

6-29-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-301
SEE SPECIAL CONDITION

Sims Shop and Camper Hookups
(Name of Facility)

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

Larry K. Sims

P.O. Box 1044

Lander, WY 82520

to construct, install, or modify a sewage collection lines, septic tank, leach field facility according to the procedures and conditions of the application No. 83-301. The facility is located in Lot 4 Ellis Estates Subdivision, Section 20, T33N, R99W in the County of Fremont, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

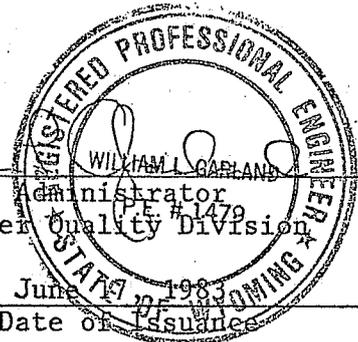
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

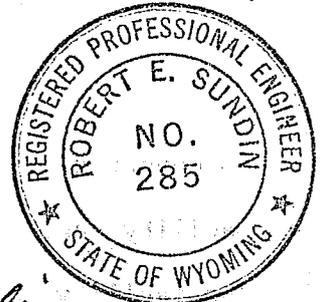
AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator
Water Quality Division
PE # 1479

June 1989
Date of Expiration



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 Fremont 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:

Ronald A. Martin
Fremont County Planner
Room 200, Courthouse
Lander, WY 82520

7-6-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-302R

West Transmission Pipeline
(Name of Facility)

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

Board of Public Utilities

City of Worland

P.O. Box 816

Worland, WY 82401

to construct, install, or modify a 20 inch water transmission pipeline facility according to the procedures and conditions of the application No. 83-302R. The facility is located in Sections 23, 24, 25, 26, T47N, R93W in the County of Washakie, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

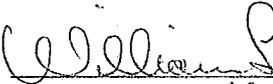
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

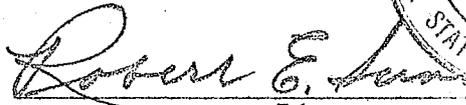
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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
REGISTERED PROFESSIONAL ENGINEER
STATE OF WYOMING
June 22, 1983
Date of Issuance


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

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

FL:nc

MEMORANDUM

TO PLANS: Modification of West Transmission Pipeline #83-302

FROM: Francis LaBarge *fl*

DATE: June 15, 1983

SUBJECT: Phone Review

On June 15, 1983, after reviewing the plans, I called the engineer and informed him the following points need to be addressed before a permit can be authorized.

1. An "Application for Permit to Construct" form needs to be submitted.
2. The plans and specifications need to be signed by the engineer.

No review letter was sent.

FL:crb

ABC

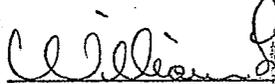
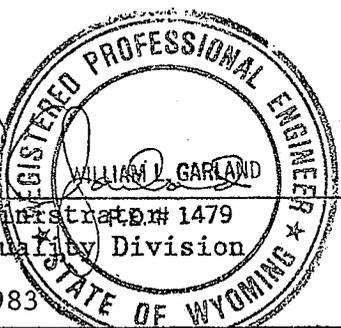
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

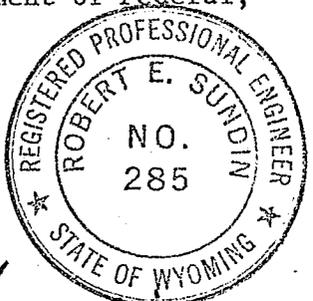
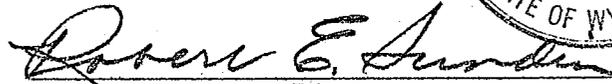
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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



Administrative # 1479
Water Quality Division
August 12, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

WATER QUALITY DIVISION

210 LINCOLN

LANDER, WYOMING 82520

PHONE: (307) 332-3144

PROJECT: Southland Commercial Addition

ENGINEER: Dale Crank
Johnson, Fermelia and Crank
Box 631
Kemmerer, WY 83101

OWNER: Tom Perdew
1780 Westland Road
Cheyenne, WY 82001

WATER QUALITY DIVISION REFERENCE NUMBER: 83-303

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: 7/8/83

ACTION: Not Authorized.

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

A Manhole should be installed where the proposed sewer line B (6 inch) connects to the existing 8 inch sewer line. (sheet 13/14)

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

B.C

3-20-89

PERMIT TO CONSTRUCT

New

Permit No. 83-304RRR

Renewal

Modified

PINES OF YELLOW CREEK - PHASE I

(Name of Facility)

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

West Evanston Development

667 East 100 South

Salt Lake City, UT 84102

to construct, install, or modify a Water distribution and wastewater collection
systems to serve 84 1 and 2 bedroom apartment units, recreation, social and
laundry center. facility according to the procedures and conditions of the

application No. 83-304RRR. The facility is located in _____
Sec. 29, T15N, R120W

_____ in the County of UINTA,

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

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

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

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

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

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

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

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

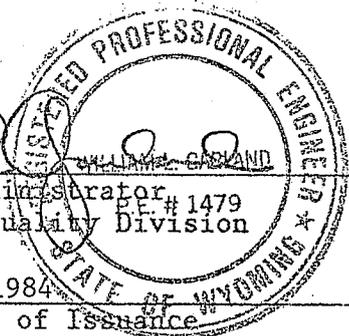
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



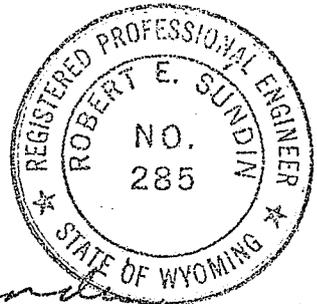
Administrator
Water Quality Division
P.E. # 1479
MARCH 13, 1984

Date of Issuance





Director
Dept. of Environmental Quality



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

JB:mpm
3/13/84

cc: Wayne Shepard, Engineer
City of Evanston
P. O. Box 130
Evanston, WY 82930

George E. Patience
DMJM Coon King & Knowlton
5330 South 900 East
Salt Lake City, UT 84117

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: The Pines of Yellow Creek

ENGINEER: George Patience
DMJM Coon King & Knowlton
5330 South 900 East
Salt Lake City, UT 84117

OWNER: West Evanston Development
667 E. 100 S.
Salt Lake City, UT 84102

WATER QUALITY DIVISION REFERENCE NUMBER: 83-304RR

REVIEWING EVALUATOR: Jack Bedessem *JB*

DATE OF REVIEW: October 7, 1983

ACTION: Not Authorized.

COMMENTS: Mr. Albert Berreth is no longer with this department, therefore I will be handling the final review of these plans and specifications. Before final approval can be given to these plans the following items still must be addressed:

1. If you plan to use the Wyoming Public Works Standards as construction specifications, please note this on the appropriate plan sheets.
 2. Profile drawings of the sewer lines are still needed. The drawings should include water line crossing locations.
 3. Fire flow analyses submitted - ok.
 4. This permit will only cover Phase I development (E4).
 5. Letter from City of Evanston received - ok.
 6. Ok.
 7. Three sets of profile drawings are needed. - Item 2.
- If you have any questions please feel free to contact me.

JB:mpm

ABC

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: The Pines of Yellow Creek

ENGINEER: George Patience
DMJM Coon King & Knowlton
5330 South 900 East
Salt Lake City, UT 84117

OWNER: West Evanston Development
667 E. 100 S,
Salt Lake City, UT 84102

WATER QUALITY DIVISION REFERENCE NUMBER: 83-304R

REVIEWING ENGINEER: Albert J. Berreth *ajb*

DATE OF REVIEW: August 23, 1983

ACTION: NOT AUTHORIZED

COMMENTS: Before your permit can be issued the following items as listed in the June 15 review must be addressed. Please note Mr. Bosley's letter has not been received.

1. Complete specifications are needed, You may note the use of the Wyoming Public Works Standard Specifications on the plans.
2. Profile drawings are required.
3. O.K.
4. It is assumed that the permit is to cover only the currently proposed improvements.
5. Please provide a letter from the City.
6. See Sheet E4.
7. Same on any revisions.

cc: Wayne Shepherd
File (5)

AC

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: The Pines of Yellow Creek

ENGINEER: George Patience
DMJM Coon King & Knowlton
5330 South 900 East
Salt Lake City, UT 84117

OWNER: West Evanston Development
667 E. 100 S.
Salt Lake City, UT 84102

WATER QUALITY DIVISION REFERENCE NUMBER: 83-304.

REVIEWING ENGINEER: Albert J. Berreth *ajt*

DATE OF REVIEW: June 15, 1983

ACTION: Not authorized.

COMMENTS: The permit is being held pending resolution of the following items:

1. Complete specifications are needed. It is acceptable to use the Wyoming Public Works Standard Specifications.
2. Profile drawings are needed. Waterline profiles can be eliminated provided the site is generally level with no humps and valleys.
3. A fire flow analysis is needed. Twenty psi residual pressure is required.
4. Proposed and future utilities may be permitted together however, you should be aware of the fact that a construction permit has a two year duration which may be extended up to five years.
5. Should the City have any particular problems with the plans, these will need to be addressed prior to permit issuance.
6. Please explain the S & W's.
7. Three sets of final plans are needed.

AJB:crb

cc: Wayne Shepherd
File (5)

ABC

Korwa

MEMORANDUM

TO: File, Amoco Production Company Elk Basin Waste Fluids
Disposal Pond, Park County

FROM: Steve Gerber *SG*

SUBJECT: Inspection of Reclamation of Wastewater Pond, Permit 83-306RR

DATED: January 30, 1986

On January 20, 1986 I visited the site of the above referenced wastewater pond. Reclamation of the pond has been completed.

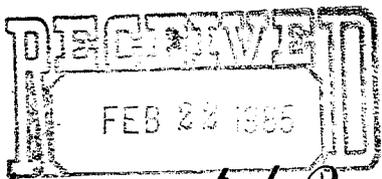
SG/jw



Chery



THE STATE OF WYOMING



ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

February 7, 1985

Amoco Production Co.
P. O. Box 569
Powell, WY 82435

Attention: Ronald Christensen

RE: Elk Basin - Wastewater Pond
#83-306RR

Dear Mr. Christensen:

This Department has completed our review of the information submitted on possible groundwater contamination from the referenced wastewater pond. Your documentation is considered adequate proof that contamination of groundwater is not probable. Therefore, we concur with your proposed abandonment plan for the wastewater pond.

Very truly yours,

Ed Baruth, P.E.
Northwest District Supervisor

EB:dcn

cc: Jake Strohman, DEQ/WQD Cheyenne
File

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

MEMORANDUM

TO: A.J. Mancini, Groundwater Control Supervisor
FROM: Matthew M. Langenfeld, Groundwater Compliance Specialist *MML*
DATE: January 2, 1985
SUBJECT: Amoco Elk Basin Drill - Hole results

On August 10, 1984, I sent a Memorandum to Ed Baruth the Northwest District Supervisor in Lander. In this Memorandum it was pointed out that the subsurface investigations provided were inadequate. Ed Baruth then asked Amoco to conduct further investigations.

I have reviewed the results of these investigations and feel that seepage from the Elk Basin Wastewater Pond pose no threat to groundwater. A test hole was drilled to a depth of 100 feet by air drilling, no fluids were encountered. A confining layer of grey shale exists at a depth of 21 feet to the bottom of the hole. This impermeable layer should provide an effective geologic barrier preventing groundwater movement in the area and confining the contamination to this area.

Roald Christensen of Amoco has requested abandonment of the wastewater pond. I feel that this investigation satisfies all of our concerns and that abandonment of the pond would be appropriate.

cc: Ed Baruth

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

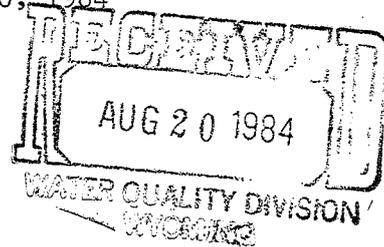
Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

August 10, 1984



Amoco Production Co.
P. O. Box 569
Powell, WY 82435

Attention: Mr. Ronald Christensen

RE: Amoco Elk Basin Wastewater Pond

#84-306RR

83-

Dear Mr. Christensen:

I just received the attached memorandum from the Department of Environmental Quality groundwater support group in Cheyenne. Please accept this review as our response to your August 1, 1984 report. As you will note, this department takes exception to several specific items and still requests that you show that pond seepage--including past seepage material--is not a threat to the groundwater in the vicinity of the pond.

Please feel free to contact Mr. Matt Langerfeld, Mr. Tony Mancini (both at 777-7781), or me for further information.

Sincerely,

Ed

Ed Baruth, P.E.
Northwest District Supervisor

EB:dcn

Enclosure

cc: Tony Mancini, DEQ/WQD Cheyenne
Matt Langenfeld, DEQ/WQD Cheyenne/
Jake Strohman, DEQ/WQD Cheyenne ✓
File



Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: Ed Baruth, Northwest District Engineer

FROM: Matthew M. Langenfeld, Groundwater Compliance Specialist *mml*
A.J. Mancini, Groundwater Control Supervisor

DATE: August 8, 1984

SUBJECT: Response to Amoco's Elk Basin Wastewater Pond Report of August 1, 1984

There is no surface water in the area and no seepage points within a reasonable distance from the wastewater pond have been reported by Amoco. Therefore, we believe that any threat to surface water is minimal, or non-existent at this time.

However, we are not convinced that Amoco has completely addressed the questions asked of them in your letter of May 23, 1984. The water well in Section 16, T57N, R99W is 5 miles from the wastewater pond and due to the distance involved the geologic data is not very relevant to the specific area of the pond location. This information does not necessarily show that a geologic barrier to groundwater movement exists in the area of the wastewater pond as it may in the area of the water well. Wells 3 and 4 in the vicinity of the pond, which always have been reported to be dry are upgradient, only 14 feet deep, and do not prove that natural groundwater does not exist in the area of review. Water in wells #1, 2 and 5 is found at 23, 17 and 27 feet respectively.

It is preferred that Amoco Production Company show that pond seepage is contained and a threat to groundwater in the vicinity of the pond does not exist.



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

May 23, 1984

Amoco Production Co.
P. O. Box 569
Powell, WY 82435

Attention: Ronald Christensen

RE: Amoco - Elk Basin Fluids Disposal
Pond As-Built Application #83-306R

Dear Mr. Christensen:

Thank you for your recent letter notifying this department that you abandoned the Elk Basin Waste Water Pond on March 5, 1984. Members of our groundwater support group and district engineering staff have formalized our method for handling this abandonment. We will still require that you describe any contamination of ground or surface waters. (Please see attached copy of our November 15, 1983 review.) Naturally, we will not require you to plan for long term containment of the seep, as your described "empty and abandonment program" ends that problem.

Please feel free to contact this office if we can provide any assistance in resolving this matter.

Yours truly,

A handwritten signature in dark ink, appearing to read "Ed".

Ed Baruth, P.E.
Northwest District Supervisor

EB:dcn

Enclosure

cc: Tony Mancini, DEQ/WQD Cheyenne
Jake Strohman, DEQ/WQD Cheyenne
File

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Elk Basin Wastewater Pond

ENGINEER: Gene Roccabruna
Tripac Construction Company
346 Greybull
Greybull, WY 82426

OWNER: Amoco Production Co.
P. O. Box 569
Powell, WY 82435
Attn: Don Duhrkopf

WATER QUALITY DIVISION REFERENCE NUMBER: #83-306R

REVIEWING ENGINEER: Tony Mancini; Ed Baruth *Ed*

DATE OF REVIEW: November 15, 1983

NOTATION: Not authorized.

COMMENTS: First, please accept this office's apology for the length of time involved in this review. Mr. Frank LaBarge of our staff has left our employ and until recently we have been understaffed.

1. After review involving our DEQ groundwater staff, Cheyenne DEQ supervisory personnel, EPA support, and Lander DEQ personnel, the following observations and conclusions are made.
 - a. According to the applicant, only localized groundwater was encountered. We note that you mention only lack of groundwater, to 50 feet below the ground surface.
 - b. Two monitor wells contain fluid indicating that the pond seeps.
 - c. Fluid has also been found in a thirty foot deep test hole approximately fifty feet distant from one of the fluid-bearing monitor wells.
 - d. The applicant has not demonstrated or documented fully that pond seepage is not a threat to existing subsurface water resources and further that localized topography will not cause materials to break out at the surface and become a threat to surface waters.

Conclusion: The applicant needs to show that the pond seepage is contained to the degree which precludes contamination of ground or surface waters. If pond seepage is to be left as is, applicant must show that a threat due to pond seepage does not exist. This may involve additional geological information and possible identification of any natural confining layers.

EB:dcn

AC

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

CERTIFIED MAIL #P 289 233 564

PROJECT: Elk Basin Wastewater Pond

ENGINEER: Gene Roccabruna
Tripac Construction Company
346 Greybull
Greybull, WY 82426

OWNER: Amoco Production Co.
P. O. Box 569
Powell, WY 82435
Attn: Don Duhrkopf

WATER QUALITY DIVISION REFERENCE NUMBER: #83-306

REVIEWING ENGINEER: Francis LaBarge; Tony Mancini

DATE OF REVIEW: July 18, 1983

ACTION: "As Built" - Not Approved

COMMENTS: A review of the "as built" information and plans on the subject disposal pond has been completed by the District Office and the Groundwater Section. It has been determined the following additional information is needed for the Groundwater Section to complete their review of the project:

1. A copy of the drill hole log for Well #5 is required. The ground elevation and total depth of the well should be included.
2. We are requesting that each of the 5 monitoring wells again be inspected to see if they have any fluid in them. For each well which does, please state what the fluid level is.
3. An analysis of the fluid in any well which has fluid in it is required. The analysis of any fluids in the wells should be detailed enough so it can be distinguished if the fluid is similar or dissimilar to the fluid in the pond.

Upon receipt of this information, the Groundwater Section will complete their review and you will be informed of their findings. In addition, please be advised the EPA has been asked to determine if the material being disposed of in the pond is classified as a hazardous material. As of this date, we are still waiting for a reply. If it is determined to be hazardous, the fluid will have to be removed from the pond and transferred to an approved hazardous materials disposal site of which there are none in Wyoming. If this is the case, Amoco will still receive departmental approval to operate the pond, assuming all requirements are met; however, the types of fluids in question will not be allowed to be disposed of in the pond or in Wyoming.

Ac

July 18, 1983

Page Two

The following comments are from the District Office:

4. Please provide an exact description of the types of fluids Amoco is requesting permission to dispose of in the pond. Please revise the "Application for Permit to Construct . . ." form (Question #4) to state this. Upon authorization of the facility, Amoco will only be given approval only for disposal of those fluids specifically called out on the application that are not defined as hazzardous.

5. A detail of the monitoring well construction is required. Also include all material specifications and show the size and interval of the pipe slots.

It has been determined the following items need to be shown on the plans and then constructed in the field after authorization is received.

6. The plans need to show the location of the proposed fence and gate. A fence specification is also required.

7. The plans should show warning signs located on each side of the facility. A warning sign detail is required.

8. The inlet area of the pond needs to be upgraded to prevent any more erosion. Please provide a detail of how this will be done.

Because the facility was constructed without authorization from this department and is in use, a response to this review letter is required within thirty (30) days of its receipt. Any questions about comments 1 through 3 should be directed to Mr. Tony Mancini, Groundwater Control Supervisor, at our Cheyenne Office. Questions concerning any other comments can be directed to the Lander District Office.

FL:dcn

cc: Tony Mancini, Cheyenne DEQ/WQD

6-4-87

To File

~~John~~

From: Phil



Pathfinder Lucky MC # 83-307
(as-built plans)

appears to have lead-ended & ^{been} superseded.
Sufficient information does not seem to have been submitted.

No permit was issued or denied. This file
should be reviewed and appropriate mitigation requirements
can be formulated.

Recommend deletion of this permit application

from the ^{IPS} tracking system

(Record as application

withdrawn as of

This date)

Put copy of this memo in running
file.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Pathfinder Lucky Mc Mine

ENGINEER: Hydro Engineering
770 E. Magnolia
Casper, WY 82604
Attention: Mr. G. L. Hoffman

OWNER: Pathfinder Mines Corporation
Lucky Mc Mine
P. O. Box 831
Riverton, WY 82501
Attention: Mr. E. L. Nugent

WATER QUALITY DIVISION REFERENCE NUMBER: #83-307R

REVIEWING ENGINEER: ^{Ed} Ed Baruth; Kate Laudon

DATE OF REVIEW: May 30, 1984

ACTION: Not authorized.

COMMENTS:

1. Thank you for the as-built plans and specifications received by this office on April 2, 1984 (your letter dated March 30, 1984). We do ask that you submit more details of the pumpback and monitoring well system you installed. Specifically, could you supply us details of:

- a) Your typical pumpback well;
- b) Your typical monitoring well;
- c) Pump specifications and curves; and,
- d) Materials specifications on the piping lines and depth of bury.

Further, it appears the Water Quality Division could provide clarification on our procedures concerning as-built plan and specification approval and permits to construct.

Before wastewater treatment and collection systems are constructed in Wyoming, Wyoming Statute 35-11-301 requires that a permit from the Department of Environmental Quality - Water Quality Division be applied for and issued. Should such improvements be made prior to receiving such a permit, the party installing such facilities is technically in violation of state law. This division has adopted procedures which allow after-the-fact approval of such installations. Whether questioned installations are installed under emergency conditions, or under other circumstances, the Water Quality Division does ask that complete plans and specifications detailing all improvements be submitted. Should something be out of order or the submittal incomplete, the Water Quality Division continues a dialogue with the entity responsible for the construction with the intent of handling the situation without resorting to legal action. When the wastewater system in question has been adequately described to meet applicable state regulations, and qualifies for a permit to construct, an approval letter is issued for the "as-built" improvements. All future improvements to your

AC

May 30, 1984

Page Two

wastewater collection and treatment systems should proceed directly through the permit to construct procedure (find attached, application forms).

2. The NRC, Department of Environmental Quality/Land Quality Division and Department of Environmental Quality/Water Quality Division held a meeting on May 25, 1984 in Cheyenne to discuss areas of joint concern. In the course of that meeting, the NRC indicated that they would be undertaking a study of groundwater contamination at the Pathfinder Lucky Mc Mine site this summer. This information is important to this division because we are concerned with apparent groundwater contamination to the north of well T1-12. We are willing to delay a request to you for further information until the NRC, Pathfinder Lucky Mc Mine, and DEQ have a chance to review the results of the NRC study. If this is not acceptable to your company, please contact this division with an appropriate alternative.

3. As originally requested in our June 14, 1983 letter to your company, our division still requests that you submit copies of reports and other pertinent information directly to us. We wish to acknowledge your timely submittal of exhibits 3-1, 3-2, 4-1, 4-2, and 5-1 received on April 2, 1984.

EB:dcn

Enclosure

6-15-83



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

June 14, 1983

Mr. E. L. Nugent
Pathfinder Mines Corporation
Lucky Mc Mine
P.O. Box 831
Riverton, WY 82501

RE: Pollution Control System for Wastewater Seepage, DEQ/WQD Ref. No. 83-307

Dear Mr. Nugent:

This letter is to inform you that the Division has received the letter dated May 5, 1983 and the accompanying permit to construct application form.

In your letter, you explained the position of Pathfinder Mines Corporation. The following will provide clarification and provide the Division's position:

W.S. 35-11-301(a)(iii) requires a permit to construct for the pollution control system. Pathfinder does not have a permit.

The Division has agreed, as part of the conference and conciliation phase of resolving the violation, to allow Pathfinder to gather information necessary to furnish "as built" plans and specifications and other subsurface data as well as water quality information to determine the effectiveness of the system. This information as well as the affect of the pumpback system on the tailings pond needs to be forwarded to the Water Quality Division this fall.

The Division did not agree to get a copy of the report from NRC. Pathfinder Mines Corporation is required to submit the necessary information to obtain a permit to construct. The state has no obligation to get this permit for them.

Please contact me if you have any questions.

Sincerely,

Jake Strohman, P.E.
Engineering Control Supervisor

JS/nc

cc: Tony Mancini, DEQ/WQD, Cheyenne

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-308

Mary Benson Residences
(Name of Facility)

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

Mary Benson

1977 N. 15th

Laramie, WY 82070

to construct, install, or modify a commercial subsurface wastewater disposal facility for two residences facility according to the procedures and conditions of the application No. 83-308. The facility is located in South Knoll Subdivision, Section 20, T15N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

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

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

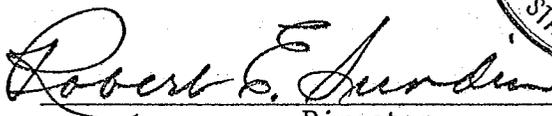
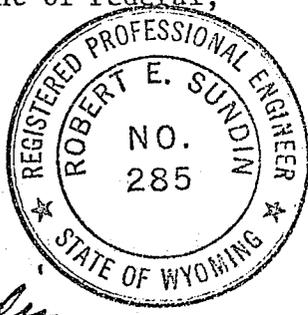
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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

AUTHORIZED BY:



Administrator E. # 1479
Water Quality Division
June 17, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: Donald R. Lamb
P.O. Box 3623
Laramie, WY 82071

6-29-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-309

Jehovah's Witness Church
(Name of Facility)

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

Jehovah's Witness Church

1517 Idaho

Rawlins, WY 82301

to construct, install, or modify a subsurface sewage treatment and disposal facility according to the procedures and conditions of the application No. 83-309. The facility is located in Section 18, T21N, R87W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

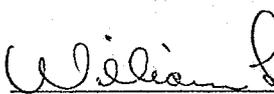
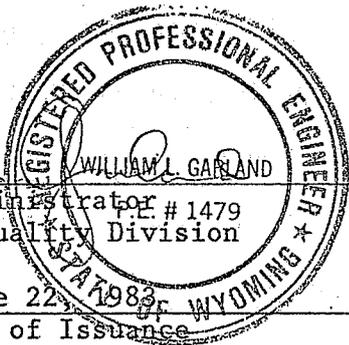
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

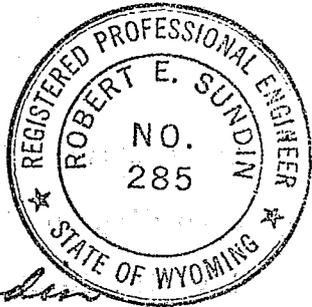
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
June 22, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

cc: Rex A. Behrends
Behrends' Engineering & Surveying
1915 Inverness Blvd.
Rawlins, WY 82301

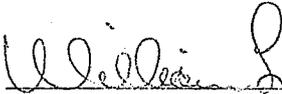
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

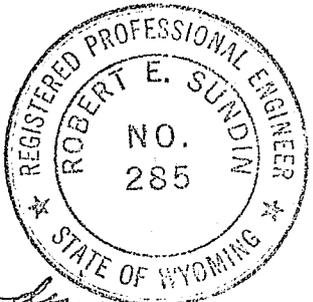
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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 E. GARLAND
Administrator
Water Quality Division #1479



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


June 27, 1983

Date of Issuance

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

FL:dcn

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Harvey's Mobile Home Village

ENGINEER: Jerald Crews
Cardinal Engineering Company
2334 Rose Lane
Riverton, WY 82501

OWNER: Duane Harvey
Box 329
Thermopolis, WY 82443

WATER QUALITY DIVISION REFERENCE NUMBER: #83-310

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: June 17, 1983

ACTION: Not authorized.

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

General

1. The Application for Permit to Construct . . . form is incomplete. Specifically, the volume of wastewater needs to be stated, question number 5 needs to be completed and the State Engineer's permit number for the Town of Thermopolis' water source needs to be included.

Sewage Collection System

2. As required by Chapter 10, Section 12.22 of the "Recommended Standards for Sewage Works, Latest Edition with 1973 Changes", sewer line profiles are required; therefore, please provide such for this project. Be sure to show the water line crossing in the sewer line profile.

3. A drop pipe will be required where the proposed sewer line connects to the existing manhole. This should be noted on the plans.

Water Distribution System

4. What is the anticipated maximum and minimum pressure in the proposed water distribution line?

5. The water riser must terminate 4 inches above the ground and be protected by a concrete apron or other equivalent method.

ABC

Review of Plans and Sprcifications
Harvey's Mobile Home Village #83-310
June 17, 1983
Page Two

6. A note is needed on the plans stating that the waterline is to be laid on a uniform grade.
7. The water meters need to be specified.
8. It is required that water and sewer risers be located a minimum of 5 feet apart as measured horizontally. Although it appears from the plans they will be, it would be a good idea to include a note to this effect on the plans so there won't be any question.

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

FL:dcn

7-6-83

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 83-311R
SEE SPECIAL CONDITION

Getty Oil Co.
(Name of Facility)

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

Getty Oil Co.

P.O. Box 3360

Casper, WY 82602

to construct, install, or modify a septic tank - leach field system to serve a mancamp facility according to the procedures and conditions of the application No. 83-311R. The facility is located in SW1/4 Section 5, T18N, R120W (Narrows West 5-11 Drill Site) in the County of Uinta, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

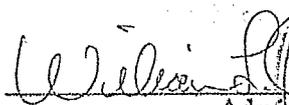
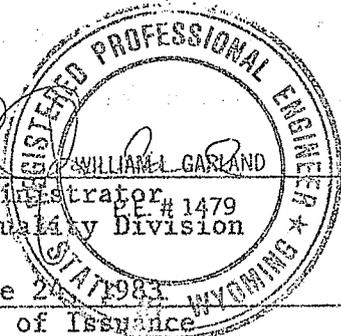
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

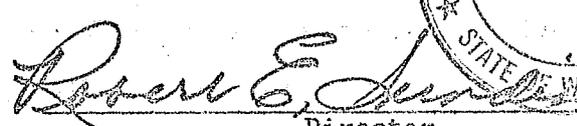
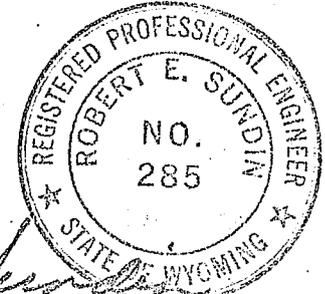
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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
Administrator
Water Quality Division
P.E. # 1479
June 21, 1983
Date of Issuance



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

Condition to Permit to Construct

The permittee shall notify the Uinta 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:

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

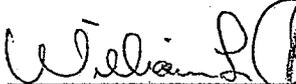
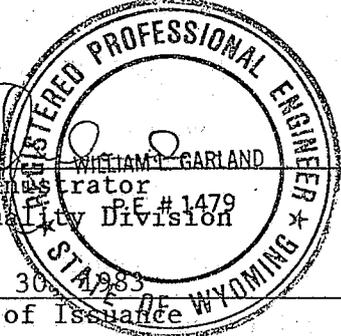
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

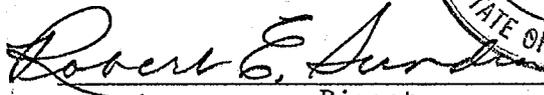
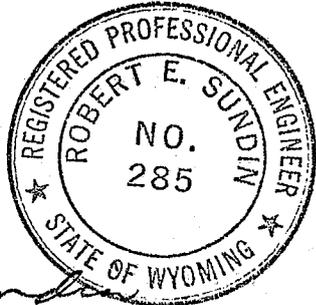
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State 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 GARLAND
Administrator
Water Quality Division
P.E. # 1479
June 30, 1983
Date of Issuance



Director
Dept. of Environmental Quality


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

xc: Detmer R. Knapp
Knapp & Associates Engineering
P.O. Box 9859
Casper, Wyoming 82609



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

Date December 2, 1983CERTIFIEDMr. R. C. ScharpKerr-McGee Coal CorporationCaller Box 3013Gillette, Wyoming 82716Dear Mr. Scharp :

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

Facility name:	<u>Jacobs Ranch Mine Flood Dike Containment Structure</u>
DEQ/WQD Reference Number:	<u>83-313</u>
Engineering Consultant:	<u>Thomas Gibson, Kerr-McGee Coal Corporation</u>
DEQ/WQD Review Engineer:	<u>Tom Mueller</u>
Date of DEQ/WQD Review:	<u>July 18, 1983</u>

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

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

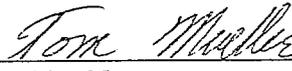
The application will be resubmitted within 30 days.

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

Other remarks _____

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

Sincerely,


Tom Mueller, District Supervisor
Water Quality Division

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

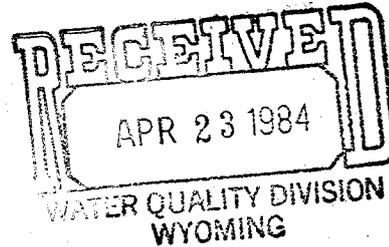
2161 COFFEEN AVENUE,
SUITE 301

SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

April 20, 1984

Mr. Darryl Maunder
Kerr-McGee Coal Corporation
Jacobs Ranch Mine
Caller Box 3013
Gillette, Wyoming 82716



Re: 83-313R

Dear Darryl:

I have received from Doyl Fritz of Western Water Consultants information on the swale left by removal of the flood dike between Pit No. 1 and the North Prong of Little Thunder Creek. The information is sufficient to satisfy my review questions of July 18, 1983. No Permit to Construct will be issued for the system since it is actually a part of the backfill and was never truly constructed. You may, however, consider it approved.

Please call me if you have any questions.

Yours truly,

Tom Mueller

Tom Mueller
District Supervisor

TM:ls

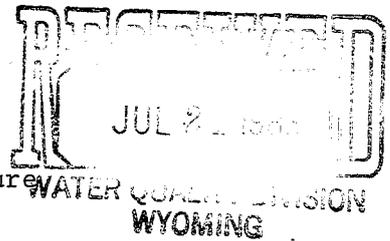
Enclosures

xc: Norma Coulson
Doyl Fritz
Nick Tiffany

Norma

REVIEW OF PLANS AND SPECIFICATIONS

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



PROJECT: Jacobs Ranch Mine
Flood Dike Containment Structure

ARCHITECT OR ENGINEER: R. C. Scharp
Kerr-McGee Coal Corporation
Caller Box 3013
Gillette, Wyoming 82716

WATER QUALITY DIVISION
REFERENCE NUMBER: 83-313

REVIEWING ENGINEER: Tom Mueller *TJM*

DATE OF REVIEW: July 18, 1983

ACTION: Not Authorized for Construction. See comments.

COMMENTS:

1. The design calculations referred to in the cover letter were apparently omitted from the submittal. Please indicate how the total runoff of 1.5 ac-ft indicated on the drawing was arrived at.
2. In the future, please send four (4) copies of all plans, specifications, and supporting materials when submitting Applications for Permits to Construct.

Water Quality Division
Groundwater Section
Permit Application Review

Returned
6-22-83

Application Number 83-313

Date Submitted For Review 6/20/83

Name and Location of Facility Kerr-McGee Jacobs Ranch
Mine, runoff control, sec. 15-43N-
70W, 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 ajm

Title _____

Date 6/21/83

Approved _____
(Date)

ajm
(Signed)
Groundwater Control Supervisor

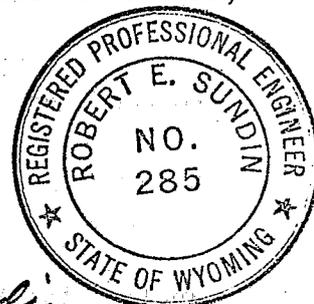
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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:



William J. Garland

WILLIAM J. GARLAND
Administrator
Water Quality Division
PE # 1479
July 1983

Date of Issuance

Robert E. Sundin

Director
Dept. of Environmental Quality

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

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

6-29-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-315
SEE SPECIAL CONDITION

B & L Industrial Acres
(Name of Facility)

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

Casper Board of Public Utilities

200 N. David

Casper, WY 82601

to construct, install, or modify a potable water mains facility according to the procedures and conditions of the application No. 83-315. The facility is located in Section 28, T34N, 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.

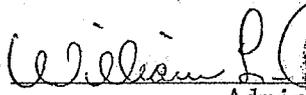
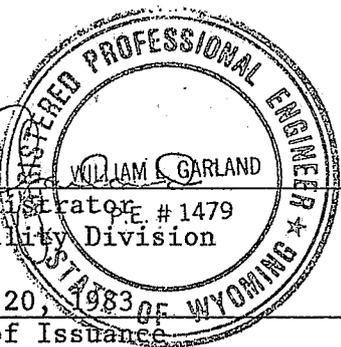
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

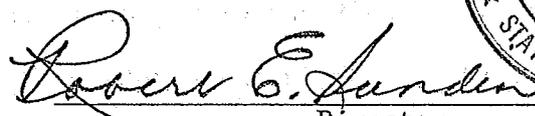
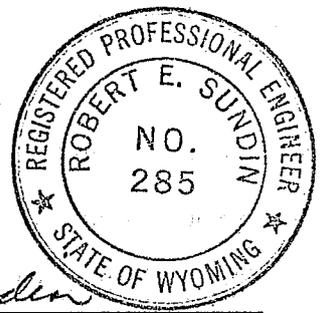
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

June 20, 1983
Date of Issuance


ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

cc: Detmer R. Knapp
Global Engineering & Land Surveying
Box 532
Casper, WY 82601

Condition to Permit to Construct

A fire hydrant or air release valve shall be located at all high points of the water main.

7-21-83

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 83-316R
SEE SPECIAL CONDITION

Hog Park Wash Water Ponds
(Name of Facility)

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

Cheyenne Board of Public Utilities

P.O. Box 1469

Cheyenne, WY 82003-1464

to construct, install, or modify a temporary emergency containment dam for gravel wash water ponds facility according to the procedures and conditions of the application No. 83-316R. The facility is located in Sections 5, 6, 7 and 8, T12N, R84W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

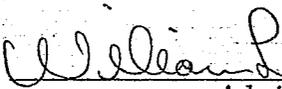
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

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

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

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

AUTHORIZED BY:


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

July 12, 1983
Date of Issuance


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

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

cc: Dana Bardsley
U.S.F.S.
605 Skyline Dr.
Laramie, WY 82070

Edward Nowak
Banner & Associates, Inc.
P.O. Box 550
Laramie, WY 82070

Condition to Permit to Construct

The containment of any water behind the dam shall be released as soon as the water meets the discharge permit parameters.

Review of Plans and Specifications

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

PROJECT: Hog Park Wash Water Ponds, Carbon Co.

ARCHITECT OR ENGINEER: Ed Nowak, Banner Associates, Inc.
P.O. Box 550, Laramie, WY 82070

APPLICANT: Herman Noe, Director
P.O. Box 1469, Cheyenne, WY 82003-1469

WATER QUALITY DIVISION REFERENCE NUMBER: 83-316

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

DATE OF REVIEW: June 23, 1983

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. No dimensions or elevations are provided as to the height and base of the dam.
2. No specifications are provided on the clay fill material, maximum rock size, optimum moisture content, depth of lifts, riprap size, and depth of riprap.
3. Are any seepage controls being placed on the outlet pipes?
4. The permit will carry a condition that any water behind the dike will have to be removed as soon as possible so that maximum capacity is always available. What is the plan of operation to meet this condition? Especially address winter time conditions.
5. Please provide a drawing of alternative 2 which will alleviate the culvert back-water conditions.
6. I am not familiar with the method used to calculate the runoff volume for Area 2 on page 8 of 12. The conclusion that only 0.02 inches from a 2.2 inch event will runoff appears to be quite low.

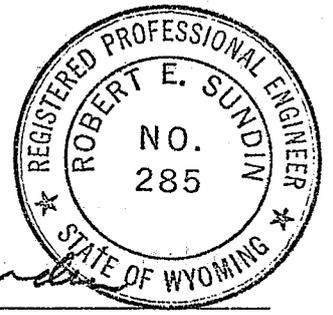
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

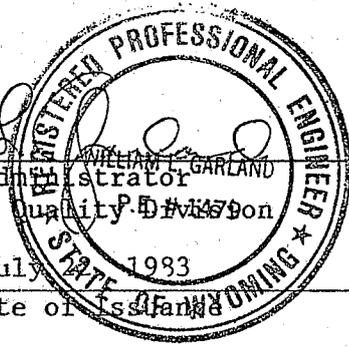
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



Robert E. Sundin

Director
Dept. of Environmental Quality



William E. Garland

Administrator
Water Quality Division
July 1983
Date of Issuance

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

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

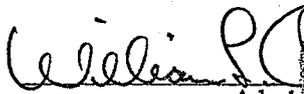
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

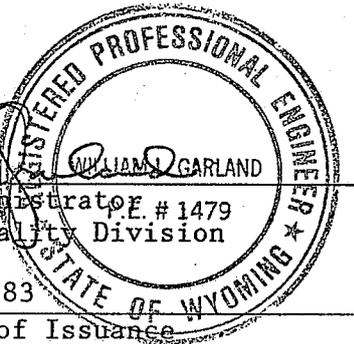
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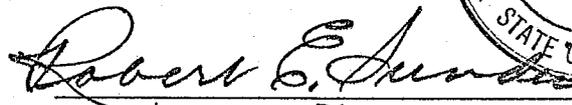
AUTHORIZED BY:



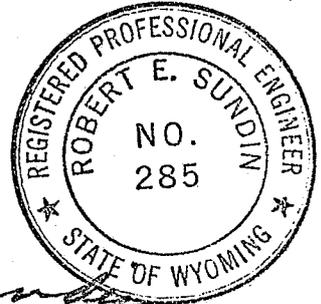
WILLIAM P. GARLAND
Administrator, E. # 1479
Water Quality Division
8/18/83

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.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: North Antelope Railroad Loop Reservoir Modifications

ARCHITECT OR ENGINEER: Curtis M. Belden
North Antelope Coal Company
P.O. Box 14009
Aurora, Colorado 80014

WATER QUALITY DIVISION
REFERENCE NUMBER: 83-318 (previously 81-15)

REVIEWING ENGINEER: Tom Mueller *TJM*

DATE OF REVIEW: July 11, 1983

ACTION: Not Authorized for Construction

COMMENTS:

1. Flow measurement appears inadequate in at least two respects:
 - Only one overflow pipe is metered, and it appears unlikely to be able to pass all flows possible less than the 10-year 24-hour storm;
 - The flow meter installed will not, unless it is of unusual design, be capable of measuring flows when the pipe is flowing less than full.
2. Where are NPDES compliance samples to be taken? They should be taken at a location where the entire discharge flow is completely mixed, undiluted by any other flow, and easily accessible.
3. Please submit four (4) copies of applications for Permits to Construct at coal mines.
4. Will any protection be provided to counteract uplift forces encountered by the structure when ice forms around the inlet pipes and reservoir level rises?

Returned
6-22-83



Water Quality Division
Groundwater Section
Permit Application Review

Application Number 83-318 (Ref. 81-15)

Date Submitted For Review 6/21/83

Name and Location of Facility North Antelope Railroad
Loop Reservoir, Sec 16-41N-70W,
Campbell Co. Sedimentation
Pond.

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 AGM

Title _____

Date 6/21

Approved _____
(Date)

AGM
(Signed)
Groundwater Control Supervisor

7-12-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-319R

Torrington - Connection to Replacement Well #3
(Name of Facility)

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

Town of Torrington

2402 East A

Torrington, WY 82240

to construct, install, or modify a municipal water distribution system facility according to the procedures and conditions of the application No. 83-319R. 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.

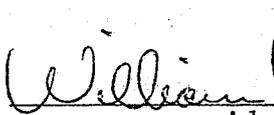
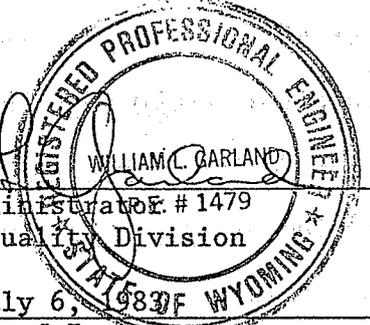
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

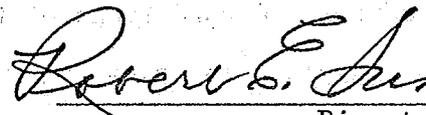
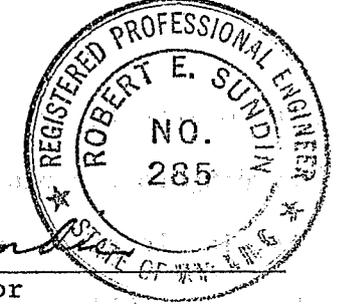
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator # 1479
Water Quality Division
July 6, 1983
Date of Issuance



ROBERT E. SUNDIN
NO. 285
Director
Dept. of Environmental Quality

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

cc: John T. Baker
Baker, Sweeney & Associates
1915 First Avenue
Scottsbluff, NE 69361

6-23-83

Review of Plans and Specifications

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

PROJECT: Town of Torrington, Connection of Replacement Well No. 3, Goshen Co.

ARCHITECT OR ENGINEER: John T. Baker, Baker Sweeney & Assoc.
1915 First Avenue, Scottsbluff, NE 69361

APPLICANT: Town of Torrington
2402 East A, Torrington, WY 82240

WATER QUALITY DIVISION REFERENCE NUMBER: 83-319

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

DATE OF REVIEW: June 23, 1983

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

Three copies of all applications are required. The plans and specifications were not signed by a registered professional engineer.

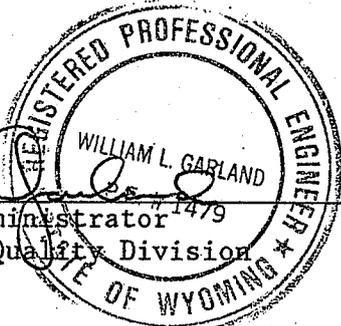
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

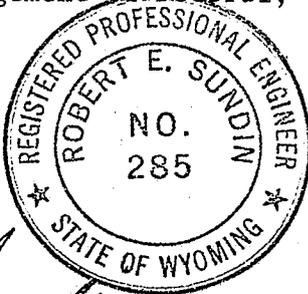
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to any applicable State law or regulation.

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
Water Quality Division
STATE OF WYOMING


Robert E. Sundin

Director
Dept. of Environmental Quality

January 3, 1984
Date of Issuance

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

* CONDITIONS ON PERMIT *

This permit is issued with the intent of providing an interim on site wastewater treatment facility until such time that treatment is available through the Town of Greybull's wastewater system.

The facility authorized by this permit can be operated until the centralized system is made available. At that time, the facility authorized by this permit will be abandoned or integrated into the centralized system in accordance with the requirements of the Facility Plan.

The permittee shall notify the representative of the Big Horn County Planning Department at least 48 hours prior to the commencement of construction 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:

Herbert Jennerich
P. O. Box 701
Worland, WY 82401

JH:dcn

MEMORANDUM

TO: Plans, 83-32ORRR

FROM: Jeff Hermansky *JH*

DATE: December 5, 1983

SUBJECT: Phone Review

I spoke with Ron McLean who is coordinating the project for the 7th Day Adventist Church.

I told Ron that although we have received a copy of the agreement between the Town of Greybull and the Church, we still need a revised site plan before the permit can be authorized.

Ron said the site plan will be sent soon.

JH:dcn

AC

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Seventh Day Adventist Church/School Complex

ENGINEER: Jerry Miller
P. O. Box 386
Basin, Wyoming 82410

OWNER: c/o Ron McLean
325 4th Ave. North
Greybull, Wyoming 82426

WATER QUALITY DIVISION REFERENCE NUMBER: #83-320RR

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: November 16, 1983

REVISION: Not authorized.

COMMENTS: The application for a "Permit to Construct" the wastewater treatment facility to serve the Seventh Day Adventist Church is still incomplete.

This office has not yet received a copy of the agreement between the Seventh Day Adventist Church and the Town of Greybull (item No. 2 of both of Francis LaBarge's previous review letters). I have tried to reach Ron McLean by phone on a number of occasions to try to resolve this, but we have been unable to connect.

I would also like to address your response to item 11 of Francis LaBarge's review letters--his request for a clear plan view of the facility.

First of all, plans and specifications are not accepted from owners--they must be signed or stamped by a professional engineer. If an engineer wants to submit plans or specifications prepared by another party, that is his choice. However, they still must bear his seal or signature; therefore, we request plans from engineers only, not owners.

Secondly, as per Frank's request for a clear plan sheet, the requirement still stands. I have reviewed the application drawings. By "piecing together" information supplied in different areas of the application forms, I have been able to determine that the proposed facility meets standards.

However, plans and specifications are not intended to serve just you and I. Their primary function is to provide the owner, contractor, and inspector with explicit direction as to what and where something is to be constructed. Therefore, I am once again requesting that a precise plan view be submitted before a "Permit to Construct" can be issued.

ABC

Review of Plans and Specifications
Seventh Day Adventist Church/School Complex
#83-320RR
November 16, 1983
Page Two

As a general reminder, the construction of any wastewater treatment facility without first securing a "Permit to Construct" is a violation of the Wyoming Environmental Quality Act. Such a violation will result in legal action being initiated against the owner.

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

JH:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Seventh Day Adventist Church/School Complex

ENGINEER: Jerry Miller
P. O. Box 386
Basin, WY 82410

OWNER: Ron McLean
325 4th Avenue North
Greybull, WY 82426

WATER QUALITY DIVISION REFERENCE NUMBER: #83-320R

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: July 13, 1983

ACTION: Not authorized.

COMMENTS: Your reply to my June 21, 1983 review letter has been reviewed. Several items remain to be resolved before a "Permit to Construct" can be authorized. Following are my findings presented in the order of the original review letter:

1. Resolved
2. A copy of the agreement between the Seventh Day Adventist Church and the Town of Greybull is required before a permit can be authorized.
3. Resolved
4. Where will the grease trap be located? If it is outside the building please show its location in the system and provide details of the trap itself. If it is inside the building, this won't be necessary.
5. Resolved
6. Resolved
7. The septic tank installation spec provided is inadequate. The spec which must be included on the plans should state: ~~"Backfill around septic tanks to be made in thin layers and thoroughly tamped in a manner that will not cause damage to the tank walls. Precast tanks are to be provided with a four (4) inch minimum sand base underneath the tank."~~

AC

Review of Plans and Specifications

Seventh Day Adventist Church/School Complex #83-320R

July 13, 1983

Page Two

8. It is required that the minimum slope of the septic tank influent line be at least 2 feet per 100 feet or 2%. Also this must be called out on the plans.

9. Resolved

10. Resolved

11. The plan view of the proposed septic system provided is of very poor quality and is not clear. Please provide a more concise drawing of the system preferably on our Plan Sheet.

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

FL:dcn

cc: Karen Boutain--Big Horn County Planning Office

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Seventh Day Adventist Church/School Complex

ENGINEER: Jerry Miller
P. O. Box 386
Basin, WY 82410

OWNER: Ron McLean
325 4th Avenue North
Greybull, WY 82426

WATER QUALITY DIVISION REFERENCE NUMBER: 83-320 *88*

REVIEWING ENGINEER: Francis LaBarge

DATE OF REVIEW: June 21, 1983

ACTION: **Not authorized.**

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

1. The plans need to be signed or stamped by the engineer.
2. The cover letter states the Seventh Day Adventist Church has an agreement with the Town of Greybull to tie into the town's sewage collection system when a line becomes available. A copy of this agreement is needed.
3. How was a daily wastewater flow of 1000 gpd arrived at? Please provide the necessary calculations.
4. Will there be any cooking facilities at the church/school complex? If so, a grease trap should be provided.
5. The application states the percolation rate is less than 10 minutes per inch. Were percolation tests actually run? If not, they must be.
6. The disposal area is calculated as follows:

464 lineal feet of perforated pipe x 2 feet wide trenches =
928 square feet

This needs to be corrected on the Check List Sheet.

7. A septic tank installation spec is required.

ABC

Review of Plans and Specifications

Seventh Day Adventist Church/School Complex #83-320

June 21, 1983

Page 2

8. The slope of the septic tank influent line needs to be shown.
9. The following separation distances need to be shown on the Plan Sheet:
 - septic tank to building and waterline
 - leach field to septic tank, building, waterline, and property lines
10. Are there any wells within 50 feet of the septic tank or 100 feet of the leach field?
11. The leach field should be shown on the Plan Sheet as it is to be constructed (i.e. with each line shown and dimensioned).

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

FL:crb

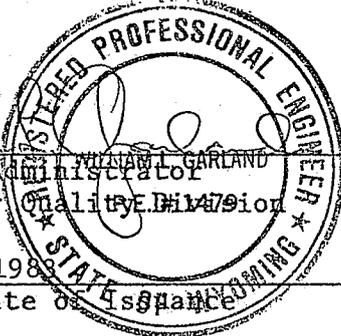
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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.

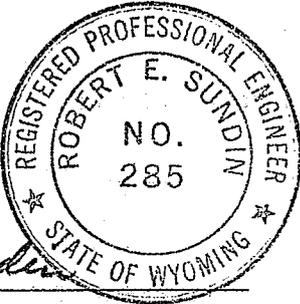
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:

A circular seal for a Registered Professional Engineer in the State of Wyoming. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER" around the top and "STATE OF WYOMING" around the bottom. In the center, it says "NO. 11479".
William L. Garland

WILLIAM L. GARLAND
Administrator
Water Quality Division
July 15, 1981

Date of Issuance

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

Director
Dept. of Environmental Quality

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

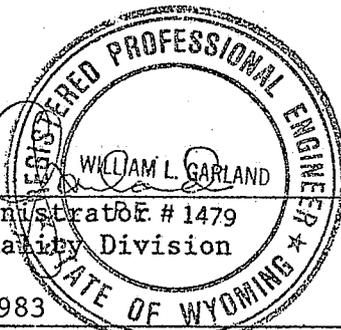
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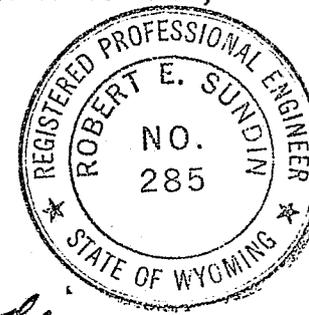
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AUTHORIZED BY:


William L. Garland
Admin. Strat. # 1479
Water Quality Division
July 20, 1983
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

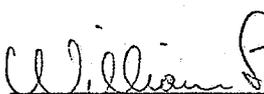
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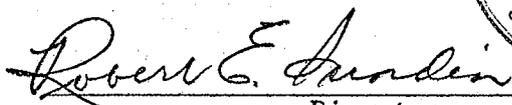
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AUTHORIZED BY:


WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
STATE OF WYOMING
July 20, 1983
Date of Issuance


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

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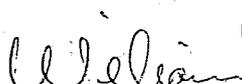
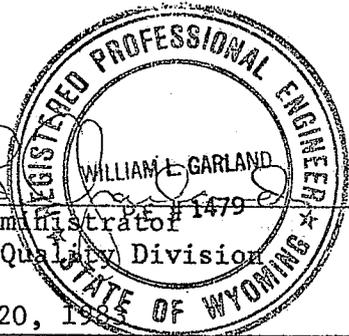
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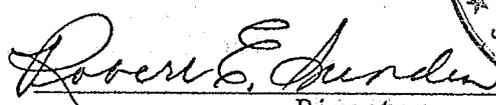
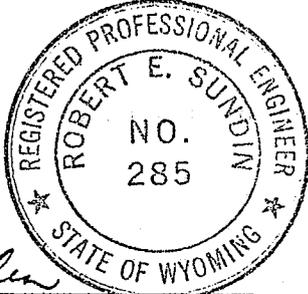
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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator 1479
Water Quality Division
STATE OF WYOMING
July 20, 1975
Date of Issuance



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

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

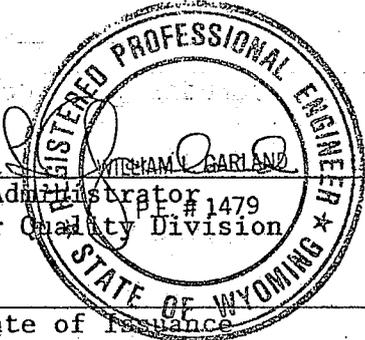
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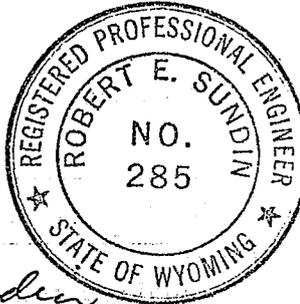
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


William V. Garland
Administrator
Water Quality Division
P.E. # 1479
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.

JH:dcn

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Water Storage Facility - Lucerne Water and Sewer District

ENGINEER: Buell, Winter, Mousel and Associates
123 West 1st Street Suite C-70-37
Casper, WY 82601

OWNER: Lucerne Water and Sewer District
Lucerne Route, Box 72
Thermopolis, WY 82443

WATER QUALITY DIVISION REFERENCE NUMBER: 83-325 (Ref. 83-21RRR)

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: June 22, 1983

ACTION: Not authorized.

COMMENTS: Additional information is necessary before the plans for the storage facility can be authorized. Please address the following questions and comments:

- 1) The enclosed application forms need to be completed and signed by the owner.
- 2) The "Ten States Standards" for water works are used by this office as the standard for our reviews. The following items need to meet the standards:
 - a) The tank overflow pipe should terminate between 12 and 24 inches above the ground surface.
 - b) A 24 mesh noncorrodible screen must be installed on the overflow pipe to prevent the entrance of birds and insects.
 - c) The roof hatch must be constructed with a lip that turns down at least two (2) inches below the top of the frame.
- 3) The roof vent needs to be detailed further. The vent must be designed to exclude any rainwater as well as birds, insects, and dust. A 4 mesh noncorrodible screen is suggested.
- 4) Is the silt stop removable? It must be removable where feasible.
- 5) Is the coating for the tank approved by the AWWA? Please send additional information on "Pota-Pox" coating.

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

JCH:crb

ABC

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-326R
SEE SPECIAL CONDITIONS

Glenrock Fundamental Baptist Church
(Name of Facility)

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

Glenrock Fundamental Baptist Church

P.O. Box 686

Glenrock, WY 82637

to construct, install, or modify a subsurface sewage treatment and disposal facility according to the procedures and conditions of the application No. 83-326R. The facility is located in Section 8, T33N, R75W in the County of Converse, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

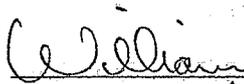
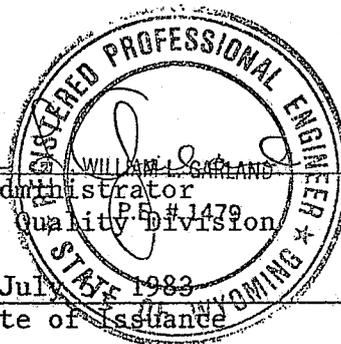
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

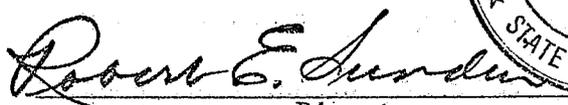
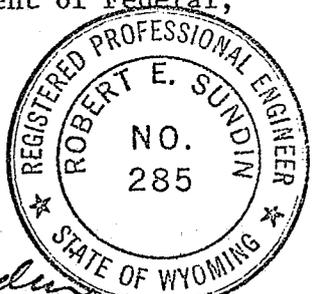
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator
Water Quality Division
PE # 1479

July 1983
Date of Issuance


ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

Conditions to Permit to Construct

1. The intent of the construction authorized by this permit is to provide facilities for the interim treatment of wastewater until such time that treatment is available through a regional wastewater system. The Glenrock Management Plan requires that treatment be provided through a regional system. The facilities authorized by this permit will be operated until services are available through the approved regional system. At that time these facilities will be abandoned or integrated into the regional system in accordance with the requirements of the Facility Plan.
2. The permittee shall notify representatives of the Converse County Health Department of the estimated day construction will commence and the estimated day of completion of this project. Inspection of the installed system is required prior to backfilling. The authorized representative in your area can be contacted at the following address:

Chuck Higgins, County Sanitarian
Converse County Health Department
Box 1303
Douglas, WY 82633
Telephone: 358-2536

cc: David D. Scott, P.O. Box 2065, Glenrock, WY 82637

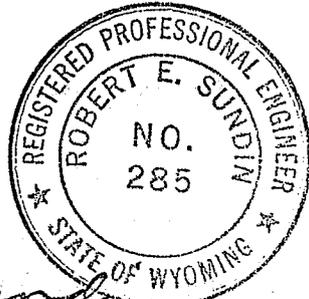
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

Adminis Per #0479
Water Quality Division
July 1988

Date of Issuance

Robert E. Sundin

Director
Dept. of Environmental Quality

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

xc: Scott Engineering
P.O. Box 2097
Gillette, WY 82716

7-6-83

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 83-328R

SEE CONDITION OF PERMIT

IRON ROCK WASTEWATER FACILITY
(Name of Facility)

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

Emily F. Stevens
P. O. Box 2828
Jackson, WY 83001

to construct, install, or modify a sewage collection system, septic tank, disposal
bed and appurtenances

_____ facility according to the procedures and conditions of the

application No. 83-328R. The facility is located in _____

Sec. 24, T41N, R117W

_____ in the County of Teton,

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

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

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

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

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

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

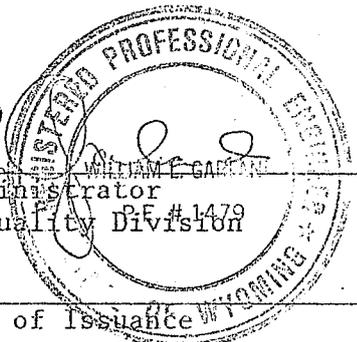
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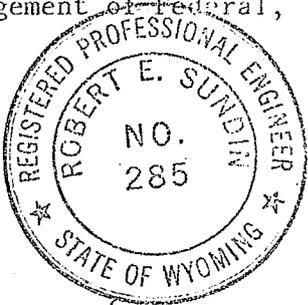
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AUTHORIZED BY:


WILLIAM E. GARRISON
Administrator
Water Quality Division
P.E. # 1479



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


June 27, 1983

Date of Issuance

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

CONDITION OF PERMIT

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

Joe Chalfant
Teton County Sanitarian
P. O. Box 1727
Jackson, WY 83001

MEMORANDUM

TO PLANS: Iron Rock Wastewater Facility
#83-328

FROM: Francis LaBarge *FL*

DATE: June 23, 1983

SUBJECT: Plan Review

On June 23, 1983, I conducted a review of the subject plans. I called the engineer, Bob Ablondi, and informed him the following items need to be addressed before a construction permit can be issued:

1. The sewage collection line to the upper townhouse scales off to 190 feet. Since the line is longer than 150 feet, a manhole is required at end in place of the proposed cleanout.
2. The percolation rate ^{of the} elevated leach field fill material needs to be specified.
3. The plans need to call for the surface of the elevated leach field to be revegetated.
4. Four copies of the revised plans are required.

No review letter was sent as per Mr. Ablondi's request.

FL:crb

AC

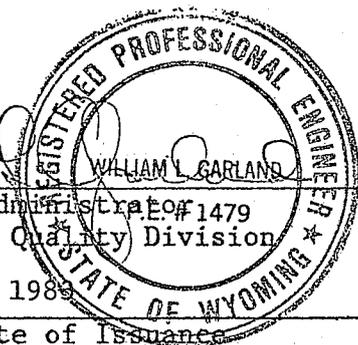
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AUTHORIZED BY:


William L. Garland

William L. Garland
Administrator #1479
Water Quality Division
STATE OF WYOMING
July 20, 1988

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.



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

HERSCHLER BUILDING

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

May 16, 1986

Exxon Company USA
P.O. Box 1600
Midland, TX 79702

To whom it may concern:

Your statewide permit number 83-330R, for small wastewater facilities has expired. If you intend to construct such facilities it will be necessary to renew your permit. Construction of facilities without the required permit is a violation of W. S. 35-11-301 (a) (iii).

Sincerely yours,

A handwritten signature in cursive script that reads "Lawrence Robinson".

Lawrence Robinson
Engineering Supervisor

LR/nc

83-330R



THE STATE OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality
Water Quality Division

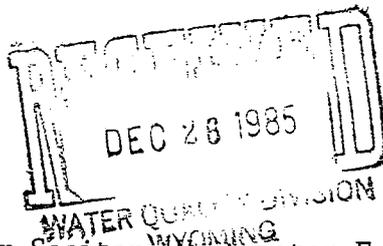
210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

December 23, 1985

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



RE: Statewide Permits for Temporary Sanitary Wastewater Facilities

Dear Mr. Tibbitts:

In an effort to clarify the permitting of Exxon temporary sanitary wastewater facilities in the State of Wyoming, I felt it necessary to draft this letter. Exxon's permit for temporary sanitary facilities at drilling sites no. 83-330R expired September 14, 1985. Exxon's permit no. 84-33 for temporary wastewater disposal facilities has been replaced by permit no. 85-514R at your request. Therefore, the only active permit for temporary construction of wastewater disposal facilities in Wyoming is no. 85-514R. Please be advised that this permit is active only until October 29, 1987 and may be renewed before that date.

Sincerely,

Bill Locke, P.E.
Water Quality Engineer

BL/jw

Copy: Norma Coulson, DEQ/WQD, Cheyenne

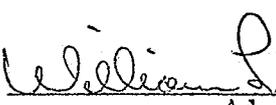
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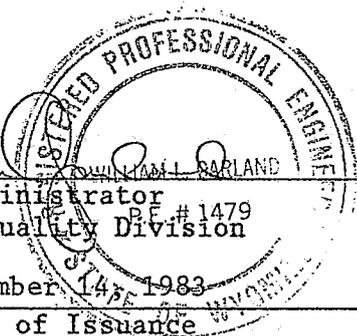
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



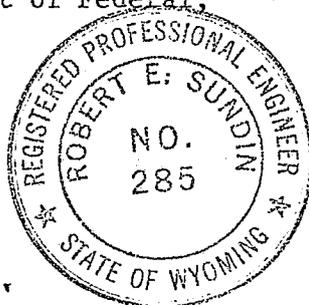
William J. Barland
Administrator
Water Quality Division
P.E. # 1479
September 14, 1983

Date of Issuance





Robert E. Sundin
Director
Dept. of Environmental Quality



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

* CONDITIONS OF PERMIT *

1. The permit is valid for temporary construction camps only. Temporary being defined as one year or less. If a proposed construction camp is to be operated for more than one year, that camp must obtain authorization from this department.
2. The permittee shall notify the appropriate DEQ/WQD office before any system is installed. Upon abandoning the site, the system shall be salvaged and the appropriate DEQ/WQD office notified.

JB:mpm

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

* CONDITIONS *

Permit No. 83-331

LLOYD HOOPES WASTEWATER DISPOSAL FACILITY
(Name of Facility)

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

LLOYD HOOPES
FAIRVIEW, WY 83119

to construct, ~~INSTALL, OR MODIFY~~ an addition line to the existing septic-tank
leachfield system

_____ facility according to the procedures and conditions of the
application No. 83-331. The facility is located in _____
Sec. 10, T31N, R119W

_____ in the County of LINCOLN,

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

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

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

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

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

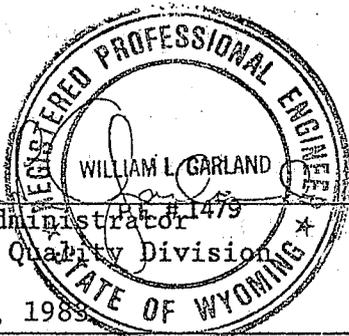
ing working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

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

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

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

AUTHORIZED BY:

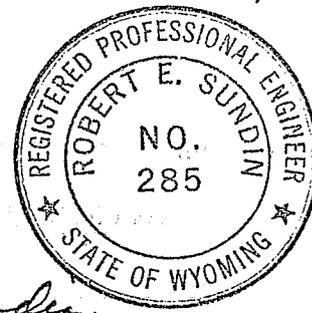


William L. Garland

Administrator
Water Quality Division

July 20, 1983

Date of Issuance



Robert E. Sunden

Director
Dept. of Environmental Quality

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

CONDITIONS OF PERMIT

1. If the existing system fails as a result of the additional connection, this office must be notified immediately and modifications made to the system that comply with the Wyoming Water Quality Rules and Regulations.

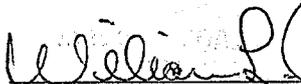
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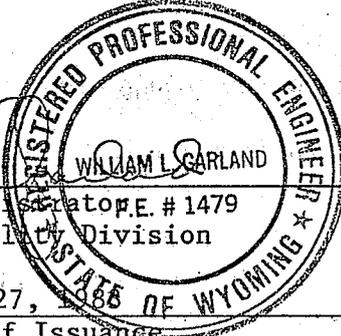
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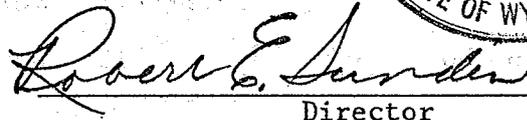
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AUTHORIZED BY:


Admin. # E. # 1479
Water Quality Division
July 27, 1988
Date of Issuance




Director
Dept. of Environmental Quality



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

CONDITIONS

1. The application materials indicate that this main is intended to serve as a stock water supply. No other use of this main shall be made until adequate pressure to the main is supplied by the Pine Haven Improvement and Service District, in accordance with the requirements of the Water Quality Division.
2. A six inch (6") air gap shall be maintained at the termination of the main, where water enters the stock watering facilities. No direct connection between the public water supply and any stock watering facility shall be constructed.

cc: Ralph Goodson
Bearlodge Engineering
P.O. Box 130
Sundance, WY 82729

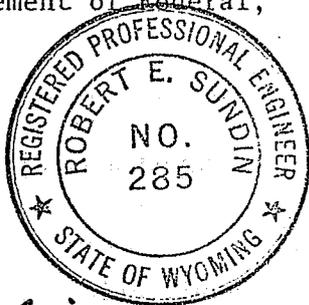
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The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted 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 L. Garland
WILLIAM L. GARLAND
Administrator 479
Water Quality Division
September 10, 1989
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 either:

- a) Construct all of the septic wastewater systems described on the approved drawings within the three (3) year period of this Permit to Construct, or
- b) Apply for a modification of this Permit, in order to reduce the extent of the wastewater system, within the three year period.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Paradise Ranch Water and Sewer Systems

ARCHITECT OR ENGINEER: Allen Foster
Hoskins-Western-Sonderegger
1823 West Main
Rapid City, South Dakota 57701

WATER QUALITY DIVISION
REFERENCE NUMBER: 83-333

REVIEWING ENGINEER: Tom Mueller *TMM*

DATE OF REVIEW: July 22, 1983

ACTION: Not Authorized for Construction

COMMENTS:

1. A septic tank detail drawing must be provided for the new tank.
2. A detail drawing of the diversion structure in manhole number 1 must be provided.
3. Better pipe-laying specifications must be provided for the sewer system. At a minimum, they must include the following:
 - bedding and backfill to be provided.
 - infiltration/exfiltration testing.
 - alignment testing.
4. The new sewage leach field will have to be constructed before the permit term (maximum of five years) expires. The alternative is application for a revised permit, based on actual flows, at a later date.
5. Better pipe-laying specifications for the water system must be provided. At a minimum, they must include the following:
 - bedding and backfill to be provided.
 - minimum depth of bury to prevent freezing.
 - thrust block details.
 - pressure/leakage testing (AWWA C600 or equivalent).
 - disinfection (AWWA C601 or equivalent).

83-333

July 22, 1983

Page Two

6. The water system hydropneumatic tanks must provide a total capacity of approximately 350 gallons. Please verify this.
7. The hydropneumatic tanks must have some type of equipment to positively maintain air space. Diaphragm tanks will be accepted; however, this is not considered good design unless the tanks can be pressurized before admitting water into them.

Water Quality Division
Groundwater Section
Permit Application Review

*Not
returning to
Sheridan*

Application Number 83-333 (ref 82-430)

Date Submitted For Review 6/28/83

Name and Location of Facility Paradise Guest Ranch
T51N R84W S34
Buffalo Wyo.
Johnson Co.

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

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

Signed Richard J. Hennep
Title Eng. Eval.
Date 6-28-83

Approved 6/28/83
(Date)

[Signature]
(Signed)
Groundwater Control Supervisor

6-30-83

Review of Plans and Specifications

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

PROJECT: Dean Price Residences, Albany Co.

ARCHITECT OR ENGINEER: None

APPLICANT: Dean G. Price
12071 W. Dakota Dr., Lakewood, CO 80228

WATER QUALITY DIVISION REFERENCE NUMBER: 83-335

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

DATE OF REVIEW: June 29, 1983

ACTION: NOT AUTHORIZED FOR CONSTRUCTION

COMMENTS:

1. Wyoming regulations require that a Wyoming registered engineer sign the plans and specifications for all wastewater facilities that are not for a single family house on a single septic system. The combination of your cabin and home requires a registered engineer's signature. Two options are possible to eliminate the engineering requirement.
 - a. Construct separate septic systems for the cabin and the house.
 - b. Connect the cabin to the septic system and then once the house is constructed, disconnect both the water and the sewer to the cabin and hook up the house.
2. The depth to the seasonal high groundwater and bedrock must be known. A minimal four feet separation is required between the bottom of the stone in the trench and to these restricting layers.
3. The absorption area is inadequate. Based on four bedrooms (3 in house, 1 in cabin) at 10 minutes per inch percolation rate, 660 square feet of trench bottom area is required. Your proposed system only has 315 square feet of trench area (210 lineal feet of trench times 1.5 feet wide = 315 square feet). Only the area beneath the stone is eligible.



Department of Environmental Quality

Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

July 5, 1983

Mr. Ron Spicer
Trailside Cafe
Moneta Route
Casper, WY 82601

RE: Trailside Cafe and Lounge
Wastewater Disposal Facility #83-336R

Dear Mr. Spicer:

A review of the "as built" plans of the wastewater disposal facility serving the Trailside Cafe and Lounge has been completed. Based upon these plans, it appears the facility meets minimum design standards as defined by the State of Wyoming.

You should retain this letter as proof of acceptance of the system. This department ~~considers the case closed.~~

Yours truly,

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

Francis LaBarge
Northwest District Supervisor

FL:dcn

cc: Jake Strohman - Cheyenne DEQ/WQD
Ray Price - Fremont County Planning Office
Jerald Crews - Cardinal Engineering

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Trailside Cafe Wastewater Disposal System

ENGINEER: J. B. Crews
Cardinal Engineering
2334 Rose Lane
Riverton, WY 82501 (Certified Mail No. P 323 732 125)

OWNER: Ron Spicer
Trailside Cafe
Moneta Route
Casper, WY 82601 (Certified Mail No. P 323 732 126)

WATER QUALITY DIVISION REFERENCE NUMBER: 83-336

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: June 29, 1983

ACTION: "AS BUILTS" Not Approved

COMMENTS: A review of the "as built" plans has been completed and it has been determined the following additional information is needed:

1. In the design data it is stated that the gravel depth below the leach field piping is 0.7 feet but the trench detail shows 1.3 feet. This discrepancy needs to be corrected.
2. What is the slope of the leach field piping?
3. The slope of the future line from the lounge needs to be specified.
4. A cleanout detail is needed for the existing and proposed cleanouts.

Please submit the required information and revised plans, in triplicate, to this office within seven (7) days of your receipt of this letter. If you have any questions, please call me.

FL:crb

AC

8-4-83

PERMIT TO CONSTRUCT

New
 Renewal
 Modified

Permit No. 83-337R
*SEE CONDITION ON PERMIT *

CLARK'S MONETA SERVICE
WASTEWATER DISPOSAL SYSTEM
(Name of Facility)

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

Bill Lawrence

Moneta Route

Casper, WY 82601

to construct, install, or modify a sewage collection system, 3 septic tanks, disposal bed and reclamation of existing non-complying facility

facility according to the procedures and conditions of the application No. 83-337R. The facility is located in

Section 23, T37N, R91W

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

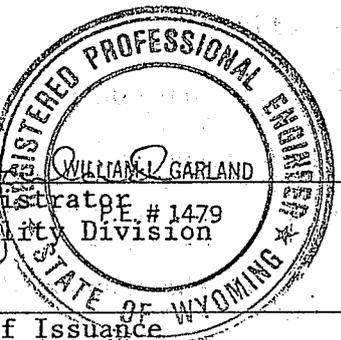
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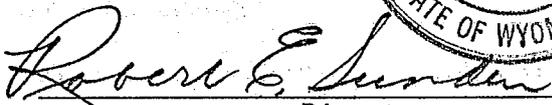
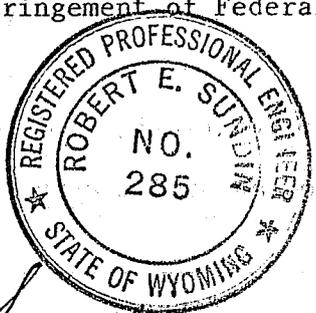
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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


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



ROBERT E. SUNDER
Director
Dept. of Environmental Quality


July 29, 1983

Date of Issuance

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

* CONDITION OF PERMIT *

The permittee shall notify representatives of the Fremont County Planning Department and the Department of Environmental Quality of the day construction is scheduled to commence and the estimated completion date of this project. Final inspection of the installed system is required prior backfilling. The authorized representative in your area can be contacted at the following addresses:

Ray Price
Fremont County Planning Department
Courthouse Building, Room 200
Lander, WY 82520

Francis LaBarge, P.E.
Department of Environmental Quality
Water Quality Division
210 Lincoln Street
Lander, WY 82520

FL:dcn



Department of Environmental Quality
Water Quality Division

210 LINCOLN STREET

LANDER, WYOMING 82520

TELEPHONE 307-332-3144

July 29, 1983

CERTIFIED MAIL #P 289 233 560

Mr. Delbert Clark
Rural Route No. 3
Bloomfield, Iowa 52537

RE: Clark's Moneta Service Wastewater
Disposal System, DEQ Reference
No. 83-337R

Dear Mr. Clark:

The purpose of this letter is to inform you that this Department has approved the plans and specifications for the new sewage disposal system to serve Clark's Moneta Service. Permit to Construct Number 83-337R is currently being processed and when the signed permit is received by this office, it and a copy of the authorized plans will be forwarded to your engineer. This process normally takes two to three weeks. It will be necessary for you to contact your engineer, Mr. Gerald Crews, to obtain a copy of the authorized plans and permit.

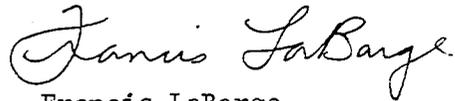
A condition of your permit is that you notify the Fremont County Planning Office and me of the day construction is scheduled to commence and the estimated completion date of the project. Final inspection of the installed system is required prior to backfilling.

Because of the potential health hazards the existing system presents to the public and neighbors, this Department has determined the new system must be installed, inspected and in operation no later than September 15, 1983. Extreme care must be taken on your part to insure that the system is constructed in accordance with the authorized plans and specifications. Failure to do so is a permit violation and could result in an enforcement action.

Mr. Delbert Clark
July 29, 1983
Page Two

Assuming the facility is properly constructed, inspected, in operation and the existing facilities have been reclaimed by September 15, 1983, this office will consider the case closed. If you have any questions, please contact me at this office.

Yours truly,



Francis LaBarge
Northwest District Supervisor

FL:dcn

cc: Jake Strohman--Cheyenne DEQ/WQD
Ray Price--Fremont County Planning Office
Gerald Crews--Cardinal Engineering
Bill Lawrence--Manager
Bill George--Department of Health and Social Services

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

CERTIFIED MAIL P 323 732 177

PROJECT: Clarks Moneta Service Wastewater Disposal System

ENGINEER: J. B. Crews
Cardinal Engineering
2334 Rose Lane
Riverton, WY 82501

OWNER: Delbert Clark
Rural Route No. 3
Bloomfield, Iowa 52537 (Certified Mail P 323 732 124)

WATER QUALITY DIVISION REFERENCE NUMBER: 83-337

REVIEWING ENGINEER: Francis LaBarge *FL*

DATE OF REVIEW: June 30, 1983

ACTION: Not authorized.

COMMENTS: A review of the plans and specifications for the new wastewater disposal system has been completed. Before the plans can be authorized for construction, the following items need to be addressed:

1. The Application for Permit to Construct . . . form must be signed by the owner of the facility (i.e., Mr. Clark) unless documentation is provided that Mr. Lawrence is responsible for the construction in compliance with the permit and that he is responsible for all operational conditions which may be imposed.
2. A sewer service line detail is required for the proposed future mobile home.
3. Please show the sewer service line for the motel on the plan sheet.
4. A cleanout is needed in the septic tank influent line. It should be located above the service line connections.
5. A cleanout detail is needed.
6. Are any meals served in the lounge? If so, consideration should be given to a grease trap. If one is to be provided outside the building, please provide sizing calculations and details.
7. We are requiring that the existing 36 inch CMP be removed as it represents a potential health hazard. This needs to be called out in the specifications or on the plans.
8. A septic tank volume of at least 2340 gallons is required.

ABC

Review of Plans and Specifications

Clarks Moneta Service #83-337

June 30, 1983

Page 2

9. The slope of the septic tank effluent line needs to be specified.
10. The plans should call for the surface of the disposal bed to be revegetated with native grasses.
11. After construction of the new system is complete, it will be required that the liquid contents of the existing pit be pumped into the septic tanks before it is filled in. This needs to be addressed.
12. What is the ground slope in the area of the proposed disposal bed?
13. Are there any waterlines within 25 feet of the proposed septic tanks or disposal bed.
14. What is the length of the septic tank effluent pipe to the disposal bed header?

Please submit the required information and revised drawings, in triplicate, to this office within seven (7) days of your receipt of this letter. If you have any questions, please call me.

FL:crb

cc: Bill Lawrence

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-338

HYATTVILLE ELEMENTARY SCHOOL WASTEWATER TREATMENT FACILITY
(Name of Facility)

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

Big Horn County School District No. 4
P. O. Box 151
Basin, WY 82410

to construct, install, or modify a septic tank, leach field and appurtenances

_____ facility according to the procedures and conditions of the application No. 83-338. The facility is located in _____

Sec. 1, T49N, R90W

_____ in the County of Big Horn,

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

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

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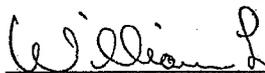
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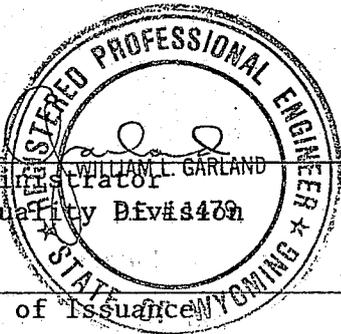
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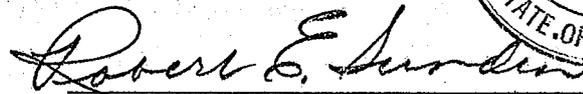
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AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator
Water Quality Division 3479

June 30, 1983

Date of Issuance



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

Director
Dept. of Environmental Quality

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

FL:crb

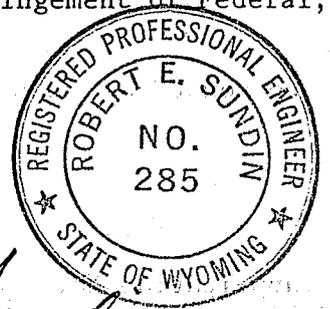
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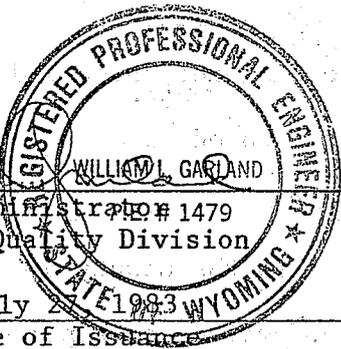
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AUTHORIZED BY:




William L. Garland

Admin. Str. # 1479
Water Quality Division
July 2, 1983

Date of Issuance

Robert E. Sundin

Director
Dept. of Environmental Quality

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

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

CAP Engineering
P.O. Box 4416
Gillette, WY 82716

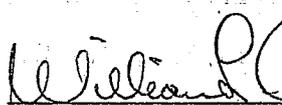
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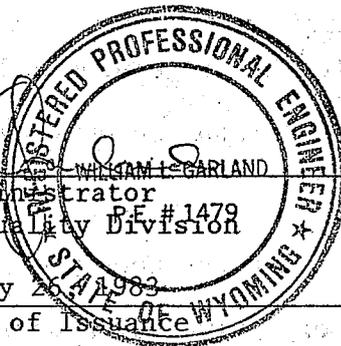
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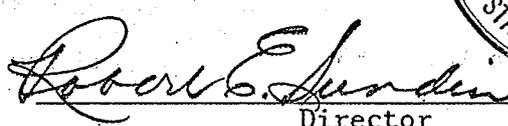
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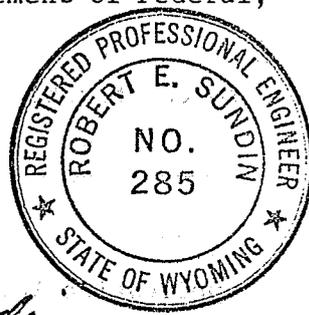
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

AUTHORIZED BY:



WILLIAM L. GARLAND
Administrator
Water Quality Division
P.E. #1479
July 2, 1983
Date of Issuance




ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

xc: McDill Engineering
400 W. Boxelder Road
Gillette, WY 82716

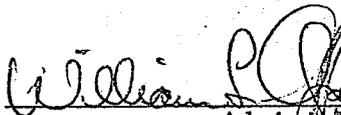
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

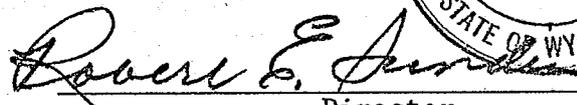
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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AUTHORIZED BY:


P.E. # 1479
ADMINISTRATOR
WILLIAM L. GARLAND
Water Quality Division
8/9/83
Date of Issuance



Director
Dept. of Environmental Quality


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

7-19-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-342
SEE SPECIAL CONDITION

Moreford Tracts
(Name of Facility)

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

Cheyenne Board of Public Utilities

2100 Pioneer Avenue

Cheyenne, WY 82003

to construct, install, or modify a potable water distribution main and sanitary sewer facility according to the procedures and conditions of the application No. 83-342. The facility is located in Section 27, 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.

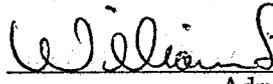
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

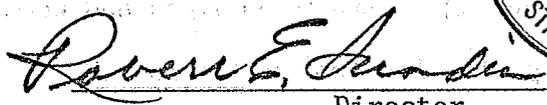
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrative # 1479
Water Quality Division
STATE OF WYOMING
July 8, 1988
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: Jon L. Anderson
AVI, P.C.
7300 Yellowstone Road
Cheyenne, WY 82009

Condition to Permit to Construct

The sewer line shall be shortened to 150 feet per the revision by Jon Anderson, AVI, P.C.

7-11-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-343
SEE SPECIAL CONDITION

South Coffman Relief Sewer
(Name of Facility)

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

Casper Board of Public Utilities
200 N. David Street
Casper, WY 82601

to construct, install, or modify a sanitary sewer facility according to the procedures and conditions of the application No. 83-343. The facility is located in Sections 8, 17 and 20, T33N, R79W in the County of Natrona, in the State of Wyoming.

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

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

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

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

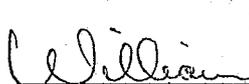
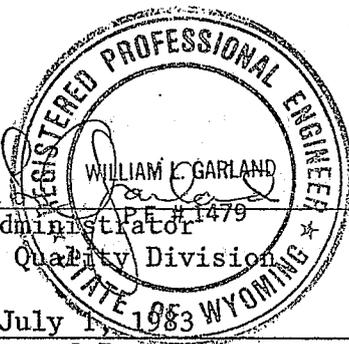
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

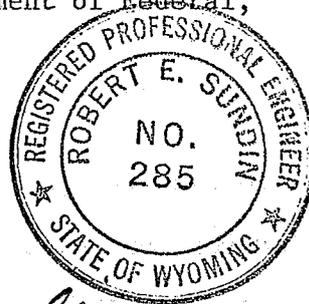
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



WILLIAM L. GARLAND
PE # 1479
Administrator
Water Quality Division
STATE OF WYOMING
July 1, 1983
Date of Issuance



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

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

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

Condition to Permit to Construct

The sewer grade between station 64+00 and 65+40 is incorrect.

7-2-83

PERMIT TO CONSTRUCT

Permit No. 83-344R

- New
 Renewal
 Modified

Banner Construction Camp Wastewater System
(Name of Facility)

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

Forrest M. Kepler, Jr.

Banner Associates, Inc.

P.O. Box 550

Laramie, WY 82070

to construct, install, or modify a commercial subsurface wastewater treatment and disposal system for 30 person construction camp facility according to the procedures and conditions of the application No. 83-344R. The facility is located in Hog Park Reservoir, NE1/4 Section 1, T12N, R85W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

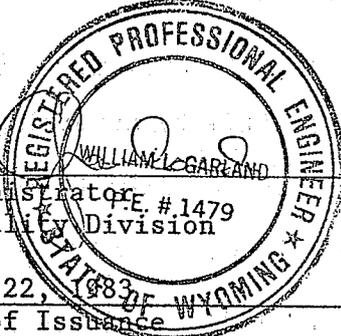
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

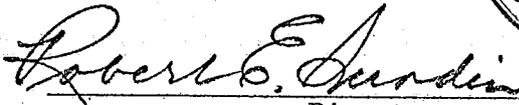
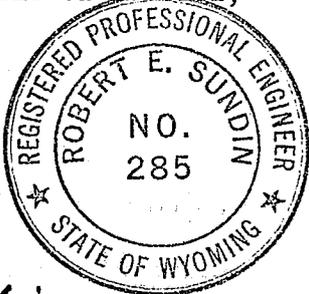
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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AUTHORIZED BY:



Administrator
Water Quality Division
E. #1479
July 22, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

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

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

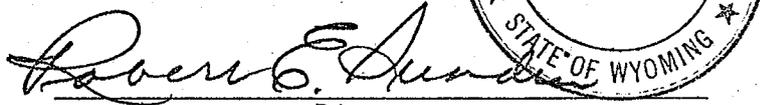
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 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
Water Quality Division
STATE OF WYOMING
April 17, 1984
Date of Issuance


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

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

CONDITIONS

1. The permittee shall secure the services of a qualified, independent construction inspector, soils scientist, or engineer to be present during all construction at the lagoon site proper, to determine compliance with those sections of the specifications dealing with a) installation of the compacted clay liner; and b) placement, moisture control, and compaction requirements for all fills. Permittee shall also cause a report to be submitted, by such independent observer, to the Water Quality Division at the address below, stating the extent of compliance or non-compliance of the facilities with the specifications, within thirty (30) days of the time construction is completed or wastewater is introduced into the ponds, whichever is earlier.

Water Quality Division
Attn: Tom Mueller
2161 Coffeen Ave., Suite 301
Sheridan, Wyoming 82801

2. These lagoons are to be used solely for the purposes described in the application, i.e., the evaporative disposal of produced water.
3. There shall be no discharge of any fluid from these facilities to the surface waters of the State of Wyoming under any circumstances.

THE STATE



OF WYOMING

Norma

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

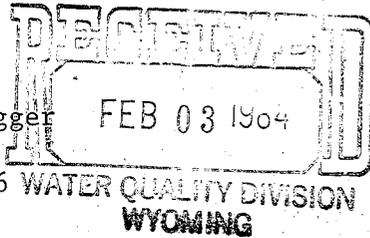
SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

February 1, 1984

CERTIFIED

Mr. Randy Pellatz
Hoskins-Western-Sonderegger
P.O. Box 2020
Gillette, Wyoming 82716



Dear Mr. Pellatz:

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

Facility name:	<u>Cannon Land & Livestock Production Water Disposal Lagoons</u>
DEQ/WQD Reference Number:	<u>83-345</u>
Engineering Consultant:	
DEQ/WQD Review Engineer:	
Date of DEQ/WQD Review:	

Please indicate by _____
office:

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Copy to e.
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Water Quality Division
Groundwater Section
Permit Application Review

Plans
to
Sheridan
4-10-84

Application Number 83-345 R

Date Submitted For Review 3-15-84

Name and Location of Facility Cannon Land + Livestock
Production Water Disposal Lagoons

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. Russell

Title _____

Date 4-3-84

Approved 4/10/84
(Date)

[Signature]
(Signed)
Groundwater Control Supervisor



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: File

FROM: Phil Pucel

DATE: April 9, 1984

SUBJECT: Cannon Land and Livestock Production Water Disposal Lagoons

General Comments

The resubmittal application is lacking information on both local hydrology and liner suitability as requested in the August 10, 1983 review by the Water Quality Division Groundwater Section. The importance of this information cannot be overemphasized in assessing site suitability and the feasibility of the construction of wastewater ponds. These review comments are largely based upon "Lining of Waste Impoundment and Disposal Facilities," EPA, SW-870, March, 1983, revised edition.

Groundwater Investigation

The revised application offers no new information on the depth to shallow groundwater at the site. The well log showing first water at 680 feet is not sufficient to allow an assessment of groundwater conditions.

Liner Testing Model

The testing model used to demonstrate the permeability of the clay liner does not provide conclusive results with respect to the following concerns:

- 1) The effects on the clay due to long-term exposure to wastewater and weather are unknown;
- 2) The elevated testing pressure, 90 psi, compacts the clay materials and reduces permeability to levels below what would be expected during pond use. Referring to the EPA manual (page 52) mentioned earlier: "Often, column experiments are performed at unreasonably large hydraulic gradients. It is unlikely that reducing the residence time of a particular solute will result in data directly transferable to the field, although the provision is made to assess

Memo To: File
Page Two
April 9, 1984

the soil/solute reaction as a function of the number of pore volumes (Fuller, 1978)." Another reference is made on page 61: "A more drastic effect in changing the K value is obtained with some clay soils when the gradient is increased to the extent that it induces total separation of clay particles and causes migration of colloidal clay, which subsequently plugs some of the pores."

- 3) Logs of observations and results of testing were not provided. In particular, an evaluation should be made of changes in structure and mineralogy of the clay materials. Did channels form? Was there any cracking?
- 4) The lack of leachate production and analysis does not allow adequate evaluation of the attenuative capacity of the liner materials.

Liner Maintenance

How will the liner be maintained during the operating life of the facility? If the pond liner cracks or changes structurally in any way, what provisions are afforded to correct the problems? Is there a maintenance and inspection schedule?

Summary

The information provided does not definitively demonstrate the adequacy of the liner design and performance. The most obvious shortcomings are the lack of information on waste/liner compatibility; non-transferable test results; wastewater characterization; and liner maintenance. Also information on local groundwater conditions is lacking.

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Cannon Land & Livestock Production Water Disposal Lagoons

ARCHITECT OR ENGINEER: Randy Pellatz
Hoskins-Western-Sonderegger
P.O. Box 2020
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 83-345

REVIEWING ENGINEER: Tom Mueller *TMM*

DATE OF REVIEW: 8/17/83

ACTION: Not Authorized for Construction

COMMENTS:

1. Please indicate how natural runoff will be prevented from flooding the lagoons, ponding behind the dikes, or washing against the dikes.

2. The following comments are condensed from the WQD Groundwater Section review of this project.

a) Statement No. 1 of the "Recommendations and Conclusions" in attachment II has not been documented. It has not been shown that "sufficient unsaturated thickness (greater than 40 feet) of fine-grained sediments occur at the proposed site to protect local aquifer units." The exploratory holes are only 20 feet deep, and indicate a fairly uniform sand layer of unknown thickness, underlying almost the entire site, and of a permeability which does not afford aquifer protection. The well log supplied (JW 45114) is for territory approximately $\frac{1}{2}$ mile away, and should not be counted on to indicate such shallow zones. In summary, without more specific information on the shallowmost groundwater underlying the site, maximum precautions must be taken to prevent infiltration of the wastewater.

b) The ability of the proposed clay liner to maintain the design permeability, when exposed to the wastewater in question over the anticipated life of the ponds must be demonstrated. A suitable demonstration would be measurement of saturated permeability, using a laboratory triaxial device, after passing several pore volumes of wastewater through a properly compacted clay sample.

c) State Engineer records show two wells within $\frac{1}{2}$ mile of the site which have not been identified in the application. These are UW 22359 in T36, R71, Section 34 and UW 60047 in T35, R71, Section 2. All wells within $\frac{1}{2}$ mile of the site perimeter should be identified on a map and information such as depth, etc. should be provided.

d) The specifications must include testing requirements for the liner, to assure that design compaction and permeabilities are achieved. Again, triaxial testing of an undisturbed liner sample appears to be appropriate for permeability.

e) Part 2.01(B) of Section 02590 should be stricken from the specifications, as no soil sealant additives are proposed for the lagoon liner.



Comments
& plans to
Sheridan
8-12-83

Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: A.J. Mancini

FROM: Phil Pucel, Bill Ewen *PP*

DATE: August 10, 1983

SUBJECT: Permit Application #83-345; Cannon Land and Livestock
Produced Water Disposal Lagoons, Converse County

1. The effectiveness of the proposed clay liner in maintaining its design permeability to the disposed fluids for the life of the pond needs to be evaluated. The evaluation should include measurements of the changes in saturated permeability and mineralogy over time as the clay is exposed to the wastewater. Triaxial devices could be used in the lab for the permeability measurements. At least 10 pore volumes should be passed through the clay during this testing.

2. What is the source(s) of the high barium and flouride concentrations in the produced water analyses?

3. Typical concentrations of organics, oil and grease, and phenols need to be determined for the expected wastewater.

4. Statement No. 1 of the "Recommendations and Conclusions" in Attachment II has not been documented. It has not been shown that "sufficient unsaturated thickness (greater than 40 feet) of fine-grained sediments occur at the proposed site to protect local aquifer units." The exploratory holes are only 20 feet deep and no nearby well logs exist to confirm the depth to local aquifer units. (The nearest well log (UW 45114) is over ½ mile from the site and could not be counted on anyway to tag shallow zones of low productivity groundwater.)

5. What precautions will be taken to maintain the clay liner with respect to preventing drying and cracking of the clay and in preventing wash out of the liner from wave action?

6. State Engineer records show two wells within ½ mile of the site which have not been identified in the application. These are UW 22359 in T36, R71, Section 34 and UW 60047 in T35, R71, Section 2. All wells within ½ mile of

Memo to A.J. Mancini
Page Two
August 10, 1983

the site perimeter should be identified on a map and information such as depth, etc. should be provided.

7. Construction specifications should list the maximum permeability that will be allowed in the material that will be used as liner.

8. Specifications: Section 02590 Part 2.01(B) makes no sense. I can find no details on "soil sealant additives" in 3.07(F) or Section 01010.

9. In summary, without more specific information on the shallowmost groundwater underlying the site, maximum precautions must be taken to prevent infiltration of the wastewater.

4-25-84

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-346R
SEE CONDITIONS

LeBAR RANCH PRODUCED WATER DISPOSAL SITE

(Name of Facility)

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

Jim's Water Service
c/o Hoskins-Western-Sonderegger, Inc., P.O. Box 2020
Gillette, Wyoming 82716

to construct, install, or modify a system of evaporative lagoons for disposal of wastewater produced in conjunction with oil and gas production

facility according to the procedures and conditions of the application No. 83-346R. The facility is located in Sec. 34, T.35N., R.69W.

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

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

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

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

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

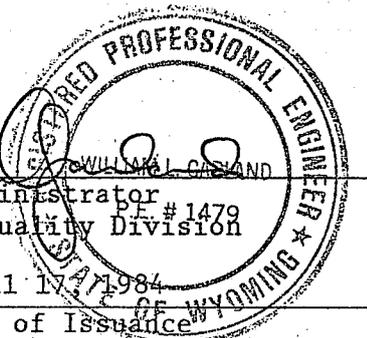
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

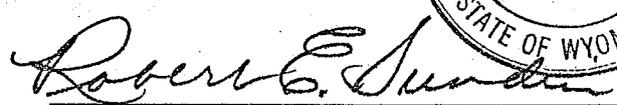
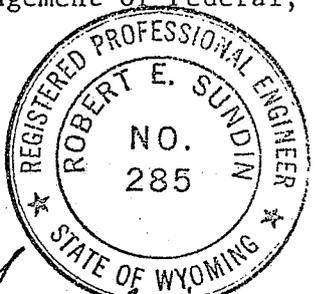
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State of Wyoming, Department of Environmental Quality, Water Quality Division, 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 J. CLEVELAND
Administrator
Water Quality Division
PE # 1479
April 17, 1984
Date of Issuance



ROBERT E. SUNDIN
Director
Dept. of Environmental Quality


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

CONDITIONS

1. The permittee shall secure the services of a qualified, independent construction inspector, soils scientist, or engineer to be present during all construction at the lagoon site proper, to determine compliance with those sections of the specifications dealing with a) installation of the compacted clay liner; and b) placement, moisture control, and compaction requirements for all fills. Permittee shall also cause a report to be submitted, by such independent observer, to the Water Quality Division at the address below, stating the extent of compliance or non-compliance of the facilities with the specifications, within thirty (30) days of the time construction is completed or wastewater is introduced into the ponds, whichever is earlier.

Water Quality Division
Attn: Tom Mueller
2161 Coffeen Ave., Suite 301
Sheridan, Wyoming 82801

2. These lagoons are to be used solely for the purposes described in the application, i.e., the evaporative disposal of produced water.
3. There shall be no discharge of any fluid from these facilities to the surface waters of the State of Wyoming under any circumstances.

Plans to
Sheridan
4-10-84

Water Quality Division
Groundwater Section
Permit Application Review

Application Number 83-346 R

Date Submitted For Review 3-12-84

Name and Location of Facility Le Bar Ranch Site
Wastewater Treatment Facility

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. Patel

Title _____

Date 4-3-84

Approved 4/10/84
(Date)

ajm
(Signed)
Groundwater Control Supervisor



Department of Environmental Quality
Water Quality Division

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: File

FROM: Phil Pucel

DATE: April 9, 1984

SUBJECT: LeBar Ranch Site

General Comments

The resubmitted application does not adequately address the comments of the groundwater section, dated August 10, 1983, and the condensed comments of August 19, 1983 (attached). The importance of determining liner/waste compatibility and permeability changes due to exposure to wastes is repeatedly explained in "Lining of Waste Impoundment and Disposal Facilities," EPA, SW-870, March 1983, Revised Edition. This manual is a guideline for the appropriate design considerations of wastewater ponds.

Liner Testing Model

The testing model used to demonstrate the permeability of the clay liner does not provide conclusive results with respect to the following concerns:

- 1) The effects on the clay due to long-term exposure to wastewater and weather are unknown;
- 2) The elevated testing pressure, 90 psi, compacts the clay materials and reduces permeability to levels below what would be expected during pond use. Referring to the EPA manual (page 52) mentioned earlier: "Often, column experiments are performed at unreasonably large hydraulic gradients. It is unlikely that reducing the residence time of a particular solute will result in data directly transferable to the field, although the provision is made to assess the soil/solute reaction as a function of the number of pore volumes (Fuller, 1978)." Another reference is made on page 61: "A more drastic effect in changing the K value is obtained with some clay soils when the gradient is increased to the extent that it induces total separation of clay particles and causes migration of colloidal clay, which subsequently plugs some of the pores."

Memo To: File
Page Two
April 9, 1984

- 3) Logs of observations and results of testing were not provided. In particular, an evaluation should be made of changes in structure and mineralogy of the clay materials. Did channels form? Was there any cracking?
- 4) The lack of leachate production and analysis does not allow adequate evaluation of the attenuative capacity of the liner materials.

Liner Maintenance

How will the liner be maintained during the operating life of the facility? If the pond liner cracks or changes structurally in any way, what provisions are afforded to correct the problems? Is there a maintenance and inspection schedule?

Summary

The information provided does not definitively demonstrate the adequacy of the liner design and performance. The most obvious shortcomings are the lack of information on waste/liner compatibility; non-transferable test results; wastewater characterization; and liner maintenance. Also, questions remain with respect to the source of the high barium and fluoride concentrations in the produced water analyses.

Norma

THE STATE



OF WYOMING

ED HERSCHLER
GOVERNOR

Department of Environmental Quality

Water Quality Division

2161 COFFEEN AVENUE,
SUITE 301

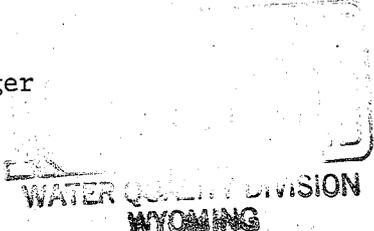
SHERIDAN, WYOMING 82801

TELEPHONE 307-672-6457

February 1, 1984

CERTIFIED

Mr. Randy Pellatz
Hoskins-Western-Sonderegger
P.O. Box 2020
Gillette, Wyoming 82716



Dear Mr. Pellatz:

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

Facility name:	<u>Jim's Water Service LeBar Ranch Site Production Water Disposal Lagoons</u>
DEQ/WQD Reference Number:	<u>83-346</u>

REVIEW OF PLANS AND SPECIFICATIONS

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

PROJECT: Jim's Water Service LeBar Ranch Site,
Production Water Disposal Lagoons

ARCHITECT OR ENGINEER: Randy Pellatz
Hoskins-Western-Sonderegger
P.O. Box 2020
Gillette, WY 82716

WATER QUALITY DIVISION REFERENCE NUMBER: 83-346

REVIEWING ENGINEER: Tom Mueller *TJM*

DATE OF REVIEW: 8/19/83

ACTION: Not Authorized for Construction

COMMENTS:

1. The drawings indicate that if the valve between Cells C & D were inadvertently left open, overtopping of Cell D could result. Please indicate what, if any, non-operational measures could be used to prevent this.

2. The following comments are condensed from the WQD Groundwater Section review of this project.

a) The ability of the proposed clay liner to maintain the design permeability, when exposed to the wastewater in question over the anticipated life of the ponds must be demonstrated. A suitable demonstration would be measurement of saturated permeability, using a laboratory triaxial device, after passing several pore volumes of wastewater through a properly compacted clay sample.

b) The specifications must include testing requirements for the liner, to assure that design compaction and permeabilities are achieved. Again, triaxial testing of an undisturbed liner sample appears to be appropriate for permeability.

c) Part 2.01(B) of Section 02590 should be stricken from the specifications, as no soil sealant additives are proposed for the lagoon liner.



*Comments
& plans to
Sheldon
8-12-83*

*Department of Environmental Quality
Water Quality Division*

1111 EAST LINCOLNWAY

CHEYENNE, WYOMING 82002

TELEPHONE 307 777-7781

M E M O R A N D U M

TO: A.J. Mancini
FROM: Phil Pucel, Bill Ewen *pp*
DATE: August 10, 1983
SUBJECT: Permit Application #83-346; Le Bar Ranch Site Produced
Water Disposal Lagoons, Converse County, Sec. 34, R35N, T69W

1. The effectiveness of the proposed clay liner in maintaining its design permeability to the disposed fluids for the life of the pond needs to be evaluated. The evaluation should include measurements of the changes in saturated permeability and mineralogy over time as the clay is exposed to the wastewater. Triaxial devices could be used in the lab for the permeability measurements. At least 10 pore volumes should be passed through the clay during this testing.
2. What is the source(s) of the high barium and flouride concentrations in the produced water analyses?
3. Typical concentrations of organics, oil and grease, and phenols need to be determined for the expected wastewater.
4. What precautions will be taken to maintain the clay liner with respect to previnting drying and cracking of the clay and in preventing wash out of the liner from wave action?
5. Construction specifications should list the maximum permeability that will be allowed in the material that will be used as a liner.
6. Specifications: Section 02590 Part 2.01(B) is unclear. There are no details on "soil sealant additives" in 3.07(F) or Section 01010.

8-2-83

PERMIT TO CONSTRUCT

New

Permit No. 83-347R

Renewal

Modified

Johnson Brother's Construction Camp Wastewater System
(Name of Facility)

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

Lynn Johnson

J B C of Wyoming Corporation

P.O. Box 22

Encampment, WY 82325

to construct, install, or modify a commercial subsurface wastewater treatment and disposal system for 60 person temporary construction camp facility according to the procedures and conditions of the application No. 83-347R. The facility is located in Hoy Park Reservoir, SW1/4 Section 6, T12N, R84W in the County of Carbon, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

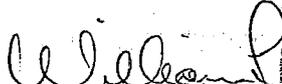
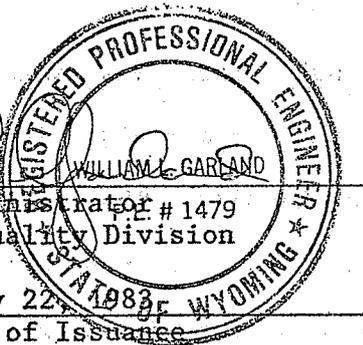
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

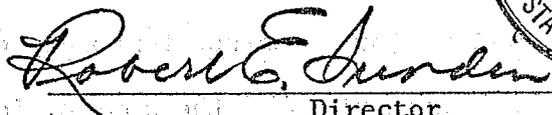
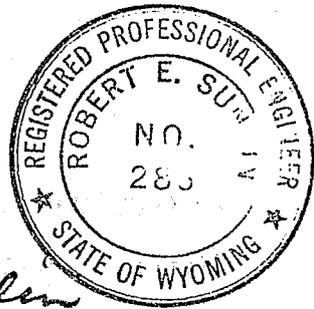
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:



Administrator # 1479
Water Quality Division
July 22, 1983
Date of Issuance



Director
Dept. of Environmental Quality

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

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

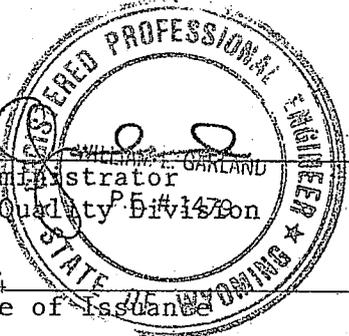
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

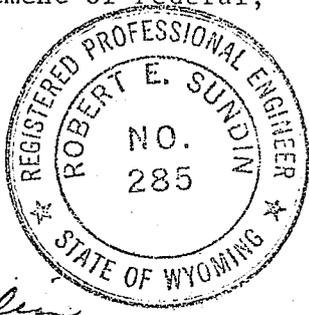
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


William P. Garland
Administrator
Water Quality Division
January 5, 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.

JH:dcn

MEMORANDUM

TO: Plans 83-348RR
FROM: Jeff Hermansky *Jeff*
DATE: December 27, 1983
SUBJECT: Phone Review - East Gas Hills Heap Leach 30

On December 27, 1983 I spoke with John Coulthard of the Union Carbide environmental staff.

I asked John if there was a potential freezing problem with the 3" lines that run from the ponds to and from the mill. John said that the leachate is predominately kerosene. Furthermore, the leaching operation is conducted only during the warmer months.

I then asked John to send 2 additional copies of plan sheets A-12-82-6 and A-12-83-13. Only one copy of each was sent in the last submittal.

JH:dcn

REVIEW OF PLANS AND SPECIFICATIONS
WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: Union Carbide - East Gas Hills Heap Leach 30

ENGINEER: George L. Hoffman
Hydro-Engineering
770 East Magnolia
Casper, WY 82604

OWNER: Union Carbide Corporation
P. O. Box 5100
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: #83-348R

REVIEWING EVALUATOR: Jeff Hermansky



DATE OF REVIEW: November 16, 1983

NOTATION: Not authorized.

COMMENTS: Thank you for responding to Francis LaBarge's initial review of this project.

Although some of his comments have been satisfactorily addressed, I don't believe comments 3 and 4 have been answered properly.

1. There are no specifications for the drain line piping on either sheet A12-82-6 or A12-83-13.

2. The plans don't show the drain line route to the existing collection ponds that the active heap leach is using. Therefore, I don't really know where the drain line discharges. Are the collection ponds south of the proposed heap leach the ponds that will be used?

3. Where does the leachate from the heap leach piles go after the collection ponds? What materials are used for piping?

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

JH:dcn

AC

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY

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

PROJECT: East Gas Hills Heap Leach 30

ENGINEER: George L. Hoffman
Hydro-Engineering
770 East Magnolia
Casper, WY 82604

OWNER: P. J. L. Lyons, General Superintendent
Union Carbide Corporation
P. O. Box 5100
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: #83-348

REVIEWING ENGINEER: Francis LaBarge, Bill Ewen 

DATE OF REVIEW: July 28, 1983

ACTION: Not authorized.

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

1. Is construction of the facility complete? If not, what is the expected completion date?
2. Construction details and specifications for the heap base and clay liner extensions to the heap leach are needed. I realize your report references a previous Dames and Moore report on this subject, but this information must be included in this specific application.
3. Construction details and specifications are needed of the drain line modifications.
4. Where does the drain line discharge to?
5. The plans show a domestic water line running through the area of the proposed heap leach extension. This line will have to be relocated outside the extension area. If the line is part of a public water supply (i.e. the source serves 20 or more service connections) a construction permit will be required prior to relocation of the line.

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

FL:dcn

cc: Bill Ewen--Cheyenne DEQ/WQD

7-12-83

PERMIT TO CONSTRUCT

- New
- Renewal
- Modified

Permit No. 83-349R

Downey Addition
(Name of Facility)

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

John Tencick

206 South 3rd Street

Laramie, WY 82070

to construct, install, or modify a potable water distribution and sanitary sewer facility according to the procedures and conditions of the application No. 83-349R.

The facility is located in Section 28, T16N, R73W in the County of Albany, in the State of Wyoming. This permit shall be effective for a period of two (2) years (five (5) years maximum) from the date of issuance of this permit.

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

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

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

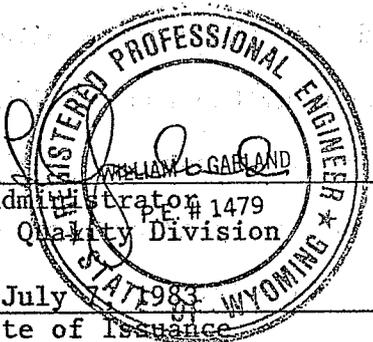
The permittee shall allow authorized representatives from the Department of Environmental Quality, Water Quality Division, upon the presentation of credentials and during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions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

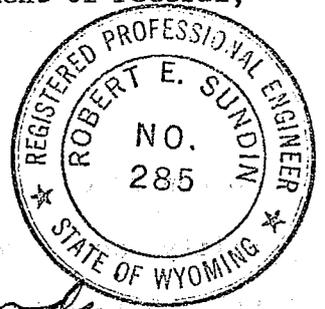
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


William L. Garland
Administrator # 1479
Water Quality Division
July 1983
Date of Issuance


Robert E. Sundin
Director
Dept. of Environmental Quality

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

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

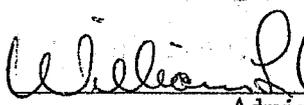
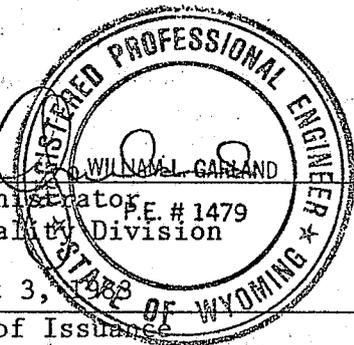
during working hours, to have access to inspect the facilities, at the above location, for the purpose of compliance with the provisions of this construction permit.

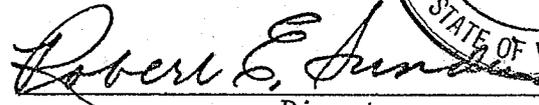
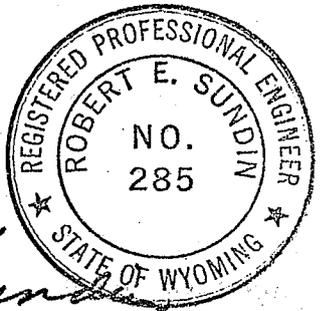
The permittee shall notify representatives from the Department of Environmental Quality, Water Quality Division the day construction commences and give an estimate of completion of the project. The authorized representative in your area can be contacted at the following address: District Engineer, State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

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

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

AUTHORIZED BY:


WILLIAM L. GARLAND
Administrator P.E. # 1479
Water Quality Division
August 3, 1988
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.

Water Quality Division
Groundwater Section
Permit Application Review

*Norma
Retur...*
Shonidan

Application Number 83-350

Date Submitted For Review 7/8/83

Name and Location of Facility AMAX COAL Co.
EB 68 Sediment Reservoir
Sec 9 T 51N R 72W
Campbell Co.

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

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

Signed Richard Lenny
Title Eng Eval.
Date 7/8/83

Approved 7/8/83
(Date)

[Signature]
(Signed)
Groundwater Control Supervisor

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
LABORATORY OF ORGANIC CHEMISTRY

1. *Reaction of 1,2-dibromoethane with sodium acetate*
2. *Reaction of 1,2-dibromoethane with sodium acetate*
3. *Reaction of 1,2-dibromoethane with sodium acetate*
4. *Reaction of 1,2-dibromoethane with sodium acetate*
5. *Reaction of 1,2-dibromoethane with sodium acetate*

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