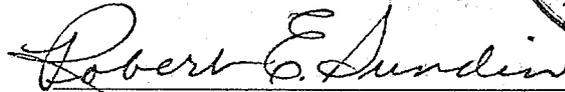
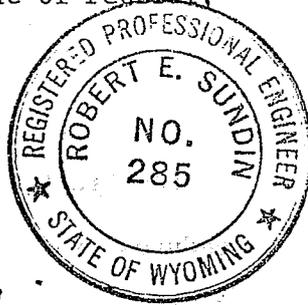
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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


  
Director  
Dept. of Environmental Quality  


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

cc: James D. Couch  
City of Casper  
200 North David  
Casper, WY 82601

6-25-89

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-267  
SEE SPECIAL CONDITIONS

Sublette County Sporting Association  
(Name of Facility)

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

Kyle Walker

P.O. Box 396

Pinedale, WY 82941

to construct, install, or modify a holding tanks facility according to the procedures and conditions of the application No. 84-267. The facility is located in Section 3, T33N, R109W in the County of Sublette, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

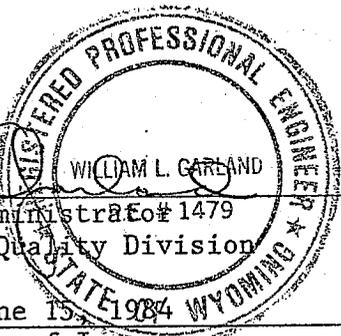
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

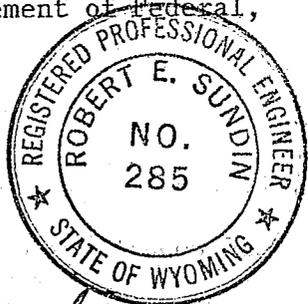
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
*William L. Garland*  
WILLIAM L. GARLAND  
Administrative # 1479  
Water Quality Division  
STATE OF WYOMING  
June 15, 1984  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

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

Conditions to Permit to Construct

1. This permit is issued with the requirement that the tank is pumped as required during the season and just prior to any major event that is held at the rodeo grounds.
2. The permittee shall notify the Sublette County Planner 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:

Janet Montgomery, Sublette Co. Planner, P.O. Box 506, Pinedale, WY 82941  
Telephone: 367-4375

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



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

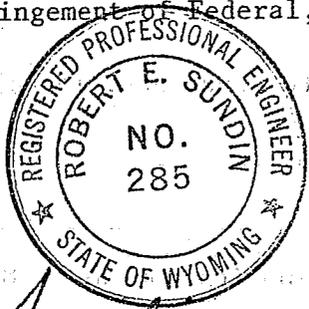
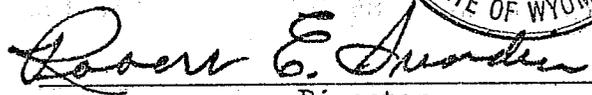
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
  
WILLIAM L. GARLAND  
Administrator # 1479  
Water Quality Division  
July 5, 1984  
Date of Issuance

  
  
Director  
Dept. of Environmental Quality

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

xc: Timm & Associates  
P.O. Box 726  
Gillette, WY 82716



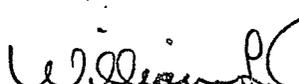
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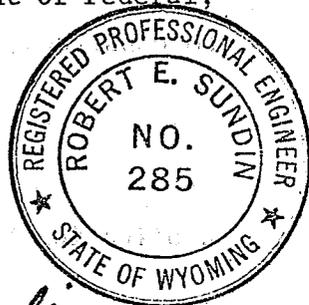
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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AUTHORIZED BY:

  
WILLIAM DARLAND  
Administrator  
Water Quality Division  
P.E. # 1479  
July 23, 1984  
Date of Issuance  


  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  


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

CONDITION

The permittee shall notify the Campbell 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:

Mr. Bill Flaherty  
Campbell County Engineer's Office  
500 South Gillette Avenue  
Gillette, Wyoming 82716

xc: Timm & Associates  
P.O. Box 726  
Gillette, WY 82716

Campbell County Engineer's Office (w/plans)



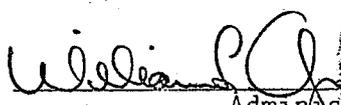
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

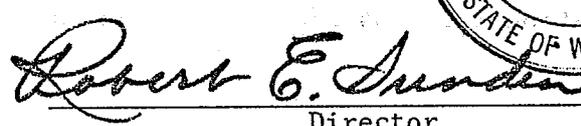
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:

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

July 23, 1984  
Date of Issuance

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

Director  
Dept. of Environmental Quality

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

CONDITION

The permittee shall notify the Campbell 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:

Mr. Bill Flaherty  
Campbell County Engineer's Office  
500 South Gillette Avenue  
Gillette, Wyoming 82716

xc: Timm & Associates  
P.O. Box 726  
Gillette, WY 82716

Campbell County Engineer's Office (w/plans)

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Experimental Farm Picnic Area Septic  
Systems for Restrooms East and West

ARCHITECT OR ENGINEER: Timm & Associates  
P.O. Box 726  
Gillette, Wyoming 82716

WATER QUALITY DIVISION  
REFERENCE NUMBERS: 84-269 and 84-270

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: July 5, 1984

ACTION: Not Authorized

COMMENTS:

- 1.) The inlet and outlet pipes to the septic tanks should be specified as Schedule 40 on the Check Lists. (#C-8).
- 2.) The application form lists the flow of wastewater as 750 GPD while sheet B-5 of the plans lists 1250 GPD (250 picnickers). Which is the correct amount?
- 3.) According to the design criteria in Chapter XI of our regulations, the leach fields are undersized. Even using 750 GPD as a basis for design, the East field requires 940 ft<sup>2</sup> of absorption area and the West field requires 1050 ft<sup>2</sup>.

The appropriate wastewater application rate is 0.8 gal/ft<sup>2</sup>/day for a perc rate of 5 min/in (East field) and 0.715 gal/ft<sup>2</sup>/day for a perc rate of 7 min/in (West field). The total absorption area includes the sidewall and bottom areas of the trench below the invert of the distribution pipe. Either the length of the distribution pipe and/or the depth of the trench below the distribution pipe will have to be increased to achieve the needed absorption area. Please make a submittal noting this change.

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

*ABC*



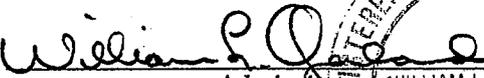
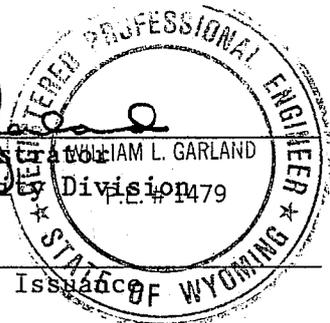
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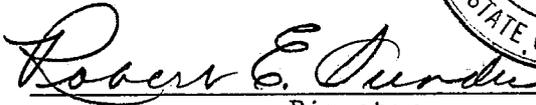
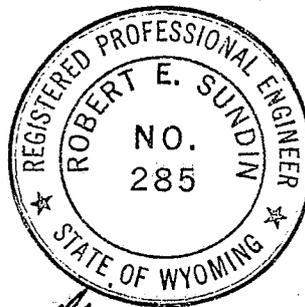
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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:

  
Administ. William L. GARLAND  
Water Quality Division 479  
August 29, 1984  
Date of Issuance  


  
Director  
Dept. of Environmental Quality  


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

\* CONDITION ON PERMIT \*

This permit is authorized with the condition that the applicant applies to this office within 90 days for authorization to install an appropriate sewage disinfection unit(s), to be attached to the sewage lagoon system. Appropriate is defined as chlorination/dechlorination, U.V. disinfection, ozonation, etc.

EB:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Brooks Lake Lodge Water & Sewerage System

ENGINEER: Michael R. Collins  
642 E. Nashville  
Tucson, AZ 85747

OWNER: Dr. Kern M. Hoppe  
6053 Nicolett Ave.  
Minneapolis, MN 55419

WATER QUALITY DIVISION REFERENCE NUMBER: #84-271

REVIEWING ENGINEER: Ed Baruth, P.E., Northwest District Supervisor

*Ed*

DATE OF REVIEW: July 3, 1984

ACTION: Not authorized.

COMMENTS:

1. The application form must be signed by the applicant, not the engineer
2. The site plan submitted indicates that the desired number of water taps will exceed twenty. Therefore, this review is done under the auspices of state jurisdiction. The current limit of EPA jurisdiction is either 15 taps or 25 people/day for a minimum of 60 days/year. Therefore, it appears that this system should be considered a public water supply for EPA purposes. By copy of this review letter to Mr. Marc Alston, EPA Region VIII, Denver, Colorado, we are notifying EPA of the need to set up a monitoring program for your facility.
3. By copy of this review to the affected office of the Forest Service, we are verifying that they have had State Department of Environmental Quality contact on this project, and hereby request any input they have appropriate for DEQ.
4. This division has a concern with the safety of water quality with your spring development plan. Your Detail A, Spring Box (OPTIONAL) would appear to be acceptable. The earthen, unfenced impoundment that appears to be your main option is not.
5. Detail G - Space for chlorination equipment is not acceptable. Chlorine equipment and storage should not be in the booster station building unless an appropriate wall section is added. Further, access should be from the outside of the building.
6. Part C, Section E. Please verify with EPA the frequency of required bacteriological testing.

*ABC*

of Plans and Specifications

Brooks Lake Lodge Water & Sewerage System

Reference Number 84-271

July 3, 1984

Page Two

7. On the "Flow Piping" WW Detail, define the extent of proposed erosion control on the outfall channel.
8. Fire hydrants will not be authorized unless fire flow is provided for in the water supply. A six inch line is the minimum size piping used for water hydrants.
9. Section V Pond Construction:
  - a. 5-02. 95% ASTM D698-78 compaction is required.
  - b. 5-03. Minimum dike width is 8 feet.
  - c. 5-06. Please reference the attached materials describing pond sealing, synthetic liners, and required ground water protection. Chapter XI (page 50) lists an option if you do not wish to perform a subsurface study. This seems to fit with your 0 foot option, although the  $10^{-7}$  cm/sec permeability will apply.
  - d. 5-10. Will the pond be prefilled?
10. Sheets 2 of 3 and 3 of 3 Profiles IV and V need to be re-evaluated with the minimum allowable slope for 6" sewer line at 0.60 feet/100 feet.
11. Sheet 2 of 3 only shows 2 cells of the wastewater system? Further, could you provide a scale and north arrow on both Sheets 1 and 2.
12. As discussed by telecom on June 26, 1984 with Robin Collins, much discrepancy exists with the indicated conformance with the Wyoming Public Work Specification and your technical specifications. As indicated by Robin, please remove unappropriate technical specifications. Affected specifications to receive this editing include Section I, II, III, & IV. Please qualify exceptions to the Wyoming Public Work specifications as your require, if within DEQ regulations, and resubmit.
13. Could you get more specific on types of piping to be used as noted on your details. Will 4", 3" and 2" flanged or threaded pipe be used in the booster station? In conjunction with Comment 12, add refinements to the Wyoming Public Works specifications for those items not covered, such as valving. (We do note your manufacturer data.)
14. Please provide us on your details, the quality of pipe and fittings to be used. A general listing of items would be acceptable too.
15. I have talked with John Wagner, Cheyenne DEQ, who supervises our NPDES program. To date, he has not received the application for the NPDES permit. Further, DEQ will need additional information to determine the suitability of this system to discharge into the drainage ditch leading into Brooks Lake. Please indicate:
  - a. Approximate surface area of the lake.

Plans and Specifications  
Lake Lodge Water & Sewerage System  
Reference Number 84-271  
July 3, 1984  
Page Three

- b. Approximate average depth of lake.
- c. Distance separating discharge point to lake and outlet from lake.

EB:dcn

cc: Marc Alston, EPA Denver  
John Wagner, DEQ/WQD Cheyenne  
U. S. Forest Service, Dubois

TELEPHONE REVIEW

TO: File  
Robin Collins

FROM: Ed Baruth *Ed*

DATE: August 6, 1984

SUBJECT: Brook Lake Lodge #84-271R

The following comments were given to Mr. Robin Collins via telecon on 8/6/84:

1. Your recently submitted compaction specification still quotes 90% compaction in the text. Your July 25, 1984 letter describes compactive effort at 95%, as required in our Chapter XI. Please clear this up.
2. With proper geological information on the bedrock conditions, this office will consider the use of down to a 12" liner of  $10^{-7}$  cm/sec. permeability.
3. Please continue to deal with Mr. John Wagner at Cheyenne DEQ/Water Quality Division on the general plan to discharge to Brooks Lake. The permit to construct cannot be issued until the required level of treatment has been fully defined.

EB:dcn

*C*



*Department of Environmental Quality*

*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

August 29, 1984

Dr. Kern M. Hoppe  
6053 Nicolett Ave.  
Minneapolis, MN 55419

RE: Brooks Lake Lodge #84-271RR

Dear Dr. Hoppe:

The "Permit to Construct" for your water production/distribution system and sewage collection/treatment/discharge facility has been issued by this office. The permit is now in the mail to be received by our Cheyenne offices for official signatures by Mr. William Garland, Administrator, Department of Environmental Quality, Water Quality Division and Mr. Robert Sundin, Director, Department of Environmental Quality.

I certainly appreciate your desire to proceed with construction before our early Wyoming winter begins.

Very truly yours,

A handwritten signature in cursive script that reads "Ed".

Ed Baruth, P.E.  
Northwest District Supervisor

EB:dcn

cc: Mr. Thomas Portice, U. S. Forest Service, Dubois  
William Garland, DEQ/WQD Cheyenne  
Jake Strohman, DEQ/WQD Cheyenne  
John Wagner, DEQ/WQD Cheyenne  
File



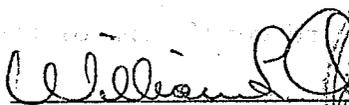
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

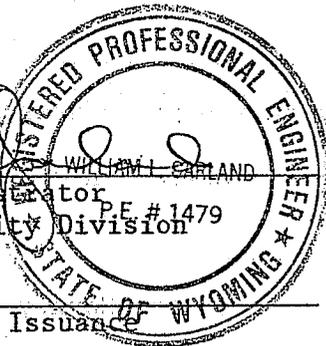
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

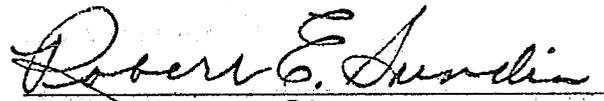
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
\_\_\_\_\_  
Administrator  
Water Quality Division  
P.E. # 1479



July 9, 1984  
\_\_\_\_\_  
Date of Issuance

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

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

EB:dcn

REVIEW OF PLANS AND SPECIFICATIONS  
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: McNeely Mountain Water System Extension

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

OWNER: Joseph Aveni  
5035 Mayfield Rd.  
Cleveland, Ohio 44124

WATER QUALITY DIVISION REFERENCE NUMBER: #84-272

REVIEWING ENGINEER: Ed Baruth, P.E., Northwest District Supervisor *Ed*

DATE OF REVIEW: June 15, 1984

ACTION: **Not authorized.**

COMMENTS:

1. Could you please provide calculations or documentation showing that minimum flow volumes will be available. Further, please verify available water pressure.

EB:dcn

*C*

7-6-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-273  
MA 14068

Round Top Water Treatment Plant  
(Name of Facility)

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

Cheyenne Board of Public Utilities

Box 1469

Cheyenne, WY 82001

to construct, install, or modify a alum and polymer chemical lines for pretreatment purposes facility according to the procedures and conditions of the application No. 84-273. The facility is located in Section 16, T14N, R67W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

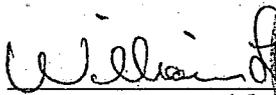
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

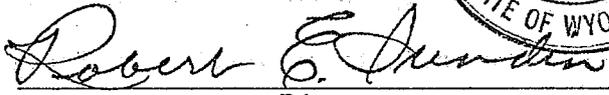
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
WILLIAM D. GARLAND  
PE # 1479  
Administrator  
Water Quality Division  
STATE OF WYOMING  
June 25, 1984  
Date of Issuance

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

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

cc: Carroll Aamold  
Cheyenne Board of Public Utilities  
P.O. Box 1469  
Cheyenne, WY 82001

7-30-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-274R  
MA 14089

South Cheyenne Water System Improvements  
(Name of Facility)

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

South Cheyenne Water & Sewer District

908 Drew Court

Cheyenne, WY 82001

to construct, install, or modify a potable water main facility according to the procedures and conditions of the application No. 84-274R. The facility is located in Sections 7, 8, 17 and 18, T13N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

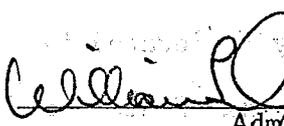
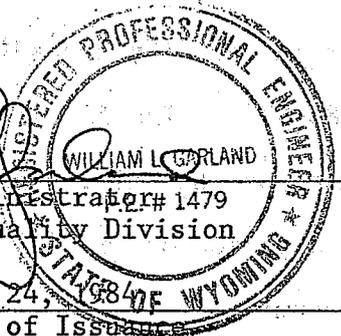
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

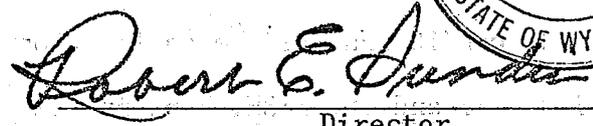
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
  
WILLIAM L. GARLAND  
Administrator # 1479  
Water Quality Division  
July 24, 1984  
Date of Issuance

  
  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality

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

cc: Darryl Alleman  
ARIX  
2021 Clubhouse Drive  
Greeley, CO 80631

6-21-84

Review of Plans and Specifications

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

PROJECT: Water System Improvements, Phase I, South Cheyenne Water & Sewer District, Laramie Co.

ARCHITECT OR ENGINEER: Darryl Alleman, P.E., ARIX  
2021 Clubhouse Dr., Greeley, CO 80631

APPLICANT: South Cheyenne Water & Sewer District  
908 Drew Court, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 84-274

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

DATE OF REVIEW: June 19, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The application for the permit to construct must be signed by an authorized representative of the South Cheyenne Water and Sewer District.
2. Three sets of sealed plans must be submitted before a construction permit can be issued.
3. Sufficient valving must be provided at the intersection of the water lines such that if a break occurs in any line, the other lines can remain operational.
4. We recommend that the maximum spacing of shutoff valves be 800 feet.
5. Either a blowoff or hydrant must be provided at the dead ends of these water lines.
6. A shutoff valve should be provided at the west side of the U.S. Highway 85 crossing.
7. Will the elevation of the seasonally high groundwater be above the bottom of the air release chambers?



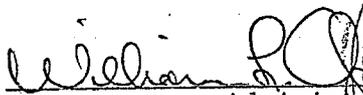
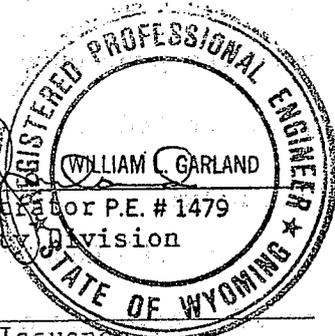
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

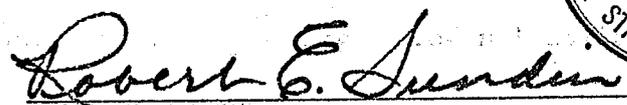
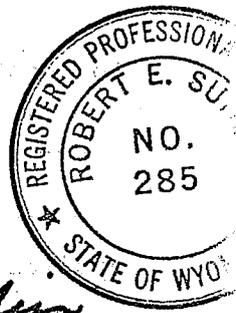
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
WILLIAM C. GARLAND  
Administrator for P.E. # 1479  
Water Quality Division  


  
Director  
Dept. of Environmental Quality  


July 31, 1984

Date of Issuance

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

\* CONDITION ON PERMIT \*

The permittee shall notify the representative of the Uinta County Sanitarian 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:

William Cates  
Uinta County Sanitarian  
P. O. Box 895  
Evanston, WY 82930

JH:dcn

3

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Painter Reservoir Central Sump Pumper House

ENGINEER: Kevin D. Jones, P.E.  
516 Sage St.  
Evanston, WY 82930

OWNER: Chevron, U.S.A.  
P. O. Drawer AA  
Evanston, WY 82930  
Attention: Bob Northrop

WATER QUALITY DIVISION REFERENCE NUMBER: #84-275

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: July 18, 1984

ACTION: Not authorized.

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

1. Recently, this Department has adopted new regulations for the sizing of on-site wastewater disposal facilities. I have enclosed a couple of the pertinent pages of the regulations for your use. Please review them for an explanation of the current sizing criteria.
2. You state 250 gal/day as the absolute peak, i.e. 25 employees at 10 gallons per day. Where do you arrive at 10 gallons/employee/day? The regulations require that we allow for 30 gallons/employee/day (8 hour shift).
3. What material is proposed for the sewer line that runs from the septic tank to the leach field? What is the proposed slope of this line?
4. At what grade is the leach field to be installed?
5. How will traffic be kept off of the leach field?
6. Is the proposed leach field at least 10 feet from all property lines?

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

JH:dcn

Enclosure

ABC



*Chryzanne*  
Copy  
MA 14506  
ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

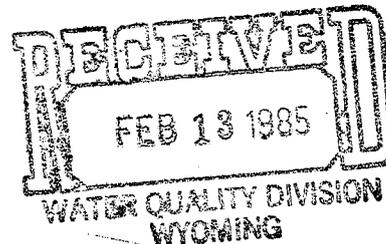
LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 6, 1985

Exxon Company, U.S.A.  
P. O. Box 98  
Frontier, WY 83121

Attention: Dave Shimek



RE: Permit to Construct for Mancamp  
Water and Wastewater Facilities  
#84-276RRRR

Dear Mr. Shimek:

This office has completed our review of the water and wastewater plans and specifications for the Exxon Big Piney Mancamp. We received the initial plan submittal in June of 1984 and finally "as built" plans in January of 1985.

There was often a large lapse between the time we sent review letters and the time we received a response. In the meantime, the project proceeded prior to receiving the permit to construct.

Since the construction of the facilities has already been completed, this office can't issue a permit to construct. However, the as built plans indicate that the facilities were constructed in substantial compliance with the applicable regulations. This letter is issued granting acceptance of the as built construction.

Please be advised that constructing a public water supply facility or any wastewater treatment facility without securing a permit is a violation of the Wyoming Environmental Quality Act and Chapter III of the Water Quality Rules and Regulations. Legal action can be taken against any violators of the Act.

Should Exxon construct any water or wastewater facilities in the future without first securing a "Permit to Construct", this office will initiate legal action. This should be of concern to you since Mr. Anderson has indicated that Exxon may want to expand the mancamp to house additional workers.

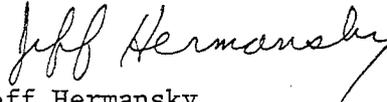
Exxon Company, U.S.A.  
February 6, 1985  
Page Two

If expansion is proposed, be certain to address the capacity of the wastewater treatment plant in your permit application. I believe the plant is near design capacity now when you consider the mancamps design population shown in the initial engineering report.

I would suggest that accurate records are kept of water usage and wastewater flows and concentration. Without such data, we will review any design based upon the criteria required in our regulations. These flows may be more conservative than your actual flows and loading.

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

Respectfully,



Jeff Hermansky  
Water Quality Evaluator

JH:dcn

xc: Plans #84-276RRR  
File  
Gary Simmons, Exxon-Midland, Texas  
Janette Montgomery, Sublette County  
Jon Anderson, AVI, Inc.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Big Piney Man Camp

ENGINEER: A.V.I., P.E.  
1700 Westland Road  
Cheyenne, WY 82001  
Attention: Jon Anderson

OWNER: Exxon Company, U.S.A.  
P. O. Box 1600  
Midland, TX 79702

WATER QUALITY DIVISION REFERENCE NUMBER: #84-276RRR

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: November 9, 1984

ACTION: Not authorized.

COMMENTS: Thank you for sending the shop drawings of the water storage tank, forced main cleanout detail, typical water well, and the signed application forms. This information has answered most of my questions.

However, as we also discussed on the phone, the sewer pipe that was installed in some areas (ASTM-F-789, manufactured by Carlson) is not authorized for sewer lines.

For what type of service is this pipe designed? Show on a plan sheet where this pipe has been installed.

Since the facilities shown in your application have already been constructed, a Permit to Construct can't be issued. However, if the as built construction is found to meet the standards, a letter of authorization can be written.

Feel free to contact either Jack Bedessem or me if you have any questions. You must submit the information about the ASTM-F-789 pipe within 30 days of receipt of this letter.

JH:dcn

C

MEMORANDUM

TO: Plans #84-276RR  
FROM: Jeff Hermansky *JH*  
DATE: August 30, 1984  
SUBJECT: Phone Review

On August 30, 1984, I spoke with Jon Anderson of A.V.I. Engineering to review the Big Piney Mancamp. I made the following comments:

1. We have not received a signed application for the project.
2. Only 2 copies of the plans and specifications have been submitted. Three copies are required.
3. A detail of the forced main cleanout needs to be shown.
4. Jack Bedessem visited the site of the Big Piney Mancamp on August 28, 1984 and found that some sewer pipe was being installed. The pipe was ASTM-F-789, manufactured by Carlson.

The only PVC pipe that is specified is ASTM-D-3034.

I told Jon that F-789 is not permitted for permanent installation and that he would have to justify its use for temporary installations.

JH:dcn

ABC

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Big Piney Man Camp

ENGINEER: A.V.I., P.C. A.V.I., P.C.  
1700 Westland Road Box 34  
Cheyenne, WY 82001 LaBarge, Wyoming 83123

OWNER: Exxon Company U.S.A.  
P. O. Box 1600  
Midland, Texas 79702

WATER QUALITY DIVISION REFERENCE NUMBER: #84-276R

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: July 26, 1984

ACTION: Not authorized.

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

1. Please complete and have the owner sign the enclosed application form.
2. Your design loading rate of 0.17 lbs BOD per person does not meet the current standard of 0.22 lbs BOD per person. Furthermore, the standards require a design flow of 100 gpcd rather than the 75 gpcd that your design proposes. If your proposed loading rates are to be acceptable, justification of their selection is required.
3. What is your basis for using only 1 person per RV site in your design?
4. Does the lagoon into which the treatment plant discharges have a discharge permit? If so, what is the permit number and has it been updated to allow for the increased flow of the mancamp?
5. Cleanouts are required every 400 feet on forced mains. I did not see any cleanouts in the forced main from the grinder pump lift station.
6. What is an electric/manual fire valve in the water storage tank control vault?
7. Bedding and backfilling specifications need to be listed for the lift stations.
8. The standards require that lift station valving be located outside the wetwell.
9. The water and sewer notes on page 3 of 12 state that compaction shall be to a minimum of 90 and 95% of maximum density. What maximum density does this refer to--standard or modified proctor?

ABC

Review of Plans and Specifications

Big Piney Man Camp #84-276R

July 26, 1984

Page Two

10. The package plant capacity is listed at 54,000 G.P.D. The maximum flow for the development, even using 75 gpcd, is 59,250 G.P.D. Can the plant handle the flow when it is above the listed capacity?
11. Hopper bottoms are required in lift station wetwells. The bottom shall be sloped at a minimum of 1.75 vertical to 1 horizontal.
12. Is the wastewater treatment plant to be removed when the man camp is closed?
13. The water storage tank and its' foundation must have detailed plans and specifications. We can condition the permit so that these details can be sent after a contractor is selected.
14. More information will be required regarding the well completion and yield testing. This information will be required after the construction of the well.

Please feel free to contact Jack Bedessem or me if you have any questions regarding this review.

JH:den

Enclosure

6-26-84

MA 14068



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

June 25, 1984

Igo Well Service  
38 Jarmon Trail  
Douglas, WY 82633

RE: Igo Well Service Waste Tank - DEQ Reference No. 84-277 and NOV Docket  
No. 1226-83

Dear Gentlemen:

We have received and reviewed the as built plans for your waste tank which were submitted by John A. Lambert and Associates and were found to be in general compliance with the Water Quality Division's rules and regulations. Therefore, the plans are hereby accepted for the record and the NOV is terminated.

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

Sincerely,

William L. Garland  
Administrator

WLG/TC/nc

cc: John A. Lambert & Assoc., Box 34, Douglas, WY 82633  
NOV file



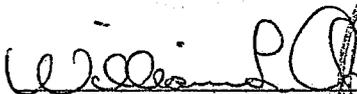
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

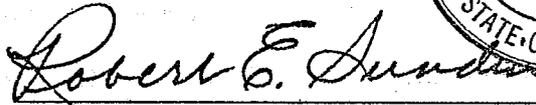
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:

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

June 26, 1984  
Date of Issuance

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

Director  
Dept. of Environmental Quality

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

EB:dcn

MEMORANDUM

TO: Plans #84-278

FROM: Ed Baruth *EB*

DATE: June 20, 1984

SUBJECT: Telephone Review--Comments provided to Jerry Crews, Cardinal Engineering,  
Riverton, Wyoming

June 20, 1984 comments include:

1. Supply information on water pressure available for worst case.
2. If 4" PVC water line alternate is used, installation of water hydrants is not authorized.
3. Please supply pump curves for submersible pumps.
4. Verify that minimum distance requirement for short section of sewer force main and water supply line be maintained by field "fitting."

EB:dcn

*AC*

7-6-84

PERMIT TO CONSTRUCT

- New  
 Renewal  
 Modified

Permit No. 84-279R

MA 14089

TOWN OF EAST THERMOPOLIS  
WATER AND SEWER IMPROVEMENTS  
\_\_\_\_\_  
(Name of Facility)

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

Town of East Thermopolis

112 East Warren

East Thermopolis, WY 82443

to construct, install, or modify a 6" water system & extend sanitary sewer

\_\_\_\_\_ facility according to the procedures and conditions of the

application No. 84-279R. The facility is located in \_\_\_\_\_

Section 31, T43N, R94W and Section 36, T43N, R95W

\_\_\_\_\_ in the County of Hot Springs,

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.

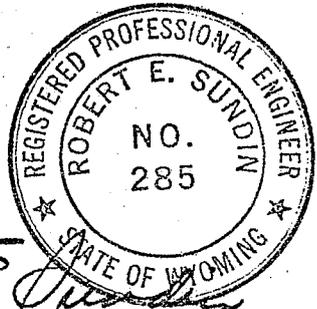
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AUTHORIZED BY:

  
*William J. Garland*  
WILLIAM J. GARLAND  
Administrator # 1479  
Water Quality Division  
STATE OF WYOMING

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

July 3, 1984  
Date of Issuance

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

EB:dcn

TELEPHONE REVIEW

TO: Worthington, Lenhart, Carpenter & Johnson, Inc.

FROM: Ed Baruth, P.E. *Ed*

DATE: June 25, 1984

SUBJECT: Town of East Thermopolis Water & Sewer Improvements #84-279

1. Please provide verification from the Town of Thermopolis that they will accept and have sufficient capacity for the sewage generated and probable water use increase, resulting from this project.

Given to Dorin Fostel 6/25/84.

EB:dcn



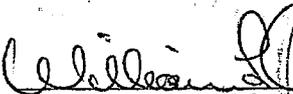
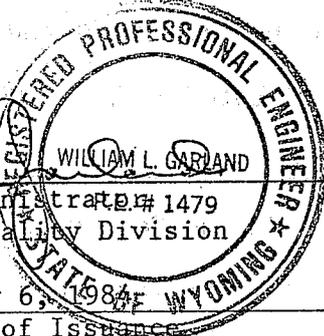
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

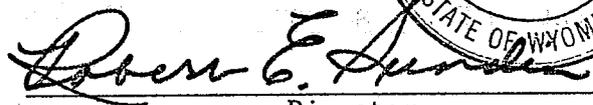
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
  
WILLIAM L. GARLAND  
Administrative # 1479  
Water Quality Division  
July 6, 1984  
Date of Issuance

  
  
Director  
Dept. of Environmental Quality

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

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

7-2-84

Water Quality Division  
Groundwater Section  
Permit Application Review

Application Number 84-280

Date Submitted For Review 6-25-84

Name and Location of Facility WYODAK Coal

Sec 27 T. 50N R. 71W

Campbell Co

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

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

Signed P. Pared

Title \_\_\_\_\_

Date 6-27-84

Approved 6/29/84  
(Date)

agm  
(Signed)  
Groundwater Control Supervisor



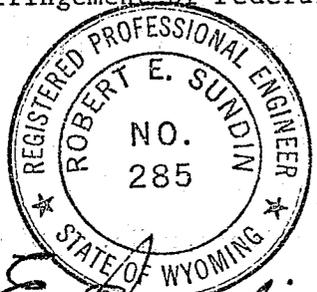
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

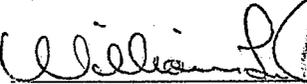
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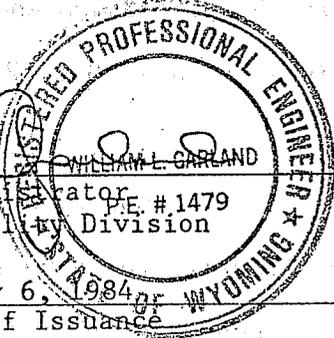
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



  
WILLIAM L. GARLAND  
Administrator  
Water Quality Division  
P.E. # 1479  
July 6, 1984  
Date of Issuance

A circular seal for a Registered Professional Engineer. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The center of the seal contains the name "WILLIAM L. GARLAND" and the number "P.E. # 1479".

  
Director  
Dept. of Environmental Quality

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

xc: Western Water Consultants  
P.O. Box 3042  
Sheridan, Wyoming 82801

Water Quality Division  
Groundwater Section  
Permit Application Review

Application Number 84-281

Date Submitted For Review 6-25-84

Name and Location of Facility WYONAK Coal

Sec 27 T 50 N R 71 W

Campbell Co

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

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

Comments attached.

Signed P. P. Paul

Title \_\_\_\_\_

Date 6-27-84

Approved 6/29/84  
(Date)

ajm  
(Signed)  
Groundwater Control Supervisor



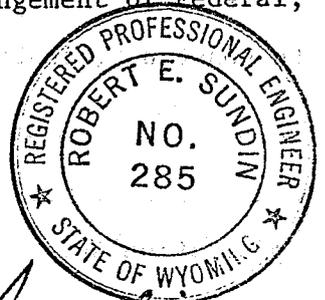
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

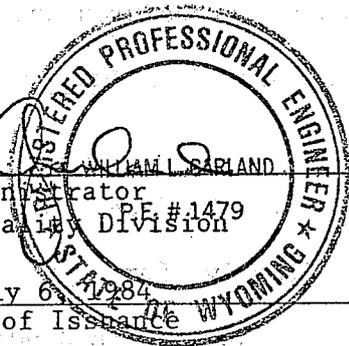
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

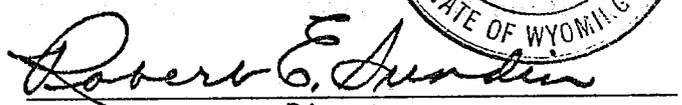
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



  
\_\_\_\_\_  
Admin. Operator  
Water Quality Division  
P.E. #1479  
July 6, 1984  
Date of Issuance

A circular seal for a Registered Professional Engineer in the State of Wyoming. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF WYOMING" at the bottom, separated by two stars. The inner circle contains the name "WILLIAM L. SARLAND" and the number "P.E. #1479".

  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

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

xc: Western Water Consultants  
P.O. Box 3042  
Sheridan, Wyoming 82801

Water Quality Division  
Groundwater Section  
Permit Application Review

Application Number ~~84-282~~ ~~251-282~~ 84-282

Date Submitted For Review 6-25-84

Name and Location of Facility WYODAK Coal  
Sec 22 T 50N R 71 W  
Campbell 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 P. Puel

Title \_\_\_\_\_

Date 6/27/84

Approved 6/29/84  
(Date)

ajm  
(Signed)  
Groundwater Control Supervisor

7-6-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-283  
 SEE CONDITIONS ATTACHED TO THIS PERMIT  
 MA 14068

Gap Lake Federal 2-17  
 (Name of Facility)

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

Chevron U.S.A. Inc.  
P.O. Box 599  
Denver, CO 80201

to construct, install, or modify a drilling fluids reserve pit facility according to the procedures and conditions of the application No. 84-283. The facility is located in NE1/4 SE1/4 T43N, R108W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of one year (one (1) year maximum) from the date of issuance of this permit.

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

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

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

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

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

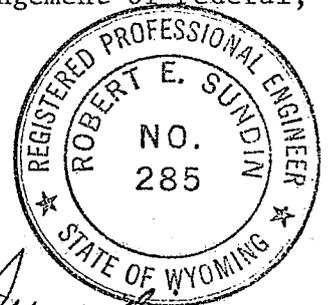
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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AUTHORIZED BY:



*William L. Garland*  
\_\_\_\_\_  
Administrator  
Water Quality Division



*Robert E. Sundin*  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality

June 22, 1984  
\_\_\_\_\_  
Date of Issuance

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

This permit authorizes you to dispose of 168,000 gallons of drilling fluids wastewater on 7 miles of adjoining road surface, comprising approximately 17 acres, a total liquid application of 0.36 inches.

#### CONDITIONS TO PERMIT TO CONSTRUCT

1. Wastewater shall be applied at a rate which will not produce runoff or ponding. Application shall not be initiated during the spring runoff period or other periods where saturated soil conditions exist.
2. The application site slope shall not exceed 8% for vehicular application or 15% for spray irrigation or irrigation by gated pipe on the contour. Vegetated areas of the site shall not be spray-irrigated where possible plant leaf injury may result from salt residue.
3. Wastewater application shall be terminated within 300 feet of the defineable high water mark of perennial and intermittent drainages, irrigation canals, lakes and reservoirs.
4. To assess the long term effects of the wastewater application on the soil and its relation to revegetation success on denuded areas, the seed mix (% of selected species), seed rate (lbs. of bulk seed/acre and % pure live seed), mulch and fertilizer preferred by the landowner-lessee or land management agency should be forwarded to E. J. Fanning, Department of Environmental Quality, Water Quality Division, 1111 East Lincolnway, Cheyenne, Wyoming 82002, within 30 days of receipt of this permit. Not applicable to this permit.
5. After dewatering by land application, the permittee must demonstrate, before backfilling, that the residual solid wastes will remain hydrologically isolated, i.e. by virtue of the surrounding soil matrix or bedrock, or by installation of artificial clay liners and/or caps. Failure to demonstrate this will necessitate the excavation of the pit wastes and haulage to an approved disposal site.

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

7-6-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-284  
 SEE SPECIAL CONDITIONS  
 MA 14068

Airport Golf Course Restrooms  
 (Name of Facility)

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

Cheyenne Parks and Recreation Department  
610 West 7th Street  
Cheyenne, WY 82007

to construct, install, or modify a Clivus Multrum composting toilet facility according to the procedures and conditions of the application No. 84-284. The facility is located in Section 24, T14N, R67W in the County of Laramie, in the State of Wyoming.

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

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

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

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

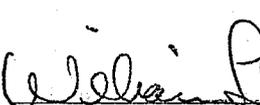
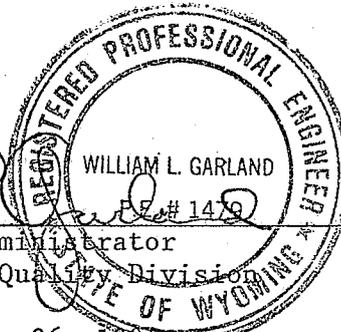
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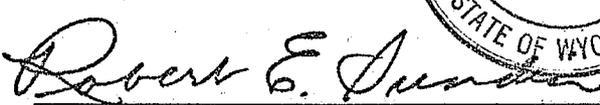
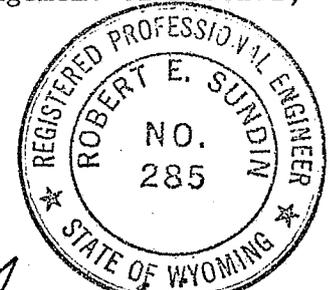
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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
PE # 1479  
Administrator  
Water Quality Division  
STATE OF WYOMING  
  
June 26, 1984  
Date of Issuance

  
Director  
Dept. of Environmental Quality  


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

Conditions to Permit to Construct

1. The bottom of this facility shall be located above the seasonally high groundwater table.
2. All wood products used below grade shall be treated to retard decay.
3. The doors shall be provided with self-closing devices.
4. All openings in this building shall be screened to prevent access by flies.
5. The access opening into the vault shall have a ventilated cover.
6. The permittee shall notify the Laramie County Environmental Health Unit of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. The authorized representative in your area can be contacted at the following address:

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

cc: Gary Grunkemeyer, City of Cheyenne, 2101 O'Neil, Cheyenne, WY 82001



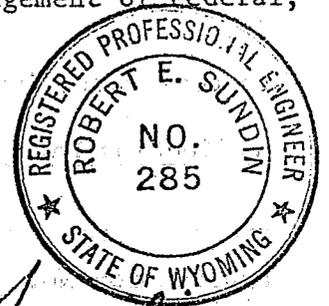
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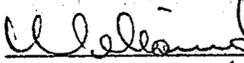
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AUTHORIZED BY:



  
WILLIAM L. GARLAND  
Administrator  
Water Quality Division  
STATE OF WYOMING

  
Director  
Dept. of Environmental Quality

August 1, 1984

Date of Issuance

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

JH:dcn

MEMORANDUM

TO: Plans #84-285

FROM: Jeff Hermansky *JH*

DATE: July 26, 1984

SUBJECT: Phone Review of Bairoil Abel Springs Water Line Replacement

On July 26, 1984, I conducted a phone review of the Town of Bairoil's Abel Springs Water Line Replacement. I spoke with Robert Hartley who is retained as Bairoil's town engineer. Robert and I discussed the following items:

1. I was concerned about the connection of the 3 well houses shown on sheet 6 of 9 to the proposed 6" main. I wanted to know if the pressures in the wells could overcome the pressures in the water main, and if there were check valves in the well riser pipes.

Robert said that the wells overcome the pressure in the existing 4 inch line. He added there should be no problem in the new line since the pressures are lower due to proposed pressure reducing valves.

Robert said he believes that there are check valves in the existing well riser pipes. This will be verified during construction.

2. I told Robert that the regulations require that air relief valve piping must extend to the surface. I read the following: "The open end of an air relief pipe from automatic valve must extend to at least one foot above grade and provided with a screened downward-facing elbow."

3. I told Robert that the application must be signed by the owner. He said he is the Town engineer and can therefore act as an official Town representative signing the application.

JH:dcn

*ABC*



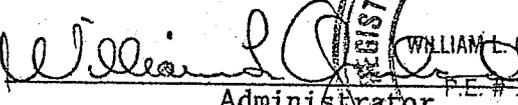
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:

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

June 28, 1984

Date of Issuance

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

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

EB:dcn



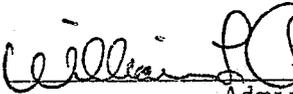
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

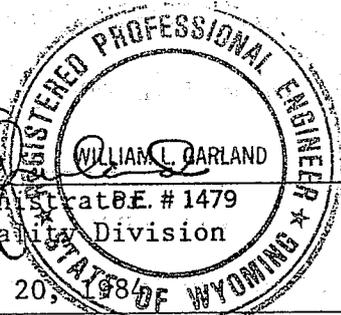
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

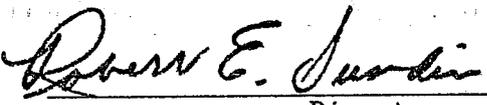
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

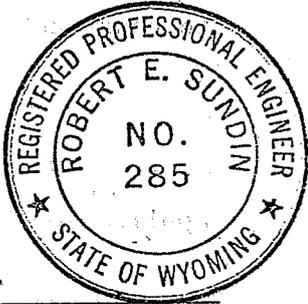
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Admin. at E. # 1479  
Water Quality Division  
July 20, 1984  
Date of Issuance



  
Director  
Dept. of Environmental Quality



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

xc: Wells Engineers, Inc.  
1415 11th Street  
Gering, Nebraska 69341

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-288RR  
MA 14068

Bloedorn 7th Addition  
(Name of Facility)

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

Bloedorn Lumber Co.

201 West 21st Ave.

Torrington, WY 82240

to construct, install, or modify a municipal water distribution and wastewater collection facility according to the procedures and conditions of the application No. 84-288RR. The facility is located in Section 10, T24N, R61W in the County of Goshen, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

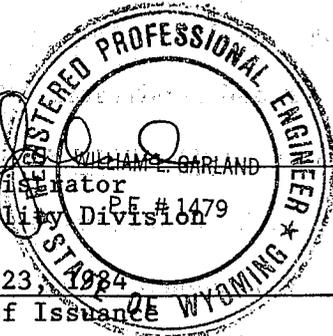
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:

  
*William E. Garland*  
William E. Garland  
Administrator  
Water Quality Division  
PE # 1479  
August 23, 1984  
Date of Issuance

  
*Robert E. Sunda*  
Director  
Dept. of Environmental Quality

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

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

Review of Plans and Specifications

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

PROJECT: Bloedorn 7th Addition, Goshen Co.

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

APPLICANT: Bloedorn Lumber Company  
201 W 21st Ave., Torrington, WY 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 84-288R

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

DATE OF REVIEW: August 21, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

This review acknowledges that we have received a letter from the Town of Torrington stating that they will accept the 0.3% grade on the sewer. However, we have not received a reply for comments #1 and #3 of my last review dated June 29, 1984. These comments are concerning the manhole spacing and the request for additional set of the plans.

7-2-84

Review of Plans and Specifications

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

PROJECT: Bloedorn 7th Addition, Goshen Co.

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

APPLICANT: Bloedorn Lumber Company  
201 W 21st Ave., Torrington, WY 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 84-288

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

DATE OF REVIEW: June 29, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The maximum manhole spacing is 400 feet. The separation between MH 5-3-7E and MH 4-3-7E exceeds this.
2. A letter is needed from the Town stating that they will accept the sewer section that is on a 0.3% slope and that they recognize that this will require increased maintenance due to routine line flushing.

The design report also assumed 39 lots would contribute flow to this sewer where only 19 lots are currently plotted with future development to the east being unknown. Peak flows will be less than 1.0 fps for quite a few years.

The Manning's Coefficient of Friction (n) has been a very debatable subject in the pipe industry. Studies have shown that "n" does not vary with different pipe material due to scum and slime build-up and others have shown it does. We tend to favor the first view but the point is not worth debating in this case. I do recommend that the drop through the manholes be eliminated to maintain all the head that is available. Suggest running the pipe through the manhole and just knocking out the top for access.

3. We also need another set of plans so that we can have 3 copies - one each for the owner, engineer and DEQ.



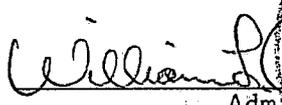
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

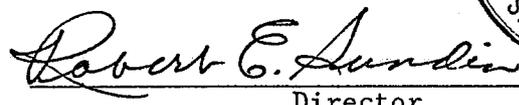
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
P.E. # 1479  
Administrator  
Water Quality Division  
STATE OF WYOMING  
July 27, 1984  
Date of Issuance

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

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

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

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Schelldorf Addition Water Line

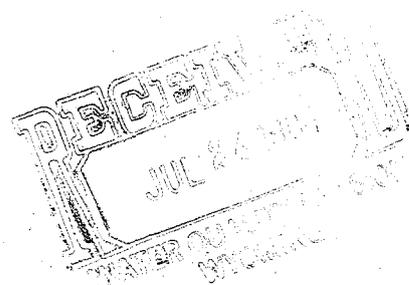
ARCHITECT OR ENGINEER: Ralph W. Goodson  
Bearlodge Engineering  
P.O. Box 130  
Sundance, Wyoming 82729

WATER QUALITY DIVISION  
REFERENCE NUMBER: 84-289

REVIEWING ENGINEER: Rich Ruyle *RR*

DATE OF REVIEW: July 20, 1984

ACTION: Not Authorized



COMMENTS:

- 1.) Please include a gate valve on the new water line near Station 16+28 where it T's into the existing 8 inch line (Detail #3) or justify why a valve is not included.
- 2.) It appears an air release valve is needed at the high spot in the water line near Station 10+22. Please include an ARV on the plans or justify why one is not used.
- 3.) Since the water line will cross a creek, I have included the Army Corps of Engineers regulations on utility line crossings.



*Norma*  
84-290R  
MA 14068  
ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

2161 COFFEEN AVENUE,  
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

December 13, 1984

Mr. Scott Raymond  
Thunder Basin Coal Company  
Coal Creek Mine  
P.O. Box 546  
Wright, Wyoming 82732

Dear Scott:

I have reviewed your recent submittal regarding the modifications of 17-SR-1-M-2 Sediment Pond. The method of operation as described in your submittal is acceptable and the plans are hereby approved. Because the modifications have already been made, a Permit to Modify cannot be issued. However, this letter serves essentially the same purpose.

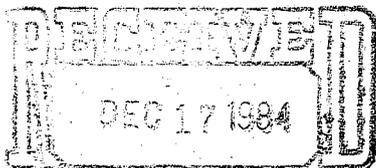
During my last inspection the end of the Parshall flume had been blocked off with a second plate attached to the weir plate. Consequently, the capacity above the base of the Parshall flume is contained up to the top of the weir plate. The blocking of the flume is the main reason I requested as-builts in the first place. This detail is not shown on the plans and it is not important at this point that it be shown. I simply want you to be aware of the situation.

I will verify that the staff gage has been installed during my next inspection. I suggest that the 10-year 24-hour storm event level (4667.4) be clearly marked on the staff gage.

Sincerely,

*Rich Ruyle*

Rich Ruyle  
District Supervisor



RR:ls  
WATER QUALITY DIVISION  
WYOMING

xc: George Hoffman, Hydro-Engineering

*aba*

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Black Thunder Mine 17-SR-1-M-2  
Sediment Pond Modifications

ARCHITECT OR ENGINEER: Mary Bliszc  
Thunder Basin Coal Company  
P.O. Box 406  
Wright, Wyoming 82732

WATER QUALITY DIVISION  
REFERENCE NUMBER: 84-290

REVIEWING ENGINEER: Rich Ruyle *RR*

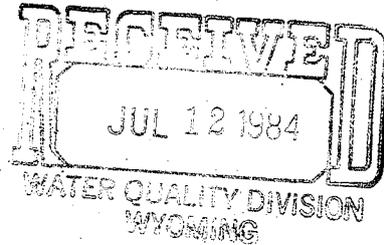
DATE OF REVIEW: July 11, 1984

ACTION: Not Authorized

COMMENTS:

- 1.) Please complete and return the enclosed application sheet.
- 2.) The active capacity of the pond has not been included in the reservoir capacity table. This is equal to the volume of the pond between the level of the bottom of the Parshall flume and the level of the top of the flume, i.e., between 4670.3 and 4671.5. The volume should equal or exceed 5.95 acre-feet - the volume of a 10-year 24-hour storm.

If this is not the case, you can submit a letter detailing your current method of discharge which uses a pump to decant the pond. Include what level the pond is kept at and how it is measured so it can be ensured that there is enough reserve volume to receive the runoff from a 10-year storm without overtopping the spillway, i.e., weir plate.



7-30-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-291R

MA 14068

Englewood Village  
(Name of Facility)

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

Cheeper Enterprises  
c/o L.M. Cheesbrough  
1780 Westland Road  
Cheyenne, WY 82001

to construct, install, or modify water and sewer lines in the Englewood Village mobile home park according to the procedures and conditions of the application No. 84-291R. The facility is located in Section 34, T14N, R66W in the County of Laramie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

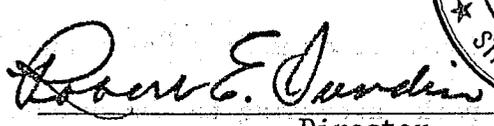
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

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

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

July 24, 1984  
Date of Issuance

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

cc: James D. Voeller, AVI, p.c., 1700 Westland Road, Cheyenne, WY 82001  
Laramie Co. Environmental Health Unit, 1710 Snyder Ave., Cheyenne, WY 82001  
Howard Hutchings, Environmental Health, Health & Social Services, Hathaway Bldg., Cheyenne

7-17-84

Review of Plans and Specifications

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

PROJECT: Englewood Village, Laramie Co.

ARCHITECT OR ENGINEER: James D. Voeller, AVI, p.c.  
1700 Westland Road, Cheyenne, WY 82001

APPLICANT: Cheeper Enterprises, c/o L.M. Cheesbrough  
1780 Westland Road, Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 84-291

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

DATE OF REVIEW: July 13, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Need a new application which has been signed by an authorized representative of the owner.
2. Need three sets of plans signed by the registered design engineer.
3. There are several locations where the line direction (E. INV) is labeled incorrectly.
4. The grade between M.H.5 and M.H.6 should be checked.
5. The profile of the line north from M.H.8 was not shown.
6. Show a detail of how the cleanouts will be installed.
7. Profiles of the water lines should be included. Show the location of the water lines where they cross the sewer lines.
8. The water and sewer risers should comply with Part F of our new Chapter XI.
9. Provide details of the meter vaults.
10. The 1979 edition of the Wyoming Public Works Specifications is out of print. The 1984 edition is now in effect.



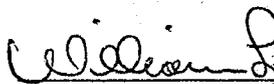
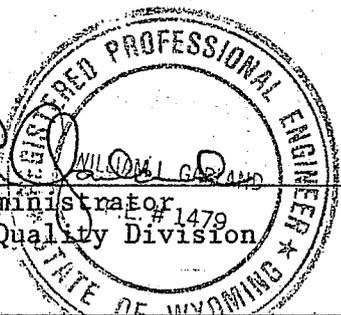
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

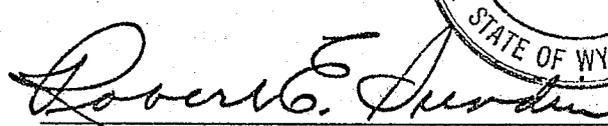
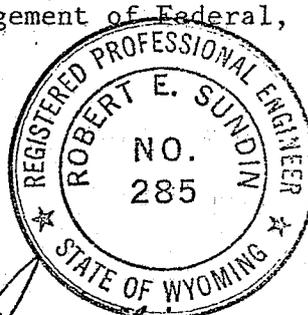
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
\_\_\_\_\_  
WILLIAM L. GARAND  
Administrator #1479  
Water Quality Division  


  
\_\_\_\_\_  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  


July 3, 1984

Date of Issuance

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

EB:dcn

7-31

PERMIT TO CONSTRUCT

New  
 Renewal  
 Modified

Permit No. 84-293

MA 14068

Pathfinder Mines Corporation - Lucky Mc Mine  
(Name of Facility)

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

Pathfinder Mines Corporation - Lucky Mc Mine

P.O. Box 831

Riverton, WY 82501

to construct, install, or modify a single pumpback well and temporary/permanent pumped water line facility according to the procedures and conditions of the application No. 84-293. The facility is located in Section 15, T33N, R90W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

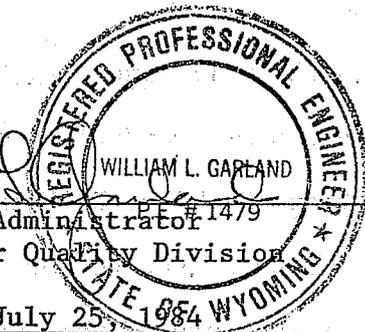
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

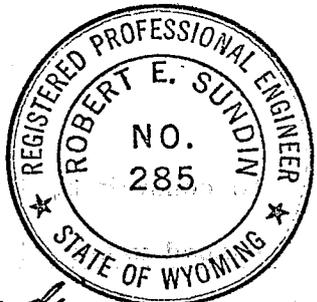
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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AUTHORIZED BY:

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

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

July 25, 1984  
Date of Issuance

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



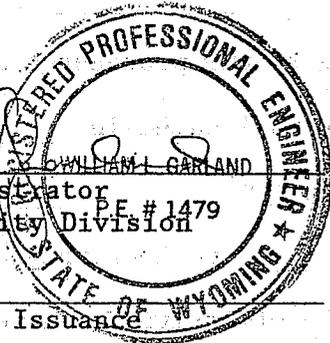
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

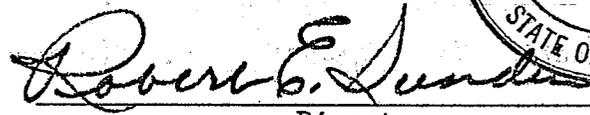
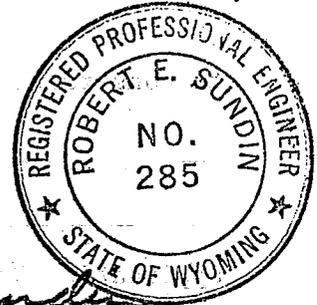
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AUTHORIZED BY:

  
WILLIAM L. GARLAND  
Administrator  
Water Quality Division  
PE # 1479  


  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  


July 3, 1984

Date of Issuance

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

EB:dcn

cc: Bob Shelton, City of Worland

THE STATE



OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

November 2, 1984

Amoco Production Company  
P. O. Box 1400  
Riverton, WY 82501

Attention: B. H. Balthrop

RE: Moxa Arch Office, Granger, Wyoming  
#84-295R

Dear Mr. Balthrop:

This office has received your written request for authorization to utilize a concrete septic tank rather than the permitted fiberglass septic tank.

Jack Bedessem of this office has already given verbal authorization to Monroe Fehrenback of Amoco, to install the concrete tank. In reviewing the septic tank detail drawing that you submitted to this office, it has been determined that the concrete tank meets the minimum standards.

Therefore, the change from a fiberglass tank to the concrete tank shown is authorized.

Thank you for supplying the tank detail drawing for this change order.

Respectfully,

A handwritten signature in cursive script, appearing to read "Jeff Hermansky".

Jeff Hermansky  
Water Quality Evaluator

JH:dcn

xc: Plans 84-295R - Cheyenne and Lander w/attachment  
Al Emden, Sweetwater County Sanitarian w/attachment

PERMIT TO CONSTRUCT

Permit No. 84-295R

- New
- Renewal
- Modified

Amoco Production - Granger Field Office  
(Name of Facility)

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

Amoco Production Co.

P.O. Box 1400

Riverton, WY 82501

to construct, install, or modify a septic tank - leach field facility according to the procedures and conditions of the application No. 84-295R. The facility is located in Section 5, T18N, R111W in the County of Sweetwater, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

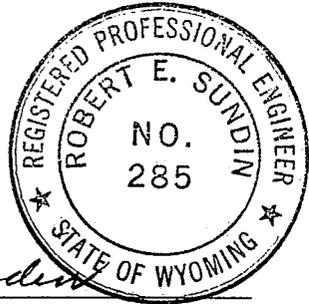
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

  
*William L. Garland*  
WILLIAM L. GARLAND  
Administrator #1479  
Water Quality Division  
STATE OF WYOMING  
September 9, 1984  
Date of Issuance

  
*Robert E. Sundin*  
Director  
Dept. of Environmental Quality

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

Condition to Permit to Construct

The permittee shall notify the Sweetwater County Sanitarian 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:

Al Emden  
Sweetwater County Sanitarian  
205 East Railroad Ave.  
Green River, WY 82935  
Telephone: 875-2611, ext. 278

3

MEMORANDUM

TO: Plans, 84-295

FROM: Jeff Hermansky *JH*

SUBJECT: Phone Review of Plans

DATE: July 19, 1984

On July 19, 1984, I conducted a phone review of the Amoco Granger Field Office sewage disposal system with Paul McCarthy of Robert Jack Smith and Associates.

I made the following comments to Paul:

1. Four (4) copies of all plans and specifications are required for any on-site disposal system. Only one copy was sent.
2. The gradation or percolation rate must be specified for the sand that is to be installed between the washed gravel and bottom of the trench. Ideally, the sand should have a percolation rate of between 5 and 10 minutes per inch.
3. You may specify either untreated building paper or straw to be installed between the washed gravel and backfill. Both are not necessary.
4. The leach field must be protected from traffic or storage.
5. The backfill specification for the septic tank must be more detailed. There must be 6 inches of sand under the tank, the material gradation, thickness of lifts, and % compaction, must all be noted.

JH:bah

*ABC*



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

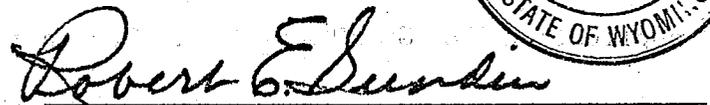
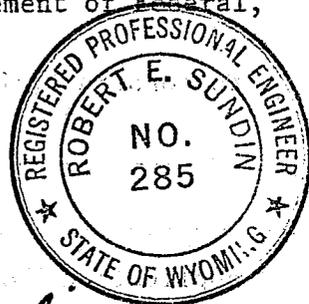
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:

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


  
ROBERT E. SUNDIN  
Director  
Dept. of Environmental Quality  


July 31, 1984  
Date of Issuance

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

JH:dcn

MEMORANDUM

TO: Plans #84-296R

FROM: Jeff Hermansky *Jeff*

DATE: July 16, 1984

SUBJECT: Phone Review of Southland Park Water and Sewer

On July 16, 1984, I conducted a phone review of the Southland Park water and sewer lines with Wayne Rosendahl. I made the following comments:

1. Saddles may not be used to make service connections to the sewer collection line. Connections must be made with either Y or Tee fittings in line.
2. Note on the plans the stationing and degree of bend of the bends proposed for the looping of the waterline.
3. Remove the note from the profile view that states: "End 8" DI Water Main w/Plug Sta 6+25.
4. We have not yet received a letter from the Town of Diamondville accepting the connection of the water and sewer to their system.

JH:dcn

*ABC*



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

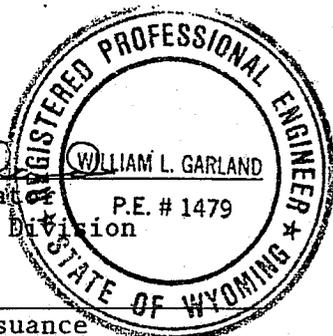
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

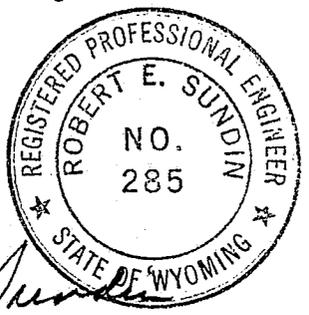
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

*William L. Garland*  
\_\_\_\_\_  
Administrator  
Water Quality Division



*Robert E. Sundin*  
\_\_\_\_\_  
Director  
Dept. of Environmental Quality



September 21, 1984  
Date of Issuance

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

CONDITIONS OF PERMIT

The intent of this permit is to authorize the construction of a series of groundwater interceptor wells. The purpose of this system is to intercept and contain a band of saline groundwater which has been identified as a result of tailings disposal.

The interceptor system must be monitored for effectiveness. A detailed proposal for monitoring the effectiveness of this interceptor system must be submitted to this department by November 30, 1984. The proposal should be addressed to: Tony Mancini, Department of Environmental Quality, Water Quality Division, Herschler Building, 122 West 25th Street, Cheyenne, Wyoming 82002.

JB:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Stauffer Chemical Company - Groundwater  
Interceptor System 3

ENGINEER: S. G. O'Brien  
Stauffer Chemical Company  
P. O. Box 513  
Green River, WY 82935

OWNER: Stauffer Chemical Company  
P. O. Box 513  
Green River, WY 82935

WATER QUALITY DIVISION REFERENCE NUMBER: #84-297

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: August 20, 1984

ACTION: Not authorized.

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

1. Specifications for the pipe materials are needed (i.e. pressure rating, class, applicable standards, material).
2. Address the elevation of the sump manhole in relation to the 25 year flood level.
3. Address alternate power sources and/or operation in the event of a power failure.
4. Address the program to be used for monitoring the effectiveness of System 3.
5. System 3 intercepts saline seepage travelling in alluvial zone. Address the potential and interception of saline seepage through the fractured bedrock zone.
6. A map is needed which includes the location and identification (numbering scheme) of all monitoring wells used for groundwater quality monitoring.

*AC*

Review of Plans and Specifications  
Stauffer Chemical Company -  
Groundwater Interceptor System 3, #84-297  
August 20, 1984  
Page Two

7. Information is needed as to how System 3 was designed (i.e. saline seepage identification, seepage rates, interceptor locations, depths, pump sizing, etc.).
8. Address the operation of the sump/pump station (i.e. pump alternation, cycling, on-off volumes, ventilation, etc.).
9. Specifications are needed for the 1 hp and 5 hp pumps.
10. Address and detail how the interceptor wells are to be completed and sealed.

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

JB:dcn

cc: Phil Pucel, DEQ/WQD Cheyenne

Water Quality Division  
Groundwater Section  
Permit Application Review

Returned  
to Guel  
8/23/84

Application Number 84-297

Date Submitted For Review July 3, 1984

Name and Location of Facility Groundwater Interceptor System 3  
Sec. 23 T 20 N R 109 W  
Sweetwater Co.

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

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

Signed R. Puel

Title \_\_\_\_\_

Date 7-3-84

Approved 8/23/84  
(Date)

TJM  
(Signed)  
Groundwater Control Supervisor

MEMORANDUM

TO: File

FROM: Phil Pucel *Phil*

DATE: August 21, 1984

SUBJECT: Stauffer Chemical Interceptor System 3, S23, T20N, R109W, Sweetwater Co., DEQ/WQD Ref. No. 84-297

On Monday, August 20, 1984, I spoke to Jack Bedessem concerning groundwater considerations and design adequacy of the referenced interceptor system. I indicated to Jack that the appropriate reference materials for review of the system were contained in "Land Quality Permit No. 257: Stauffer Chemical Groundwater Interceptor Systems". This volume contains geological descriptions and maps depicting the potentiometric surface of the alluvial aquifer in the area of concern, a TDS iso-concentration map, a computer-modeled SWL contour map after 6 months of pumping and a computer-modeled SWL contour map after 2 years of pumping. A schematic of a typical recovery well is shown on drawing No. 803 of WQD permit application 84-297 while well locations are depicted on drawing No. 802 of WQD permit application 84-297.

The water quality data submitted in the referenced LQD #257 document is not clearly keyed to existing wells. Since this information will be important in assessing the performance of the system, clarification will be requested for all monitor well locations and related water quality data. In addition, a request will be made for quarterly submission of water quality data for all the monitor wells so that system performance can be evaluated. No regular submittals have been made to WQD to date.

The proposed recovery well design indicates that water will be pumped from the alluvium. Since impacted groundwater has been found in the fractured bedrock in other locations of the facility such as beneath pond #2, there is some concern that this problem may extend beneath the alluvium in the meander belt. J. C. Rondeau of Stauffer Chemical earlier explained that if any seepage through the fractured zone was occurring, it would appear as seeps in the face of the bedrock outcrop at the meander belt boundary. He said there is approximately a 20 foot drop between the bottom of pond #2 and the top of the alluvium.

A request will be made for a written explanation of the well locations, expected pumping rates and performance assessment.

I indicated that it is now possible to verify the computer predictions with in-house equipment, provided that Stauffer provided the software and aquifer characteristics data. Jack did not think that it was necessary to dedicate that level of effort in reviewing the design adequacy.

3-20-85



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

March 20, 1985

Mr. Randy Fultz  
Howard Needles Tammen & Bergendoff  
907 North Poplar Street, Suite 250  
Casper, WY 82601

RE: Hogadon Ski Area Wastewater O&M Manual, DEQ/WQD Ref. No. 84-298RR

Dear Randy:

I have reviewed the operation and maintenance manual for the Hogadon Ski Area wastewater treatment plant. The following items need to be addressed:

1. Sampling and Reporting

More detail is needed on sampling and reporting to fulfill the NPDES permit (if applicable) and also for any process control. Specific questions are:

- a. What do you sample for?
- b. Where do you get the samples?
- c. How do you collect them?
- d. How do you preserve them?
- e. What tests must be run immediately?
- f. How long can each sample be preserved before testing?
- g. Who will do the lab analysis and how do you get the samples there?  
Contact person?
- h. How often do you have to sample?
- i. What do you do with the results? Establish one copy for yourself and send one to DEQ? Contact person and address at DEQ?

j. If the tests were for process control, what do the results mean? What corresponding action is necessary?

k. Is any lab equipment necessary on-site?

## 2. Safety

Potential hazards for the operator need to be addressed.

a. Storage of chlorine tablets must not be close to any organic material.

b. Operator must be aware of hazards in confined spaces (manholes, basins, etc.). Not only toxic fumes and poisonous gases but also inadequate oxygen content is a problem.

c. Unknown chemical spills into system must be evaluated before doing anything.

## 3. Emergency Response

A listing of agencies, utilities, suppliers, etc. should be readily available in the case of a major treatment or electrical breakdown; unknown hazardous, toxic, or oil spill; or personnel injury. The name, contact person, telephone number and address should be given. Examples are DEQ, civil defense, EPA, local emergencies (911, hospital, police, fire); manufacturers (Sanilogical, blower equipment), suppliers (chlorine, electrical), utilities (electrical, gas, telephone, water).

## 4. Operation and Maintenance

Enclosing the manufacturers literature on the appendixes is good but most operators never read it. I suggest taking the important sections such as the visual observations on page 17 and making a check list out of it.

A list of inventory parts, chemicals, etc. should be made.

The manufacturer's literature in the appendices refers to many models, frame sizes, motor sizes, etc. This plant's particular equipment should be highlighted or identified for clarity.

A general layout of the site, piping, plant, manhole, etc. should be included or available on-site.

## 5. Records

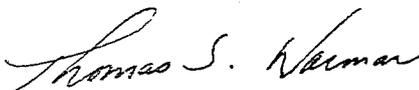
A simple record system should be set up which would include correspondence, sampling results, equipment repairs, blank forms, daily operating logs, etc.

Mr. Randy Fultz  
March 20, 1985  
Page 3

I do not foresee the above comments as being major changes to the O&M manual. Maybe just a couple more chapters consisting of 1-3 pages each will be adequate. The above comments were intended to be general in nature in hopes that you would fill in the specifics.

Since the ultimate disposal method has not been decided, some of the above comments may change. If you have any questions, please call.

Sincerely,



Thomas S. Norman  
Water Quality Engineer

TSN/nc

84-298R



THE STATE OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*  
*Water Quality Division*

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

October 25, 1985

Randy Fultz  
HNTB  
907 North Poplar Street, Suite 250  
Casper, WY 82601

RE: Hogadon Ski Area - Wastewater O & M Manual (Construction Permit Numbers 84-298R and 85-351RR)

Dear Randy:

The operation and maintenance manual for the Hogadon Ski Area's wastewater treatment facilities has been submitted in accordance with the conditions of the permits to construct 84-298RR and 85-351RR. The Water Quality Division has reviewed the manual and determined that it meets the requirements of the Water Quality Division Rules and Regulations, Chapter XI, except for the following comments:

1. Page 2-6 and 3-11. The debris from the inlet basket screen must be disposed of properly. This could be disposed of at the landfill along with the other garbage collected at the ski area.
2. Page 4-1. The manual states that BOD tests should be performed in the field. This is incorrect as the tests are performed in the laboratory. Did you mean a dissolved oxygen measurement?
3. Page 4-1. The second sentence only refers to effluent samples whereas you are desiring that both influent and effluent samples be taken. This should be clarified that two samples are necessary and should be run for BOD and TSS.

Once these three items are corrected, sufficient final copies of the manual should be supplied to the owner for their efficient and effective operation of the new wastewater facility. Please call if you have any questions.

Sincerely,

Thomas S. Norman  
Water Quality Engineer

TSN/nc

cc: Larry Harms, Superintendent, Parks Department  
O&M File  
Permit File

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 84-298RR

Hogadon Ski Area Wastewater Facilities  
 (Name of Facility)

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

Larry Harms

Superintendent of Parks Department

City of Casper

1715 E. 4th

Casper, WY 82601

to construct, install, or modify a municipal wastewater collection and municipal treatment facility according to the procedures and conditions of the application No. 84-298RR. The facility is located in Section 17, T32N, R79W in the County of Natrona, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

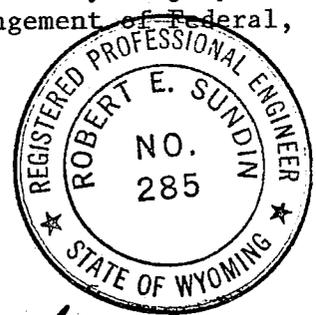
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

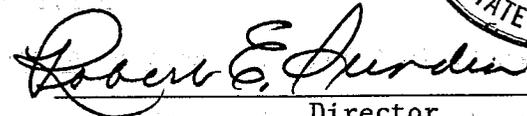
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



  
WILLIAM L. GARLAND  
P.E. # 1479  
Administrator  
Water Quality Division  
STATE OF WYOMING  
August 28, 1984  
Date of Issuance

  
Director  
Dept. of Environmental Quality

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

cc: Randy L. Fultz  
HNTB  
P.O. Box 3478  
Casper, WY 82602

8-22-84

Review of Plans and Specifications

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

PROJECT: Hogadon Ski Area, Natrona Co.

ARCHITECT OR ENGINEER: Randy Fultz, HNTB  
P.O. Box 3478, Casper, WY 82602

APPLICANT: Larry Harms, Superintendent of Parks Department  
1715 E. 4th, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 84-298R

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

DATE OF REVIEW: August 21, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Wastewater temperature. Actual effluent analysis at the Hogadon Ski Area near Centennial shows the wintertime wastewater to be less than 7°C. Hogadon Ski Area has two below grade package plants with an aerated equilization basin which is similar to this project. The Meadowlark Resort near Tensleep has wintertime wastewater temperatures of 2-3°C. The treatment system is a below grade covered oxidation ditch.

The installation of a cistern in a heated building will not dramatically affect the temperature of the water. I still think the design temperature should be less than 9°C.

2. Inlets shall be baffled and directed away from the outlet to minimize shortcircuiting.
3. Air must be controlled to each aeration basin. Blowers must be designed to permit varying the volume of air delivery by either time clocks or variable speed motors.
4. Clarifier inlets must distribute flow evenly into the basin, minimize turbulence and prevent short circuiting. For rectangular tanks, the inlet must be the width of the basin.

Baffles are required in the clarifier to intercept scum prior to the weirs. Baffles must be 3 inches above the weir and 12 inches below the weir. Equipment must be installed that provides for scum removal.

7-19-84

Review of Plans and Specifications

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

PROJECT: Hogadon Ski Area, Natrona Co.

ARCHITECT OR ENGINEER: Randy Fultz, HNTB  
P.O. Box 3478, Casper, WY 82602

APPLICANT: Larry Harms, Superintendent of Parks Department  
1715 E. 4th, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 84-298

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

DATE OF REVIEW: July 18, 1984

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. The plans and specifications for the wastewater treatment plant were not signed or sealed by a Wyoming Professional Engineer.
2. How and where will the flow be measured? Where are the influent and effluent sampling points for NPDES sampling?
3. Section 14.a. of the DEQ regulations requires 3/4 inch screening where pretreatment is not used.
4. Due to the nature of the facility, there will be tremendously high peak loads. The 6000 gpd design flow will probably occur over only an 8-10 hour period with the majority of that being in less than 4 hours. Has this been taken into account for the design of the aerators, clarifier, sludge return, etc.

Also, the bugs go through a feast cycle with a 14 hour famine cycle. Will the bugs wash out during the high flows? Will the feast/famine cycle reduce treatment efficiency?

The Hogadon Ski Area near Laramie had continued problems until flow equilization was installed.

5. On page 4 of the design calculations, the removal efficiency value of "K" corresponds to a temperature of 23-15°C. Although this wastewater temperature may be typical of household wastewater, it does not apply to wastewater generated from a ski area. First of all the water supply is very cold and secondly there are very few sources of warm water that would raise the temperature (i.e., showers, laundry, dish washing). I would expect the temperature to be between 3-9°C which requires a much lower "K" value and this requires a longer detention time according to your design calculations.

This higher "K" value was also used on page 6 of the design calculations.

6. Section 14(g) of the regulations requires the aeration requirements to be based on 2.0 times the design BOD5 and 7.5 times the design ammonia nitrogen unless other data is supplied. No technical justification was made for using lower numbers.
7. Section 14(i) of the regulations requires that the oxygen transfer efficiency for diffused aeration be based on wastewater and not water and that altitude also must be taken into account. The graph on page 8 does not make any sense to me. How was the 0.68 ppm rate obtained?
8. Extra air requirements were not allowed for the air lift pump in the final clarifier.
9. Section 14(j) and (k) of the regulations requires the sludge recirculation be variable between 25-100% of the average design flow. If air pumps are used, they must be designed for a minimum of 80% static submergence. This information was not provided in your design.
10. Section 14(l) of the regulations requires that the air flow be metered and that pressure gauges be provided. Section 14(m) requires that the air be able to be controlled to each aeration basin.
11. The information on the clarifier is inadequate. The surface area and volume of the clarifier, the weir lengths and locations, and the inlet structure are not detailed. Also baffles and scum removal is not provided.
12. Section 14(i) of the regulations requires that the blower intakes be located to avoid clogging from snow. The low intake to the blower housing will probably be covered with snow during the ski season.
13. Section 21(a)(vii) of the regulations requires the chlorine contact basin to provide a length-to-width ratio of 5:1.
14. Section 24 of the regulations requires a draft operation and maintenance manual at 50% completion of construction with final approval prior to startup.
15. Section 3.2 and 3.3 of the specifications leave the design work to the construction for example, stating that the blowers shall provide capacity for diffusion and mixing to maintain a 20 ppm D.O. level leaves the design up to the contractor. The specification should state a specific blower that will provide air that meets these standards.

THE STATE



OF WYOMING

ED HERSCHLER  
GOVERNOR

*Department of Environmental Quality*

*Water Quality Division*

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

August 21, 1984

Bennett-Carder & Associates  
Box 1324  
Rock Springs, WY 82901

Attention: Harry Kessner

RE: Permit Application #84-299

Dear Harry:

I am returning your plans and application for a permit to construct a 6" sewer line to serve the Valley Feed Store in Farson.

Jack Bedessem of this office has spoken with Curtis Martin, the owner of the Valley Feed Store, and verified that the proposed sewer line is to serve the store only. Therefore, the proposed line is considered a service line, not a collection line, and does not need to be permitted by this Department.

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

Respectfully,

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

Jeff Hermansky  
Water Quality Evaluator

JH:dcn

xc: Curtis Martin

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Sage Creek Pond

ENGINEER: Holm, Blough & Co.  
P. O. Box 1748  
Cody, WY 82414

OWNER: Mark Tolford  
#3 Absaroka  
Cody, WY 82414

WATER QUALITY DIVISION REFERENCE NUMBER: #84-300

REVIEWING ENGINEER: Ed Baruth, P.E., Northwest District Supervisor

DATE OF REVIEW: July 10, 1984

ACTION: Not authorized.

COMMENTS:

1. I have discussed this application with Tim Morrison, the Park County Planner. There is a need to establish easements on Lots 17, 18, and 19. Further, the required MH at Station 5+90 should be located strategically on the short access to Sage Drive. This is a local issue, so please work with Tim on this item.
2. Complete specifications will be needed on the lagoon construction. A concrete apron will be needed on the pipe inlet to prevent scouring.
3. Are you planning to utilize the Wyoming Public Works (1984) specifications for sewer line, cleanout, and manhole construction, and for needed testing?
4. Please indicate what provisions are planned for proper operation and maintenance of the lagoon. Mosquito control, weed mowing, dirt work maintenance, fence maintenance, etc. should be considered.
5. Warning signs should be posted to prevent unauthorized access.
6. We note our requirement in Part D of Chapter 11 for separation and setback distances to equal those established for septic systems on small wastewater systems. Since this application is for a system which could be classified under our large system regulations, separation distances listed in our Part B must be considered also. Specifically, the requirement for a 500' separation of housing and wastewater lagoons.

ABC

First, the lagoon must be at least ten feet from all property lines. Second, we will work with you on the 500' limit. Since this is a system which could be possibly classified under our large or small regulations, we will accept a shorter separation distance from existing habitation if all property owners within 500' of the lagoon indicate in writing that they will take no exception to the lagoon location. Further, they are to be notified of the temporary odor problem associated with lagoons (both sides of Sage Drive).

7. Please verify the distance between the high groundwater level and the proposed lagoon bottom.

8. The pond will need to be prefilled to at least the two (2) foot level before it is placed into service.

9. You indicated a 60 minutes/inch-plus percolation rate? Please explain how the 0.10 in/day soil permeability number was arrived at.

EB:dcn

cc: Tim Morrison